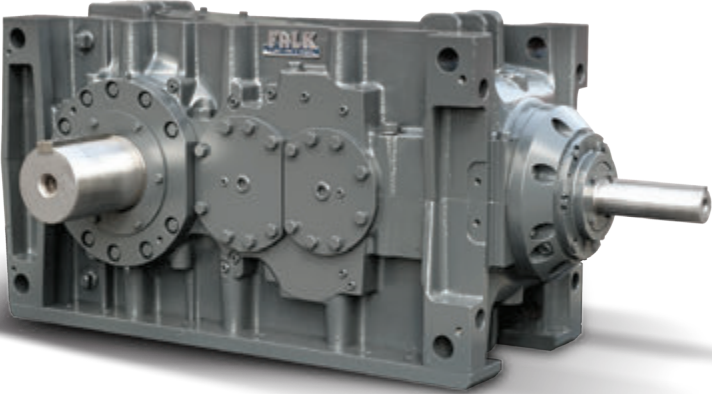




Falk V-Class Catalog

(Metric)



Selection Guide M171-110

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Factory Warranty We're so confident in the performance and reliability of our latest generation of Falk™ gear drives that we're backing this comprehensive offering with the best standard warranty in the business. Our full, three-year heavy-duty warranty provides shaft-to-shaft protection on all Falk components – including bearings and seals (warranty extends for three years from date of shipment). It's an industry first and one more powerful reason why Falk is your ultimate bottom-line value.

Basic Information

Safety Notes

Falk Gear Drives The Falk 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 mechanical service factor for the application. The customer must assume the responsibility of isolating the gear drive from any vibratory or transient load induced by the driven equipment.

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

People Conveying Equipment Selection of Falk 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 lift platforms and ski tows and ski lifts.

If the primary purpose of the application is material conveyance and occasionally people are transported, the Rexnord 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.

Gear Drive Mechanical Power Ratings Gear drive mechanical power ratings stated in this selection guide allow 100% overload for starting loads and momentary overloads associated with normal electric motor driven standard applications operating 10 hours per day under uniform conditions, applications where the recommended mechanical service factor per Page 3 or 4 of this selection guide is 1,00, and where the actual mechanical service factor of the gear drive versus full motor-rated power is equal to or greater than 1,00.

For other standard applications not meeting conditions stated in the previous paragraph, determine the appropriate mechanical service factor from Page 3 or 4, then calculate an equivalent power by multiplying the actual power transmitted by the previously determined mechanical service factor. For these applications, the mechanical power rating of the gear drive selected must equal or exceed the equivalent power that has been calculated.

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.

For non-standard applications, those where excessive overloads, reversing service, mechanical brakes, or oversize prime movers are present, refer to Page 2, Conditions Affecting Selection, for special instructions.

Gear Drive Basic Thermal Ratings Gear drive basic thermal ratings stated in this selection guide are based on the following assumed conditions:

Ambient temperature is 20°C (68°F).

Altitude is between sea level and 750 meters.

Ambient air velocity is between 0,5 m/s and 1,4 m/s typical of a large indoor room.

Duty cycle is continuous.

Orientation is floor-mounted with shafts in same horizontal plane.

Thermal Factors & Procedures, Page 6, permit the calculation of an application-adjusted thermal rating for the gear drive when local thermal conditions are different than those stated above. It is not necessary to apply the mechanical service factor to the basic thermal rating when determining the thermal adequacy of a gear drive.

Interpolation of Gear Drive Mechanical Power Ratings and Torque Ratings When the high-speed shaft rpm for an actual application falls between two tabulated high-speed shaft rpms found in the selection tables, interpolate to determine gear drive rating.

Stored and Inactive Drives Each gear drive is spin-tested with a rust-preventive oil that will protect parts against rust for a period of four months in an outdoor shelter, or 12 months in a dry building after shipment from the Factory.

Periodically inspect stored or inactive drives and spray internal parts with rust inhibitor every six months or more often, if necessary. Drain oil before adding rust inhibitor. Indoor dry storage is recommended.

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 above, if specified on the order.

Refer to Service Manual 128-014 for preparation of stored and inactive gear drives.

Conditions Affecting Selection

Non-Standard Selection Procedures

Some applications require special procedures, or refer to factory.

Excessive Overloads The maximum momentary or starting load applied to the gear drive must not exceed 200% of the rated load capacity of the gear drive (100% overload). Rated load capacity of the gear drive is defined as the power rating published in this selection guide with a mechanical service factor of 1.00. If the actual maximum momentary or starting load exceeds the conditions stated above, calculate an equivalent input power associated with the excessive overload by dividing the maximum overload by two. The gear drive selected must have a rated load capacity equal to or greater than the equivalent input power.

Frequency of Starts Starting frequency is an important consideration when selecting a gear drive. Applications involving two to three equally spaced starts per hour must utilize a minimum 1.5 service factor for unloaded starts, and a minimum 1.75 service factor for fully loaded starts. For applications involving more than three starts per hour, refer to factory application specifics such as starting frequency and maximum starting torque. The addition of a fluid coupling as a soft start device would increase the number of allowable starts.

Reversing Service Applications involving either more than 20 reversals per 10-hour period, or less than 20 reversals per 10-hour period with peak torques greater than 175% of normal load 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, select the gear drive based on the brake rating or the highest equivalent input power, 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 175% of the rated load capacity of the gear drive selected for the application. If the brake rating is greater than 175% of the rated load capacity, refer the application to the factory. Also refer to the factory all applications in which the brake is located at the output shaft of the gear drive.

Oversize Prime Movers Recommended Mechanical Service Factors do not cover applications that require oversize prime movers for high energy or peak loads. Refer such applications to the Factory for selection of suitable gear drives.

Speed Variation or Multi-Speed Applications The gear drives offered in this selection guide are designed to operate with splash lubrication on any single-speed application and any ratio shown in the selection guide unless otherwise noted. It is essential that all orders indicate the operating speed requirements and ratio so that the proper internal oil distribution accessories can be supplied for the specific speed.

Falk gear drives use different oil levels for various gear drive sizes, speeds and ratios. Consequently, to operate an existing gear drive at different speeds from those shown on the nameplate, full application and nameplate information must be referred to the Factory for review of the lubrication system.

All variable or multi-speed applications will be referred to Factory to specify lubrication components for adequate lubrication at the slowest speed, without excessive temperature or churning at the highest speed. It is essential that all orders indicate minimum and maximum speeds, as well as the speed duration cycles. A separate motor-driven oil pump (at an extra charge) may be required.

When selecting gear drives for multi-speed or variable speed applications, determine the speed at which the greatest torque is developed, and select the gear drive on this basis. If the speed is not listed in the selection table, interpolate to determine the gear drive rating.

Application-Adjusted Thermal Rating, Page 6, The application-adjusted thermal rating is the actual power that a gear drive will transmit continually for three hours or more without overheating. Although it is not necessary to apply the mechanical service factor when determining thermal adequacy of a gear drive, the application-adjusted thermal rating considers thermal factors associated with the application that will affect the ability of the gear drive to dissipate thermal energy. These thermal factors include ambient temperature, altitude above sea level, ambient air velocity and duty cycle. Thermal factors on Page 6 are used to adjust the Basic Thermal Rating when determining the application-adjusted thermal rating.

A check of the application-adjusted thermal rating versus the actual motor horsepower is necessary for the following applications:

- Continuous duty application where the gear drive runs continuously without shutdown for three hours or more per day.
- Intermittent duty applications where the gear drive operates for three hours or more per day, and run time intervals exceed the duration of the immediately following shutdown intervals. If any run time interval equals or exceeds three hours, the application is considered continuous duty.

The duty cycle factor permits an upward adjustment of the basic thermal rating associated with intermittent duty applications above, and takes into account the operating time per hour of the gear drive, regardless of duration relationship between run time intervals and down time intervals, and provided no specific run time interval exceeds one hour in duration.

Other short-interval, intermittent duty applications not meeting criteria stated above may generate only modest thermal energy to be dissipated by the gear drive. Refer full application details to the Factory for selection of the minimum cooling method that is adequate.

Effects of Solar Energy If a drive operates in the sun at ambient temperatures over 38°C (100°F), then special measures must be taken to protect the drive from solar energy. This protection can consist of a canopy over the gear drive or reflective paint on the gear drive. If neither is possible, a heat exchanger or other cooling device may be required.

Overhung Loads and Thrust Loads Overhung loads and thrust loads must be taken into account when selecting a gear drive. If either an overhung load or thrust load is imposed on the gear drive, or if both an overhung load and thrust load are applied simultaneously, refer application details to the Factory for correct gear drive selection.

Product Modifications The Factory can supply special product modifications to suit your application needs. Contact your local Representative for housing modifications, special ratios, special shafts, special mounting orientations, accessory modifications and other special application requirements.

Seal Housing Grease All gear drives will be shipped with NLGI grade #2 grease in the seal housing cavities. Where this grease could contaminate products produced by customer processes, such as in the food and drug industries, refer to factory for special food grade grease options.

Oil Pump-Equipped Application When a gear drive is equipped with an integral or external motor-driven oil pump, and the ambient temperature falls below 10°C (50°F), or the oil viscosity is in excess of 8000 SSU, an oil heater may be required to maintain a satisfactory flow rate at startup to prevent bearing failure. Consult the Factory.

Table 1 Mechanical Service Factor Conversions

| Table 2 or 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 † | |
|---|--------------------------|--------------------------|---|------------------------|
| | Multi-Cyl. Engine † | Multi-Cyl. Engine † | Motor | Multi-Cyl. Engine † |
| 1,25 | 1,50 | 1,75 | 1,25 | 1,25 |
| 1,50 | 1,75 | 2,00 | 1,25 | 1,50 |
| 1,75 | 2,00 | 2,25 | 1,50 | 1,75 |
| 2,00 | 2,25 | 2,50 | 1,75 | 2,00 |

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

Occasional and Intermittent Service or Engine-Driven Applications

For multi-cylinder engine-driven applications and all applications operating intermittently up to three hours per day, refer to Table 2 or 3 for the Service Factor of the same application operating three 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 three to 10 hours per day; use 1,50 Service Factor.
1. Engine driven up to three hours intermittently; use 1,25 Service Factor.
1. Motor driven up to three hours intermittently; use 1,25 Service Factor.

Mounting Position — Standard mounting positions for types VP & VR are with the input and output shafts horizontal.

Allowable mounting angles for standard oil levels are:

| | | |
|---------|--------------|------------|
| | Bridge Slope | Kiln Slope |
| VP & VR | ± 2° | ± 4° |

Consult the Factory for other angles.

Table 2 Mechanical Service Factors listed by Industry

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

| Industry | Service | | Industry | Service | |
|---|------------------|--------------|---|------------------|--------------|
| | 3 to 10 Hour | Over 10 Hour | | 3 to 10 Hour | Over 10 Hour |
| BOTTLING AND BREWING | | | Fourdrinier Rolls— | | |
| Bottling Machinery | 1,25 | 1,25 | Lumpbreaker, Wire Turning | | |
| Brew Kettles, Continuous Duty | 1,25 | 1,25 | Dandy & Return Rolls | 1,50 | 1,50 |
| Can Filling machines | 1,25 | 1,25 | Jordan | 1,50 | 1,50 |
| Cookers—Continuous Duty | 1,25 | 1,25 | Kiln Drive | 1,50 | 1,50 |
| Mash Tubs—Continuous Duty | 1,25 | 1,25 | ML Hope & Paper Rolls | 1,25 | 1,50 |
| Scale Hoppers—Frequent Starts | 1,25 | 1,50 | Platter | 1,50 | 1,50 |
| CLAY WORKING INDUSTRY | | | Presses (Felt & Suction) | 1,25 | 1,25 |
| Brick Press | 1,75 | 2,00 | Pulper (Continuous) | 2,00 | 2,00 |
| Briquette Machines | 1,75 | 2,00 | Repulper (Heavy Shock) | 2,00 | 2,00 |
| Clay Working Machinery | 1,25 | 1,50 | Reel (Surface Type) | 1,25 | 1,25 |
| Pug Mills | 1,25 | 1,50 | Screens | | |
| DISTILLING | See Brewing | | Chip & Rotary | 1,50 | 1,50 |
| DREDGES | | | Vibrating | 2,00 | 2,00 |
| Cable Reels, Conveyors | 1,25 | 1,50 | Size Press | 1,25 | 1,25 |
| Cutter Head, Jig Drives & Pumps | 2,00 | 2,00 | Super Calenders ■ | 1,25 | 1,25 |
| Maneuvering Winches | 1,75 | 2,00 | Thickener & Washer | | |
| Screen Drives | 1,75 | 2,00 | AC Motor | 1,50 | 1,50 |
| Stackers, Utility Winches | 1,25 | 1,50 | DC Motor | 1,25 | 1,25 |
| FOOD INDUSTRY | | | Vacuum Pumps | 1,50 | 1,50 |
| Beet Slicers | 1,25 | 1,50 | Wind & Unwind Stand | 1,25 | 1,25 |
| Bottling, Can Filling Machine | 1,25 | 1,25 | Winders (Surface Type) | 1,25 | 1,25 |
| Cereal Cookers | 1,25 | 1,25 | ◆ Yankee Dryers | 1,25 | 1,25 |
| Dough Mixers, Meat Grinders | 1,25 | 1,50 | PLASTIC INDUSTRY | | |
| LUMBER INDUSTRY | | | Batch Drop Mill, 2 smooth rolls | 1,25 | 1,25 |
| Barkers—Spindle Feed | 1,25 | 1,50 | Calenders | 1,50 | 1,50 |
| Barkers—Main Drive | 1,75 | 1,75 | Compounding Mills | 1,25 | 1,25 |
| Carriage Drive | Refer to Factory | | Continuous Feed, Holding & | | |
| Conveyors | | | Blend Mill | 1,25 | 1,25 |
| Burner | 1,25 | 1,50 | Extruders | 1,50 | 1,50 |
| Main or Heavy Duty | 1,50 | 1,50 | Variable Speed Drive | 1,50 | 1,50 |
| Main Log | 1,75 | 2,00 | Fixed Speed Drive | 1,75 | 1,75 |
| Re-Saw Merry-Go-Round | 1,25 | 1,50 | Intensive Internal Mixers | | |
| Slab | 1,75 | 2,00 | Batch Mixers | 1,75 | 1,75 |
| Transfer | 1,25 | 1,50 | Continuous Mixers | 1,50 | 1,50 |
| Chains—Floor | 1,50 | 1,50 | RUBBER INDUSTRY | | |
| Chains—Green | 1,50 | 1,75 | Batch Drop Mill, 2 smooth rolls | 1,50 | 1,50 |
| Cut-Off Saws—Chain & Drag | 1,50 | 1,75 | Calenders | 1,50 | 1,50 |
| Debarking Drums | 1,75 | 2,00 | Cracker, 2 corrugated rolls | 2,00 | 2,00 |
| Feeds—Edger | 1,25 | 1,50 | Cracker Warmer—2 roll. | | |
| Feeds—Gang | 1,75 | 1,75 | 1 corrugated roll | 1,75 | 1,75 |
| Feeds—Trimmer | 1,25 | 1,50 | Extruders | | |
| Log Deck | 1,75 | 1,75 | Continuous Screw Operation | 1,75 | 1,75 |
| Log Hauls—Incline, Well Type | 1,75 | 1,75 | Intermittent Screw Operation | 1,75 | 1,75 |
| Log Turning Devices | 1,75 | 1,75 | Holding, Feed & Blend Mill— | | |
| Planer Feed | 1,25 | 1,50 | 2 Roll | 1,25 | 1,25 |
| Planer Tilting Hoists | 1,50 | 1,50 | Intensive Internal Mixers | | |
| Rolls—Live—Off Bearing— | | | Batch Mixers | 1,75 | 1,75 |
| Roll Cases | 1,75 | 1,75 | Continuous Mixers | 1,50 | 1,50 |
| Sorting Table, Tipple Hoist | 1,25 | 1,50 | Mixing Mill—2 smooth rolls | | |
| Transfers—Chain & Craneway | 1,50 | 1,75 | (if corrugated rolls are used, use | | |
| Tray Drives | 1,25 | 1,50 | Cracker Warmer service factors) | 1,50 | 1,50 |
| Veneer Lathe Drives | Refer to Factory | | Refiner—2 roll | 1,50 | 1,50 |
| OIL INDUSTRY | | | SEWAGE DISPOSAL | | |
| Chillers | 1,25 | 1,50 | Bar Screens | 1,25 | 1,25 |
| Oil Well Pumping | Refer to Factory | | Chemical Feeders | 1,25 | 1,25 |
| Paraffin Filter Press | 1,25 | 1,50 | Collectors | 1,25 | 1,25 |
| Rotary Kilns | 1,25 | 1,50 | Dewatering Screens | 1,50 | 1,50 |
| PAPER MILLS ★ | | | Scum Breakers | 1,50 | 1,50 |
| Agitator (Mixer) | 1,50 | 1,50 | Slow or Rapid Mixers | 1,50 | 1,50 |
| Agitator for Pure Liquids | 1,25 | 1,25 | Thickeners | 1,50 | 1,50 |
| Barking Drums, Barkers—Mech. | 2,00 | 2,00 | Vacuum Filters | 1,50 | 1,50 |
| Beater | 1,50 | 1,50 | SUGAR INDUSTRY | | |
| Breaker Stack | 1,25 | 1,25 | Cane Knives, Crushers | 1,75 | 1,75 |
| Calender | 1,25 | 1,25 | Mills (low-speed end) | 1,75 | 1,75 |
| Chipper | 2,00 | 2,00 | TEXTILE INDUSTRY | | |
| Chip Feeder | 2,00 | 2,00 | Batchers, Calenders | 1,25 | 1,50 |
| Coating Rolls | 1,25 | 1,25 | Card Machines | 1,25 | 1,50 |
| Conveyors— | | | Dry Cans, Dryers | 1,25 | 1,50 |
| Chip, Bark, Chemical | 1,25 | 1,25 | Dyeing Machinery | 1,25 | 1,50 |
| Log (incl. Slab) | 2,00 | 2,00 | Knitting Machinery | Refer to Factory | |
| Couch Rolls | 1,25 | 1,25 | Looms, Mangles, | | |
| Cutter | 2,00 | 2,00 | Nappers, Pads | 1,25 | 1,50 |
| Cylinder molds | 1,25 | 1,25 | Range Drives | Refer to Factory | |
| Dryers — | | | Slashers, Soapers, Spinners, | | |
| Paper Mach. & Conveyor Type | 1,25 | 1,25 | Tenter Frames, Washers, Winders | 1,25 | 1,50 |
| Embosses | 1,25 | 1,25 | WINDLASS | Refer to Factory | |
| Extruder | 1,50 | 1,50 | | | |

- ★ 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.
- ◆ Anti-friction bearings only.
- A service factor of 1,25 may be applied at base speed of a super calender operating over a speed range of part constant power and part constant torque where the constant power speed range is greater than 1,5 to 1. A service factor of 1,25 is applicable to super calenders operating at constant torque over the entire speed range or where the constant power speed range is less than 1,5 to 1.

Table 3 | Mechanical Service Factors Listed by Application

| Industry | Service | | Industry | Service | | Industry | Service | | Industry | Service | |
|--|-------------------|--------------|---|------------------|--------------|---|-------------------|--------------|--|-------------------|--------------|
| | 3 to 10 Hour | Over 10 Hour | | 3 to 10 Hour | Over 10 Hour | | 3 to 10 Hour | Over 10 Hour | | 3 to 10 Hour | Over 10 Hour |
| AGITATORS | | | ▲ CONVEYORS—Uniformly loaded or Fed: | | | ▲ HOISTS | | | PULLERS (Barge Haul) | 1.75 | 2.00 |
| Pure Liquids | Refer to Factory | | Apron or Bucket | 1.25 | 1.50 | Heavy Duty | 1.75 | 2.00 | PUMPS | | |
| Liquids & Solids | Refer to Factory | | Assembly, Belt, Chain, Flight, Oven, Screw | 1.25 | 1.25 | Medium Duty | 1.25 | 1.50 | Centrifugal | 1.25 | 1.25 |
| Liquids—Variable Density | Refer to Factory | | ▲ CONVEYORS—Heavy Duty. Not Uniformly Fed | | | Skip Hoist | 1.25 | 1.50 | Proportioning | 1.25 | 1.50 |
| APRON CONVEYORS | | | Apron, Assembly, Belt, Bucket, Chain, Flight, Oven, Screw | 1.25 | 1.50 | INDUCED DRAFT FANS | 1.50 | 1.50 | Reciprocating | | |
| Uniformly Loaded or Fed | 1.25 | 1.50 | CONVEYORS—Severe Duty | | | See Mills. Rotary | See Mills. Rotary | | Single Act., 3 or more Cyl. | 1.25 | 1.50 |
| Heavy Duty | 1.25 | 1.50 | Live Roll | Refer to Factory | | LAUNDRY WASHERS | 1.50 | 2.00 | Double Act., 2 or more Cyl. | 1.25 | 1.50 |
| APRON FEEDERS | 1.25 | 1.50 | Reciprocating Shaker | 1.75 | 2.00 | LAUNDRY TUMBLERS | 1.25 | 1.50 | Single Act., 1 or 2 Cyl. | Refer to Factory | |
| ASSEMBLY CONVEYORS | | | COOKERS (Brewing & Distilling), (Food) | 1.25 | 1.25 | LINE SHAFTS | | | Double Acting, 1 Cyl. | Refer to Factory | |
| Uniformly Loaded or Fed | 1.25 | 1.25 | COOLING TOWER FANS | Refer to Factory | | Driving Processing Equipment | 1.25 | 1.50 | Rotary: Gear, Lobe, Vane. | Refer to Factory | |
| Heavy Duty | 1.25 | 1.50 | ▲ CRANES | | | Other Line Shafts, Light. | 1.25 | 1.25 | PUNCH PRESSES (Gear Driven) | 1.75 | 2.00 |
| BALL MILLS | See Mills. Rotary | | Dry Dock Cranes, Main Hoist, Bridge and Trolley Travel | Refer to Factory | | LIVE ROLL CONVEYORS | Refer to Factory | | PUNCH PRESSES (Gear Driven) | 1.75 | 2.00 |
| BARGE HAUL PULLERS | 1.75 | 2.00 | CRUSHERS | | | LOBE BLOWERS OR COMPRESSORS | 1.25 | 1.50 | RECIPROCATING CONVEYORS & FEEDERS | 1.75 | 2.00 |
| BARKING | | | Ore or Stone | 1.75 | 2.00 | LOG HAULS (Lumber) | | | RECIPROCATING COMPRESSORS | | |
| Drums (Coupling Connected) | 1.75 | 2.00 | Sugar | 1.75 | 1.75 | Incline-well Type. | 1.75 | 1.75 | Multi-Cylinder. | 1.50 | 1.75 |
| Mechanical | 1.25 | 2.00 | DEWATERING SCREENS (Sewage) | 1.50 | 1.50 | LOOMS (Textile) | 1.25 | 1.50 | Single Cylinder | 1.75 | 2.00 |
| BAR SCREENS (Sewage) | 1.25 | 1.50 | DISC FEEDERS | 1.25 | 1.25 | LUMBER INDUSTRY | See Table 2 | | ROD MILLS | See Mills. Rotary | |
| BATCHERS (Textile) | 1.25 | 1.50 | DISTILLING | See Table 2 | | MACHINE TOOLS | | | ROTARY | | |
| BELT CONVEYORS | | | DOUBLE ACTING PUMPS | | | Auxiliary Drives | 1.25 | 1.25 | Pumps. | 1.25 | 1.25 |
| Uniformly Loaded or Fed | 1.25 | 1.25 | 2 or more Cylinders | 1.25 | 1.50 | Bending Rolls | 1.25 | 1.50 | Screens (Sand or Gravel) | 1.25 | 1.50 |
| Heavy Duty | 1.25 | 1.50 | Single Cylinder | Refer to Factory | | Main Drives. | 1.25 | 1.50 | RUBBER & PLASTICS INDUSTRIES | See Table 2 | |
| BELT FEEDERS | 1.25 | 1.50 | DOUGH MIXER (Food) | 1.25 | 1.50 | Notching Press (Belted) | Refer to Factory | | SAND MULLERS | 1.25 | 1.50 |
| BENDING ROLLS (Machine) | 1.25 | 1.50 | DRAW BENCH (Metal Mills) | | | Plate Planers | 1.75 | 2.00 | SCREENS | | |
| BLOWERS | | | Carriage & Main Drive | 1.25 | 1.50 | Punch Press (Geared) | 1.75 | 2.00 | Air Washing | 1.25 | 1.25 |
| Centrifugal | 1.25 | 1.25 | DREDGES | See Table 2 | | Tapping machines. | 1.75 | 2.00 | Rotary—Sand or Gravel | 1.25 | 1.50 |
| Lobe | 1.25 | 1.50 | DRY DOCK CRANES | Refer to Factory | | MANGLE (Textile) | 1.25 | 1.50 | Traveling Water Intake. | 1.25 | 1.25 |
| Vane | 1.25 | 1.50 | DRYERS & COOLERS (Mills. Rotary) | 1.50 | | MASH TUBS (Brewing & Distilling) | 1.25 | 1.25 | SCREW CONVEYORS | | |
| BOTTLING MACHINERY | | | DYEING MACHINERY (Textile) | 1.25 | 1.50 | MEAT GRINDERS (Food) | 1.25 | 1.50 | Uniform. | 1.25 | 1.25 |
| BREWING | See Table 2 | | ELEVATORS | | | METAL MILLS | | | Heavy Duty or Feeder | 1.25 | 1.50 |
| BRICK PRESS (Clay Working) | 1.75 | 2.00 | Bucket-Uniform Load | 1.25 | 1.50 | Draw Bench Carriages & Main Drives. | 1.25 | 1.50 | SCUM BREAKERS (Sewage) | 1.50 | 1.50 |
| BRIQUETTE MACHINES (Clay Working) | 1.75 | 2.00 | Bucket-Heavy Duty | 1.25 | 1.50 | Pinch, Dryer & Scrubber | | | SEWAGE DISPOSAL | See Table 2 | |
| BUCKET | | | Bucket-Continuous | 1.25 | 1.50 | Rolls, Reversing | Refer to Factory | | SHAKER CONVEYORS | 1.75 | 2.00 |
| Conveyors Uniform | 1.25 | 1.50 | Centrifugal Discharge | 1.25 | 1.25 | Sitters. | 1.25 | 1.50 | SHEETERS (Rubber) | 1.75 | 2.00 |
| Conveyors Heavy Duty | 1.25 | 1.50 | ▲ Escalators | Not Approved | | Table Conveyors. | | | SINGLE ACTING PUMP | | |
| Elevators Continuous | 1.25 | 1.50 | ▲ Freight | Not Approved | | Non-Reversing Group Drives | 1.50 | 1.50 | 1 or 2 Cylinders | Refer to Factory | |
| Elevators Uniform | 1.25 | 1.50 | Gravity Discharge | 1.25 | 1.25 | Non-Reversing Individual Drives. | 2.00 | 2.00 | 3 or more Cylinders | 1.25 | 1.50 |
| Elevators Heavy Duty | 1.25 | 1.50 | ▲ Man Lifts, Passenger | Not Approved | | Reversing | Refer to Factory | | ▲ SKI TOWS & LIFTS | Not Approved | |
| CALENDERS | | | EXTRUDERS (Plastic & Rubber) | See Table 2 | | Wire Drawing & Flattening Machines | 1.25 | 1.50 | ▲ SKIP HOIST | 1.25 | 1.50 |
| Rubber and Plastic | See Table 2 | | FANS | | | Wire Winding Machines | 1.50 | 1.50 | SLAB PUSHERS | 1.50 | 1.50 |
| Textile | 1.25 | 1.50 | Centrifugal | 1.25 | 1.25 | MILLS. ROTARY | | | SLITTERS (Metal) | 1.25 | 1.50 |
| CANE KNIVES | 1.75 | 1.75 | Cooling Towers. | Refer to Factory | | Ball and Rod Mills | | | SLUDGE COLLECTORS (Sewage) | 1.25 | 1.25 |
| CAN FILLING MACHINES | 1.25 | 1.25 | Forced Draft. | 1.25 | | with Spur Ring Gear | Refer to Factory | | SOAPERS (Textile) | 1.25 | 1.50 |
| CARD MACHINES (Textile) | 1.25 | 1.50 | Induced Draft. | 1.50 | 1.50 | with Helical Ring Gear | Refer to Factory | | SPINNERS (Textile) | 1.25 | 1.50 |
| CAR DUMPERS | 1.75 | 2.00 | Large (Mine. etc.) | 1.50 | 1.50 | Direct Connected. | Refer to Factory | | STEERING GEARS | Refer to Factory | |
| CAR PULLERS | 1.25 | 1.50 | Large Industrial | 1.50 | 1.50 | Cement Kilns, Dryers & Coolers | Refer to Factory | | STOKERS | 1.25 | 1.25 |
| CEMENT KILNS | See Mills. Rotary | | Light (Small Diameter) | 1.25 | 1.25 | Pebble, Plain & Wedge Bar Mills | Refer to Factory | | STONE CRUSHERS | 1.75 | 2.00 |
| CENTRIFUGAL | | | FEEDERS | | | Tumbling Barrels. | Refer to Factory | | SUGAR INDUSTRY | See Table 2 | |
| Blowers, Compressors, Discharge Elevators, Fans or Pumps | 1.25 | 1.25 | Apron, Belt | 1.25 | 1.50 | MIXER (Also see Agitators) | | | TABLE CONVEYORS (Non-Reversing) | | |
| CHAIN CONVEYORS | | | Disc. | 1.25 | 1.25 | Concrete, Cont. & Int. | Refer to Factory | | Group Drives. | 1.50 | 1.50 |
| Uniformly Loaded or Fed | 1.25 | 1.25 | Reciprocating | 1.75 | 2.00 | Constant Density. | Refer to Factory | | Individual Drives. | 2.00 | 2.00 |
| Heavy Duty | 1.25 | 1.50 | Screw | 1.25 | 1.50 | Variable Density | Refer to Factory | | Reversing | Refer to Factory | |
| CHEMICAL FEEDERS (Sewage) | 1.25 | 1.25 | FLIGHT CONVEYORS | | | NAPPERS (Textile) | 1.25 | 1.50 | TENTER FRAMES (Textile) | 1.25 | 1.50 |
| CLARIFIERS | 1.25 | 1.25 | Uniform | 1.25 | 1.25 | OIL INDUSTRY | See Table 2 | | TEXTILE INDUSTRY | See Table 2 | |
| CLASSIFIERS | 1.25 | 1.50 | Heavy Duty | 1.25 | 1.50 | ORE CRUSHERS | 1.75 | 2.00 | THICKENERS (Sewage) | 1.50 | 1.50 |
| CLAY WORKING | See Table 2 | | FOOD INDUSTRY | See Table 2 | | OVEN CONVEYORS | | | TUMBLING BARRELS | 1.75 | 2.00 |
| COLLECTORS (Sewage) | 1.25 | 1.25 | GENERATORS (Not Welding) | 1.25 | 1.25 | Uniform | 1.25 | 1.25 | VACUUM FILTERS (Sewage) | 1.50 | 1.50 |
| COMPRESSORS | | | GRAVITY DISCHARGE ELEVATORS | 1.25 | 1.25 | Heavy Duty | 1.25 | 1.50 | VANE BLOWERS | 1.25 | 1.50 |
| Centrifugal | 1.25 | 1.25 | HAMMER MILLS | 1.75 | 2.00 | PAPER MILLS | See Table 2 | | WINCHES (Dredges) | 1.25 | 1.50 |
| Lobe | 1.25 | 1.50 | | | | ▲ PASSENGER ELEVATORS | Not Approved | | WINDERS (Textile) | 1.25 | 1.50 |
| Reciprocating | | | | | | PEBBLE MILLS | 1.50 | | WINDLASS | Refer to Factory | |
| Multi-Cylinder. | 1.50 | 1.75 | | | | PLATE PLANERS | 1.75 | 2.00 | WIRE | | |
| Single-Cylinder. | 1.75 | 2.00 | | | | PRINTING PRESSES | Refer to Factory | | Drawing Machines | 1.25 | 1.50 |
| CONCRETE MIXERS | | | | | | PROPORTIONING PUMPS | 1.25 | 1.50 | Winding Machines | 1.50 | 1.50 |
| Continuous | Refer to Factory | | | | | PUG MILLS (Clay) | 1.25 | 1.50 | | | |
| Intermittent | Refer to Factory | | | | | | | | | | |

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

▲ Selection of 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 and 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.

How to Select/Formula Method

Before making a selection, refer to Basic Information and Conditions Affecting Selection on Pages 1 and 2.

Information Required

The following basic information is required to select a Falk™ V-Class™ gear drive for your application.

Prime Mover Data

- Type – electric or hydraulic motor or engine
- Power rating in kW
- Speed – constant or variable
- Dimensions – if the Factory will furnish motor mounting accessory or coupling

Driven Machine Data

- Type – conveyor, kiln, etc.
- Power demand in kW, or equivalent torque
- Speed and direction of rotation
- Service – hours per day; reversals per minute if reversing; minutes per hour (duty cycle) if not continuous

Gear Drive Data

- Type – parallel shaft or right angle
- Ambient temperature range at drive location
- Altitude above sea level
- Ambient air velocity at drive location
- Mounting position – if inclined or non-standard orientation

Shaft Connections

- Shaft diameters and key sizes
- Overhung loads – provide full description of sheave, sprocket, or pinion
- Thrust load and direction

Power Selection Method

The power selection method is based on the power rating of the prime mover.

1. Determine the mechanical service factor.
Electric motor-driven applications, see Tables 2 & 3, Pages 3 & 4.
Engine-driven or intermittent applications, see Table 1, Page 3.
2. Calculate equivalent power by multiplying the rated power of the prime mover by the mechanical service factor determined in Step 1.
3. Determine gear drive nominal ratio.
Divide the high-speed shaft rpm by the low-speed shaft rpm to determine your ideal ratio. Choose a nominal ratio that most closely approximates your ideal ratio. Nominal ratios are found in the power ratings tables. See Step 4.
4. Using the equivalent power determined in Step 2, and the gear drive nominal ratio that most closely approximates the ideal ratio determined in Step 3, select the gear drive size using the Power Ratings Tables.

Power Ratings Tables:

- Parallel shaft gear drives, see Pages 18 thru 41.
- Right angle shaft drives, see Pages 144 thru 157.

Locate the proper page within the power ratings tables based on nominal ratio and high-speed shaft rpm. Once on the proper page, go to the portion of the table associated with your high-speed shaft rpm, and using the appropriate nominal ratio, trace to the right through the columns. Determine the column of the first power rating that equals or exceeds the equivalent power determined in Step 2. The size of the gear drive selected is at the top of the column. Once a gear drive size has been selected, an exact ratio can be determined from the exact ratio tables.

5. Check thermal rating using procedures outlined on Page 6. The application-adjusted thermal rating of the cooling method selected must equal or exceed the motor power.
6. When overhung loads or thrust loads are present, check to assure they are within the capacity of the gear drive selected.

Overhung load (radial load) is imposed by sheaves, sprockets, and open pinions that are mounted directly on the shaft extensions of the gear drive. Gear drive shaft extensions that are flexible coupling-connected need not be checked for overhung load. Flexible couplings do not impose significant overhung load.

Refer HS shaft overhung load applications to the Factory.

Gear drives that have thrust load (axial loads) applied need to be referred to Factory for correct selection. Please advise magnitude and direction to select the correct drive size for the application.

Combined shaft loadings involving simultaneous application of overhung load, thrust load, or bending moment (as in mixers and agitators) should be referred directly to the Factory.

Torque Selection Method

For convenience, low-speed shaft torque ratings of gear drives are provided, and a purely mechanical selection of a gear drive can be made using torque values. Simply follow the steps outlined in the power selection method, substituting torque values for power values. In order to check thermal adequacy, and check shaft ratings, it will be necessary to convert the torque to power using the formula below:

$$\text{Input Power (kW)} = \frac{\text{Torque (Nm)} \times \text{Output Speed (rpm)}}{9550}$$

Example Selections

An example using the Power Selection Method and an example using the Torque Selection Method is found on Page 7.

Thermal Factors & Procedures

Checking Thermal Rating

Checking the thermal rating is extremely important. If the gear drive's capacity to dissipate thermal energy is insufficient, it will overheat, and severe damage may occur.

Gear drive basic thermal ratings are defined on Page 1. A discussion of the application-adjusted thermal rating, and when it is applicable, is found on Page 2.

Thermal Rating Factors

Thermal horsepower ratings published herein are based on a 20°C (68°F) ambient temperature at an altitude up to 750 meters above sea level. For other conditions, the thermal horsepower rating must be multiplied by the factors shown in Tables 1 & 2 (see right).

Application-Adjusted Thermal Rating

Once a mechanically adequate gear drive selection has been made per Steps 1-4 on Page 5, determine the application-adjusted thermal rating of the gear drive. The application-adjusted thermal rating of the gear drive selected must equal or exceed the actual motor horsepower.

In most cases, the nameplate power rating of the motor is assumed to equal the actual power transmitted. It is not necessary to apply the mechanical service factor when determining thermal adequacy of a gear drive.

Use the following formula to determine application-adjusted thermal rating:

$PT_A = P_T \times B_1 \times B_2 \times B_3 \times B_4 \times B_5$ where:

PT_A = Application-Adjusted Thermal Rating

P_T = Basic Thermal Rating

B_1 = Ambient Temperature Factor (Table 1)

B_2 = Altitude Factor (Table 2)

B_3 = Ambient Air Velocity Factor for no auxiliary cooling (Table 3)

B_4 = Duty Cycle Factor (Table 4)

B_5 = Alignment-Free Package Factor (Table 5)

Basic Thermal Ratings for parallel shaft gear drives are found on Pages 42-93.

Basic Thermal Ratings for right angle shaft gear drives are found on Pages 158-203.

Once a gear drive satisfies mechanical requirements, select an auxiliary cooling method with an application-adjusted thermal rating that equals or exceeds the actual power transmitted. If no listed cooling method is adequate, contact the Factory for selection of an optional heat exchanger, or consider a larger gear drive with greater thermal capacity.

Table 1 — Ambient Temperature Factor – B_1
(For all cooling methods)

| Ambient Temperature ★ | Ambient Adjustment Factor at 82°C Sump | Ambient Adjustment Factor at 92°C Sump |
|-----------------------|--|--|
| 15°C (59°F) | 1,09 | 1,08 |
| 20°C (68°F) | 1,00 | 1,00 |
| 25°C (77°F) | 0,91 | 0,92 |
| 30°C (86°F) | 0,82 | 0,85 |
| 35°C (95°F) | 0,74 | 0,78 |
| 40°C (104°F) | 0,65 | 0,70 |
| 45°C (113°F) | 0,56 | 0,63 |
| 50°C (122°F) | 0,48 | 0,56 |

★ Factors for other ambient temperatures can be interpolated.

Table 2 — Altitude Factor – B_2

| Altitude Above Sea Level – Meters | Factor |
|-----------------------------------|--------|
| 0 | 1,00 |
| 750 | 0,95 |
| 1500 | 0,90 |
| 2250 | 0,85 |
| 3000 | 0,81 |
| 3750 | 0,76 |
| 4500 | 0,72 |
| 5250 | 0,68 |

Table 3 — Ambient Air Velocity Factor † – B_3
(For no auxiliary cooling)

| Sustained Ambient Air Velocity † m/S | Installed Environment | Factor for No Auxiliary Cooling |
|---|-----------------------|---------------------------------|
| < 0,5 | Confined Space | 0,75 |
| 0,5 to 1,4 | Large Indoor Room | 1,00 |
| 1,4 to 3,7 | Large Indoor Room | 1,40 |
| > 3,7 | Outdoors | 1,90 |

† The sustained ambient air velocity must be a continuous flow of air directly onto the gear drive. If the air flow cannot be relied upon to be continuous, an ambient air velocity factor of 0,75 must be used.

Table 4 — Duty Cycle Factor ‡ – B_4

| % Operating Time Per Hour | Factor With or Without Auxiliary Cooling |
|---------------------------|--|
| 100% | 1,00 |
| 80% | 1,05 |
| 60% | 1,15 |
| 40% | 1,35 |
| 20% | 1,80 |

‡ The duty cycle factor must be based on the percentage of each hour that the drive is operating. For example: a gear drive operating for 48 minutes of every hour of the day has an 80% duty cycle, but a drive operating for four hours and resting for four hours has a 100% duty cycle. Where the % Operating Time Per Hour falls between values tabulated above, use the next higher % Operating Time.

Table 5 — Alignment-Free Package Factor* – B_5

| Size | Fluid Coupling | | | | VFD / Floating Shaft Coupling | | |
|---------------|----------------|----------|----------|----------|-------------------------------|---------------------------------------|--------------------------------------|
| | 1420HFDD | 1480HFDD | 1584HFDD | 1660HFDD | All Sizes (NEMA & IEC) | NEMA 447T/IEC 280M and Smaller Motors | NEMA 449T/IEC 315S and Larger Motors |
| 117 | 1,14 | ... | ... | ... | 1,14 | ... | ... |
| 127 | 1,00 | 1,13 | ... | ... | 1,00 | ... | ... |
| 133, 137 | 1,14 | 1,27 | ... | ... | 1,14 | ... | ... |
| 143, 145, 147 | 1,00 | 1,13 | 1,41 | ... | ... | 1,00 | 1,41 |
| 153, 155, 157 | 0,89 | 1,00 | 1,26 | 1,55 | ... | 0,89 | 1,26 |
| 163, 165, 167 | 0,88 | 1,00 | 1,27 | 1,56 | ... | 0,88 | 1,27 |
| 173, 175, 177 | ... | 0,74 | 0,95 | 1,18 | 0,95 | ... | ... |
| 187 | ... | 0,74 | 0,95 | 1,18 | 0,95 | ... | ... |
| 193, 195, 197 | ... | ... | 0,76 | 0,76 | 0,76 | ... | ... |
| 203, 207 | ... | ... | 0,76 | 0,76 | 0,76 | ... | ... |
| 213, 215, 217 | ... | ... | ... | ... | ... | ... | ... |
| 223, 225, 227 | ... | ... | ... | ... | ... | ... | ... |

* Factor to be applied to shaft fan cooling only. Not applicable for other cooling types.

Power Selection Example

An heavily loaded coal conveyor operates continuous duty 24 hrs per day. The application requires a right angle reducer due to space constraints. The gear drive will be driven by a 450 kW electric motor at 1500 rpm. A low speed shaft speed of 70 rpm and a maximum sump temperature of 93°C has been requested.

Ambient temperature at the conveyor does not exceed 20°C. The conveyor is installed underground in an open air environment with unrestricted air flow. The high-speed and low-speed shafts of the selected gear drive will be connected to the driving and driven equipment by flexible couplings. Select a base-mounted right angle gear drive for this application as follows:

1. The mechanical service factor is 1,50 for a heavily loaded conveyor operating over 10 hours per day, from page 3, Table 2 (Conveyors, Heavy Duty)
2. The equivalent power in HP = $1,50 \times 450 = 675$ kW.
3. The ideal ratio is $1500 \div 70 = 21,45$. The closest nominal ratio is 20:1 from the Right Angle Triple Reduction Power Ratings Table on page 146.
4. Using the Right Angle Triple Reduction Power Ratings Table on page 146 and in the section associated 20:1, trace right through the columns to the first power rating the equals or exceeds the equivalent of 675 kW calculated in Step 2. The selection is a size 175VR3 (shown at the top of the column) that has a power rating of 726 kW. Actual mechanical service factor is $726 \div 450 = 1,61$ Exact ratio is 20,78:1, found on page 204 (exact ratio table)
5. Check thermal rating. The application-adjusted thermal rating must equal or exceed the actual power transmitted (450 kW). Basic thermal rating for the 175VR3, nominal ratio 20:1, high speed shaft of 1500 rpm, no auxiliary cooling, equals 181 kW, per page 168.

Thermal factors from page 6 for no auxiliary cooling are as follows:

B1 = Ambient Temperature Factor from Thermal Table 1 = 1,00

B2 = Altitude Factor from Thermal Table 2 = 1,00

B3 = Ambient Air Velocity Factor from Thermal Table 3 = 1,00

B4 = Duty Cycle Factor from Thermal Table 4 = 1,00

Application Adjusted Thermal rating with no auxiliary cooling = $181 \times 1,00 \times 1,00 \times 1,00 = 181$ kW.

Application adjusted thermal rating does not equal or exceed the 450 kW transmitted so auxiliary cooling is required.

Basic thermal rating for the 175VR3, nominal ratio 20:1, high speed shaft 1500 rpm, shaft fan cooling, equals 611 kW, per page 168.

Thermal factors for shaft fan cooling are as follows:

B1 = Ambient Temperature Factor from Thermal Table 1 = 1,00

B2 = Altitude Factor from Thermal Table 2 = 1,00

B4 = Duty Cycle Factor from Thermal Table 4 = 1,00

Application Adjusted Thermal rating with no auxiliary cooling = $611 \times 1,00 \times 1,00 \times 1,00 = 611$ kW.

Application adjusted thermal rating does equal or exceed the 450 kW transmitted so shaft fan cooling is required. Right angle VRC3 unit utilize a split axial fan so the direction of rotation of the high speed shaft must be provided at the time of order.

6. It is not necessary to check overhung load or thrust capacity of the gear drive for this example. Gear drive shaft extensions are connected by flexible couplings, which do not impose significant overhung load. No thrust load is present.
7. Determine the complete V-Class unit nomenclature per page 12. You must specify the shaft orientation and accessory mounting position for your installation. For example, the final nomenclature for this unit could be M175VRC3A20,78-0421B.

Torque Selection Example

A dredge utility winch requires 56,500 Nm of torque at its output shaft, which operates at 16 rpm. The winch is in service eight hours per day and is driven by a coupling-connected 110 kW, 1500 rpm electric motor. The ambient temperature never exceeds 20°C. The approximate air velocity is 3 meters per second, and the dredge operates in North Sea (sea level). The winch never operates more than 30 minutes in a given hour. The space available is best suited to a base-mounted right angle gear drive, and a maximum sump temperature of 93°C has been requested. Select a gear drive for this application.

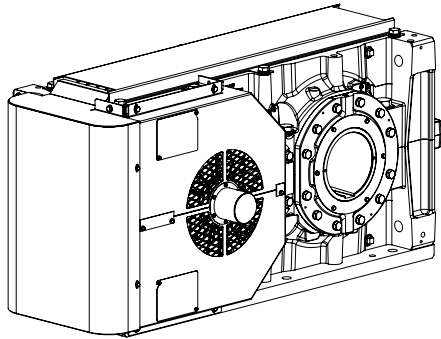
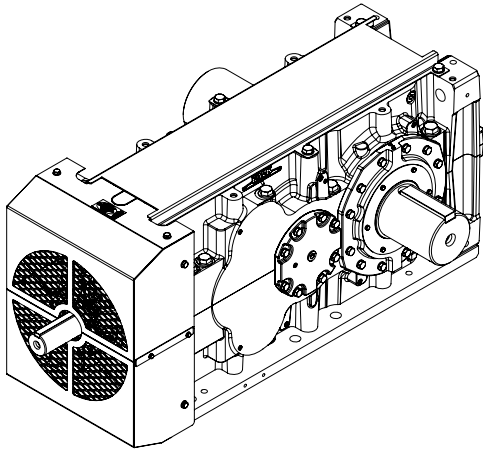
1. The Service Factor is 1,25 for a dredge utility winch operating 10 hours per day, from Page 3, Table 2 under Dredges.
2. The equivalent torque is $1,25 \times 56,500 = 70,625$ Nm
3. The ideal ratio is $1500 \div 16 = 93,75:1$. The nearest standard ratio is 90:1 from the Right Angle Triple Reduction Table on Page 146.
4. Using the Triple Reduction Table on Page 146, in the 1500 rpm high-speed shaft section at the 90:1 ratio and 16 rpm, trace right to 70,6 (x 1000 the first torque exceeding the equivalent torque of 70,625 Nm) and read the drive size 165 at the top of the column. The exact ratio is 90,39:1, found on page 204 (exact ratio table)
5. The basic thermal capacity with no auxiliary cooling for an 165VR3, 90:1, at 1500 rpm from the table on Page 168 is 108 kW. The ambient temperature factor (B1) from Table 1, page 6, is 1,00. The altitude factor (B2) from Table 2, page 6 is 1,00. The ambient air velocity factor (B3) is 1,4 from Table 3, page 6. The Duty Cycle is 50% (30 min/hour), so the duty cycle factor (B4) is 1,15 from Table 4, Page 6.
6. The application-adjusted thermal capacity is $108 \times 1,00 \times 1,00 \times 1,40 \times 1,5 = 226$ kW, which exceeds the power rating of the motor (110 kW). Therefore, no additional cooling is required.
7. It is not necessary to check overhung load or thrust capacity of the gear drive for this example. Gear drive shaft extensions are connected by flexible couplings, which do not impose significant overhung load. No thrust load is present.
8. Determine the complete V-Class unit nomenclature per page 12. You must specify the shaft orientation and accessory mounting position(if applicable) for your installation. For example, the final nomenclature for this unit could be M165VRC3A90,39-02

Accessory & Option Information

Shaft-Driven Cooling Fans

Shaft-driven cooling fans provide a simple and inexpensive way to utilize the full mechanical rating of the gear drives by lowering the operating temperature, thus increasing thermal power capacity. Cooling fans have been successfully used on electric motors and other related machinery for many years. They eliminate the need for water or electrically powered cooling, pumps and external piping. The sound level at standard motor rpm is about the same as that from fans on totally enclosed, fan-cooled driving motors. Less than 0.25% of cataloged power rating is required to drive the fans. Radial fans are available for use with VP parallel shaft drives. The radial fan utilized on the VP drives is a split fan design.

Axial split fans are also available for use on the VR right angle drives. The direction of rotation of the high-speed shaft is required at the time of order to ensure that the correct axial fan is selected. Dimensions, arrangements and clearances for shaft-driven fans are shown in the selection guide.



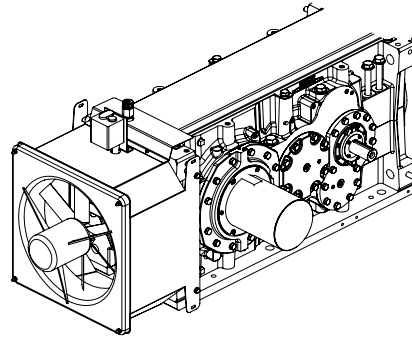
Electric Cooling Fan

The use of an electric fan permits the full use of available shaft extensions. Electric fans are unaffected by shaft rotation and speed of the gearbox. They include a thermostatic control to turn off the fan when it is not required. The electric fan can be mounted on either end of a parallel shaft drive and on the low-speed end of a right angle drive. Electric fans are available with the following standard motor packages:

- 60Hz, 3 phase, 220/380VAC
- 60Hz, 3 phase, 265/460VAC
- 60Hz, 1 phase, 110VAC
- 50Hz, 3 phase, 220/380VAC

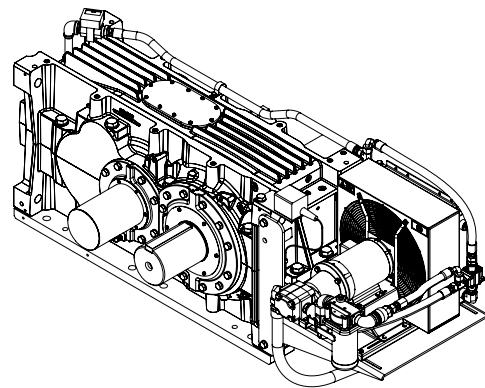
Other motor packages may be available at an extra charge. Consult the Factory for price and availability.

Dimensions, arrangements and clearances for electric fans are shown in the selection guide. Additional information including motor ratings and thermostatic control wiring diagrams are also available from the Factory.



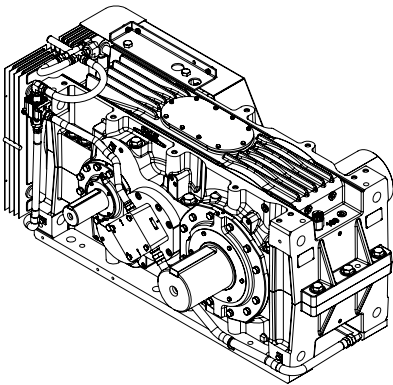
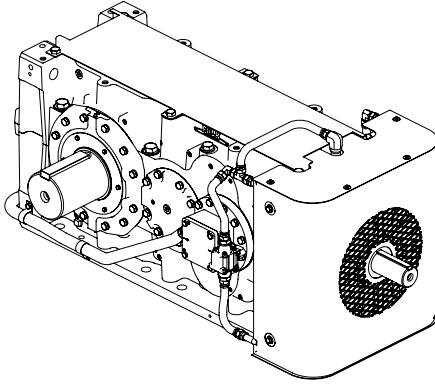
Pumps & Coolers

The 600 Series integrated oil-to-air cooler is drive mounted at the factory and shipped with both the lube suction and return lines connected to the drive with flexible hose. Only one motor is required – this dual output motor drives both the lube pump and cooling fan. The motor is 230-460V AC, 3 phase, 50 or 60Hz. A thermostatic bypass valve at the cooler regulates the flow of oil through the cooler. Available options include flow switch, single and dual filters.



DuraPlate™ Patent-Pending Cooling Package

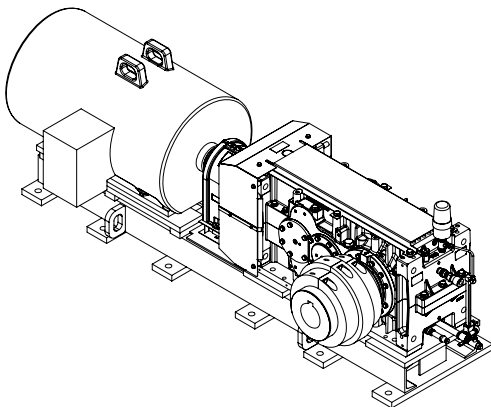
The Falk V-Class DuraPlate provides enhanced cooling capacity. This self-contained system is integral to the drive train and can control oil temperatures in the most extreme conditions. No air, water or electricity is required. A shaft-driven pump circulates oil through the patent-pending DuraPlate while a shaft-driven fan provides air flow to cool the oil.



Bedplates

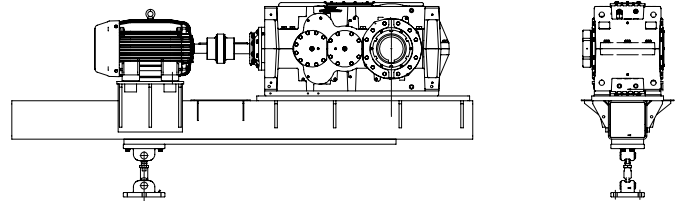
A bedplate is recommended to ensure proper alignment of a base-mounted drive with the motor. The Factory can provide a fabricated steel bedplate for all popular sizes of standard VP and VR drives. These bedplates accommodate standard NEMA and IEC motors within the power range of the drive and many of the larger non-NEMA motors. Special bedplates can be designed and manufactured for unique motor and special accessory combinations.

Supports for tachometers, brakes, timing devices, foot-mounted fluid couplings or other accessories can be added. Contact the Factory for further details on this accessory.



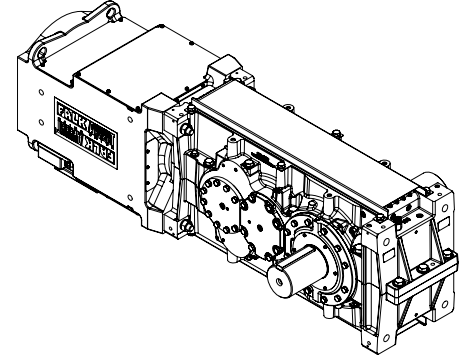
Swing Base

Designed specifically for use with the VR right angle shaft-mounted drive, the swing base provides an economical and readily available alternative to bedplates. Swing bases have been pre-engineered for several combinations of Falk V-Class units, NEMA & IEC motors and Falk couplings.



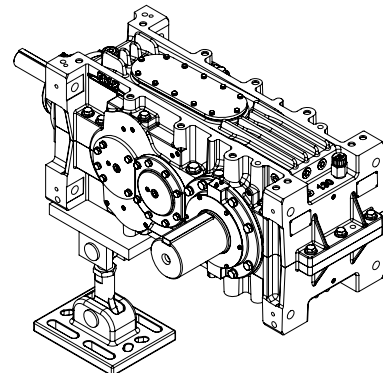
Alignment-Free Drive

The Alignment-Free Drive is a standard packaged drive developed to meet the demands of surface and underground belt conveyor applications. The drive comprises a unitized motor, coupling (fluid or flexible) and right angle gear drive that mounts directly to the conveyor drive shaft and is supported by a single torque arm. The unit can mount to the conveyor shaft via rigid flanged coupling, TA Taper® bushing or shrink disc. It is simple to install, eliminates the cost of expensive mounting pads, and offers the mobility required for today's conveyor systems.



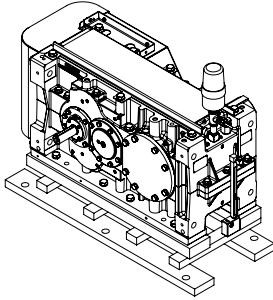
Torque Arm

Torque arms are available for VR right angle shaft-mounted drives. They are used to support the drive in a standard horizontal position, and are suitable for use with a swingbase, bedplate or Alignment-Free drive. The customer is responsible for determining the structural integrity of their support structure.



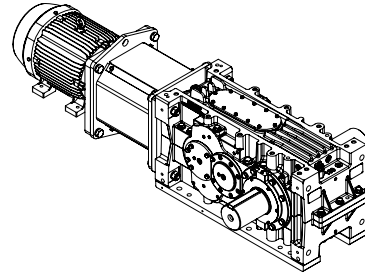
Transition Base

A custom transition bedplate can be provided to adapt a current Falk V-Class unit to the footprint of an existing gear drive. Transition bases are designed to align the center of the gear drive low-speed shaft with the center of the driven shaft. Additional adaption in the form of spacer couplings and/or an extended shaft may be required to complete the low-speed connection.



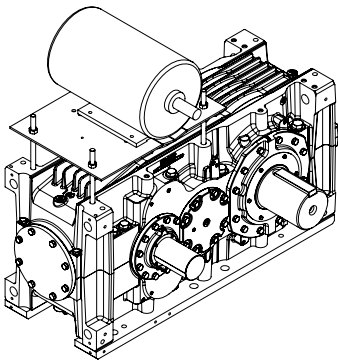
Flange Motor Adapters

Flanged motor adapters are available for type VP and VR drives. The adapter allows a flange-mounted motor to be directly mounted to the high speed shaft of the drive.



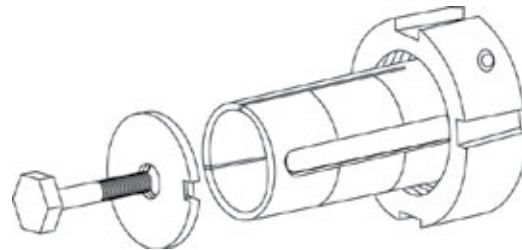
Motor Mounts

Motor mounts are selectively predesigned for type VP drives. Motor mounts provide a convenient support for the motor when the drive is belt-driven.



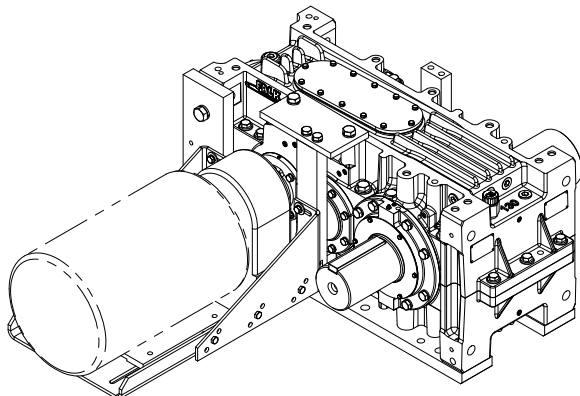
TA Taper Bushings

Available with both inch and metric bores, the TA Taper ductile iron bushings provide for easy-on easy-off shaft mounting convenience for hollow shaft drives.



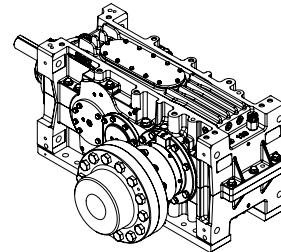
Motor Brackets

Motor brackets may be used for type VP and VR drives. These motor brackets provide an economical "soft" mounting for standard NEMA T-frame and IEC B3 induction motors. It is expected that the weight, location and starting torque of the motor will cause cantilevered motor brackets to deflect or twist to varying degrees. They are engineered to be within acceptable deflection limits as determined by the Factory. However, because the motor bracket is a "soft" motor support, deflection and vibration magnitudes of the bracket may exceed levels normally considered acceptable for rigidly, "hard" mounted machinery.



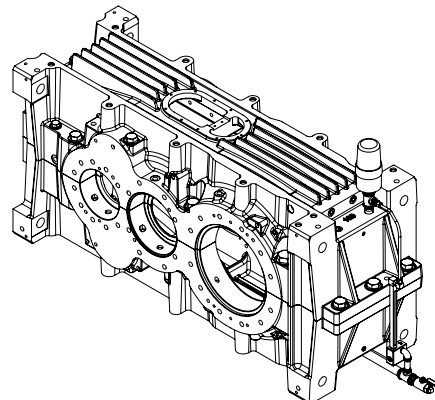
Shaft Mounting Options

In addition to the TA Taper bushing previously described, shaft mounting options include hollow shaft with shrink disc and solid shaft with a Falk MCF rigid flange coupling.



Lubrication Package

The Falk V-Class Lube Package includes a Falk desiccant breather, an oil sampling port, an oil sight gauge and oil drain ball valve assembly.

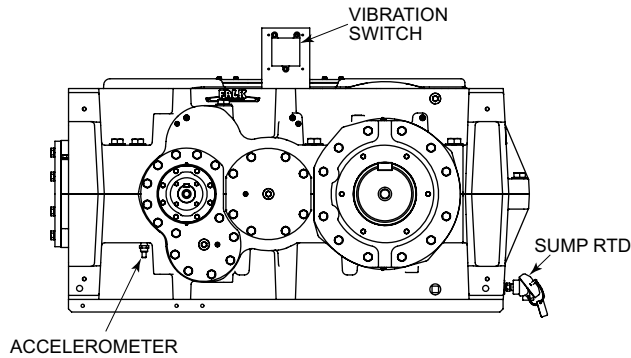


Condition Monitoring Packages

The Falk V-Class condition monitoring packages allow you to easily monitor the health of your drive.

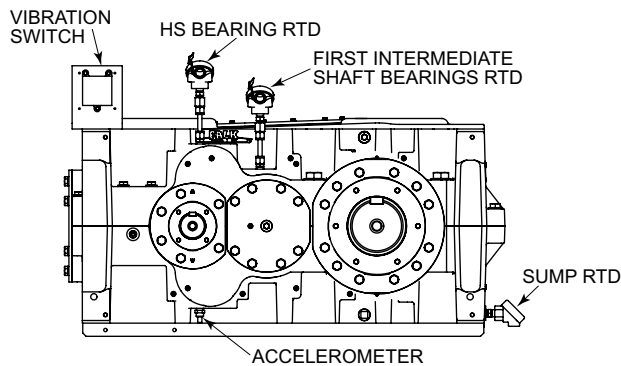
Condition Monitoring #1

This package includes a sump RTD and an accelerometer with vibration switch. The package includes one 100Ω three-wire platinum sump RTD with thermowell.



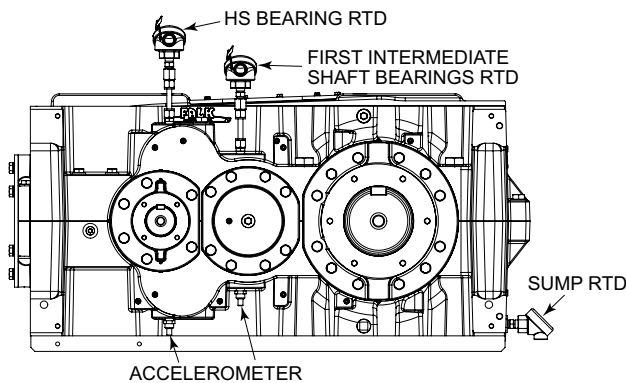
Condition Monitoring #2

This package includes a sump RTD and an accelerometer with vibration switch and bearing RTDs located at the high-speed and first intermediate shaft bearings.



Condition Monitoring #3

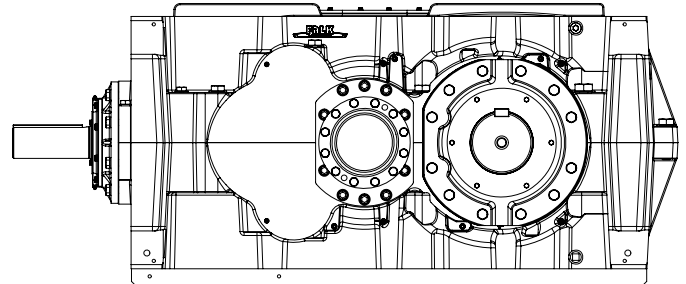
This package includes a sump RTD, bearing RTDs located at the high-speed and first intermediate shaft bearings, and accelerometers at the high-speed and first intermediate shaft bearings.



Backstops

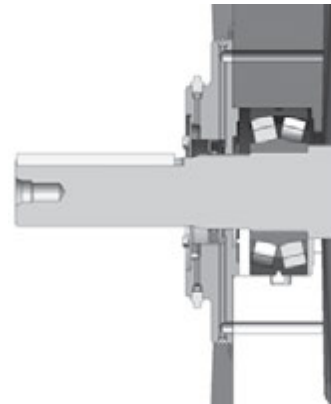
Backstops prevent reverse rotation or backrun without backlash for conveyors, elevator head shafts, and similar applications. A standard line of accessory backstops for use on types VP and VR drives is available. These accessory backstops are mounted integrally on an extension of either the high-speed or an intermediate shaft and share the drive sump oil. The Falk V-Class backstop is a sprag type design.

When specifying accessory backstops, the overrunning direction of rotation is defined as clockwise or counterclockwise when facing the rotating end of the low-speed shaft extension.



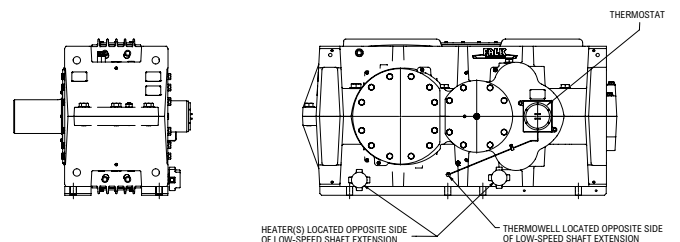
Magnum Seals

Falk V-Class units include the standard Falk Magnum seal arrangement. Falk's exclusive labyrinth-design, non-wearing Magnum seal keeps oil in and dirt out. A purgeable grease chamber with contact seal prevents the infiltration of dirt and grime. A unique drainback passage combines with a radial and axial bush seal to retain oil and eliminate leaks.

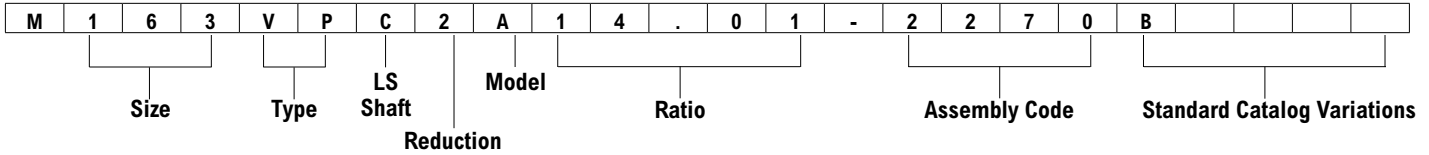


Immersion Heater

Pre-designed immersion heaters are available for all configurations. Heater options include, 1 phase, 120V and 3 phase in 240V and 460V options. Heater selections are designed to raise the sump temperature 10 to 15 deg F per hour dependent on ambient conditions. Consult Factory with ambient conditions for actual heating time and start up viscosity requirements. Single reduction drives (VP1) have single and dual heater options base on customer ambient conditions and requirements, Consult Factory for selection.



V-Class Nomenclature



Shaft Dimension Standard

M standard metric input and output shafts (diameter/bore length, key and keyway)

Size

- 107
- 117
- 127
- 133
- 137
- 143
- 145
- 147
- 153
- 155
- 157
- 163
- 165
- 167
- 173
- 175
- 177
- 187
- 193
- 195
- 197
- 203
- 207
- 213
- 215
- 217
- 223
- 225
- 227

Type

- P Parallel Shaft, Horizontal
- R Right Angle, Horizontal

LS Shaft

- C Solid Shaft
- T Hollow Shaft with TA Bushing
- J Hollow Shaft with Shrink Disc
- Q Hollow Shaft, Straight Bored & Keyed

Reduction

Number of reductions/stages in gear drive

Model

Model A.

Ratio

Exact ratio expressed as (5) characters including decimal point

Assembly Code

First two characters indicate shaft assembly, second two characters indicate accessory locations

Standard Catalog Variations

- A Backstop
- B 1 Shaft Fan
- D Electric Fan 60Hz 3Ph 220/380
- E Electric Fan 60Hz 3Ph 265/460
- F Electric Fan 60HZ 1Ph 110
- G Electric Fan 50HZ 3Ph 220/380
- H Immersion Heater Package
- J Integrated PA - 600 Series
- K DuraPlate Cooling Package
- M Lubrication Package
- N Condition Monitoring #1
- P Condition Monitoring #2
- Q Condition Monitoring #3
- R Alignment-Free Package
- S With Special Features
- T Top Motor Mount
- U Swingbase
- V Bedplate
- Y C-Face Motor Adapter
- Z Motor Bracket

How to Order

The following information is required to order a Falk V-Class gear drive to meet your application requirements. Much of the information listed below is also used to make a selection and is repeated here in the event a selection will be made by the district office.

Gear Drive

- Size, type and ratio
- High-speed shaft rpm and low-speed shaft rpm
- Service factor
- External shaft loads – thrust and overhung load
- Factors affecting thermal performance – ambient temperature, altitude, ambient air velocity and duty cycle
- Auxiliary equipment required – couplings, backstops, etc.
- High-speed shaft rotation when looking at shaft end for right angle (VR) units with shaft driven fan.
- Shaft assembly accessory location number (see Pages 14-17 for parallel shaft drives and Pages 142 & 143 for right angle drives)

Motor – Prime Mover

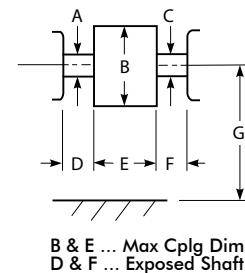
- Type – motor or engine
- Power rating – kW
- Speed – rpm
- Frame size – dimension prints if the Factory is to furnish mounting surface and/or mount the equipment
- Motor – type, class, weight, or any special characteristics (such as brake motor, explosion-proof, etc.)
- Identify if motor is to be furnished or installed by the Factory

Driven Machine

- Required power or torque
- Speed – rpm
- Application description – belt conveyor, agitator, etc.
- Service – duty cycle, hours per day, reversals per minute if reversing
- Ambient temperature range and operating conditions – outdoor, taconite dust, etc.

Auxiliary Equipment Furnished by the Factory

- Motors – if the Factory is to furnish, provide complete specifications
- Bedplates – supply drawing of motor and any auxiliary equipment not supplied by the Factory
- Flange motor adapters or motor brackets – supply drawing of motor
- Motor mount – supply drawing of motor and the required belt centers and mounting arrangement
- Backstops – specify direction of rotation of the low-speed shaft (CW or CCW) when facing the drive from the end of the exposed low-speed shaft extension. Also specify backstop location (right or left side facing HS end).
- Electric fan position, Hz and volts
- Couplings – specify size, type, drive and driven hub bores and keyways
- Coupling guards – furnish description of couplings and/or other equipment to be guarded, and all dimensions A through G below



- Swing base – supply frame size or drawing of the motor and HS coupling size or shaft gap

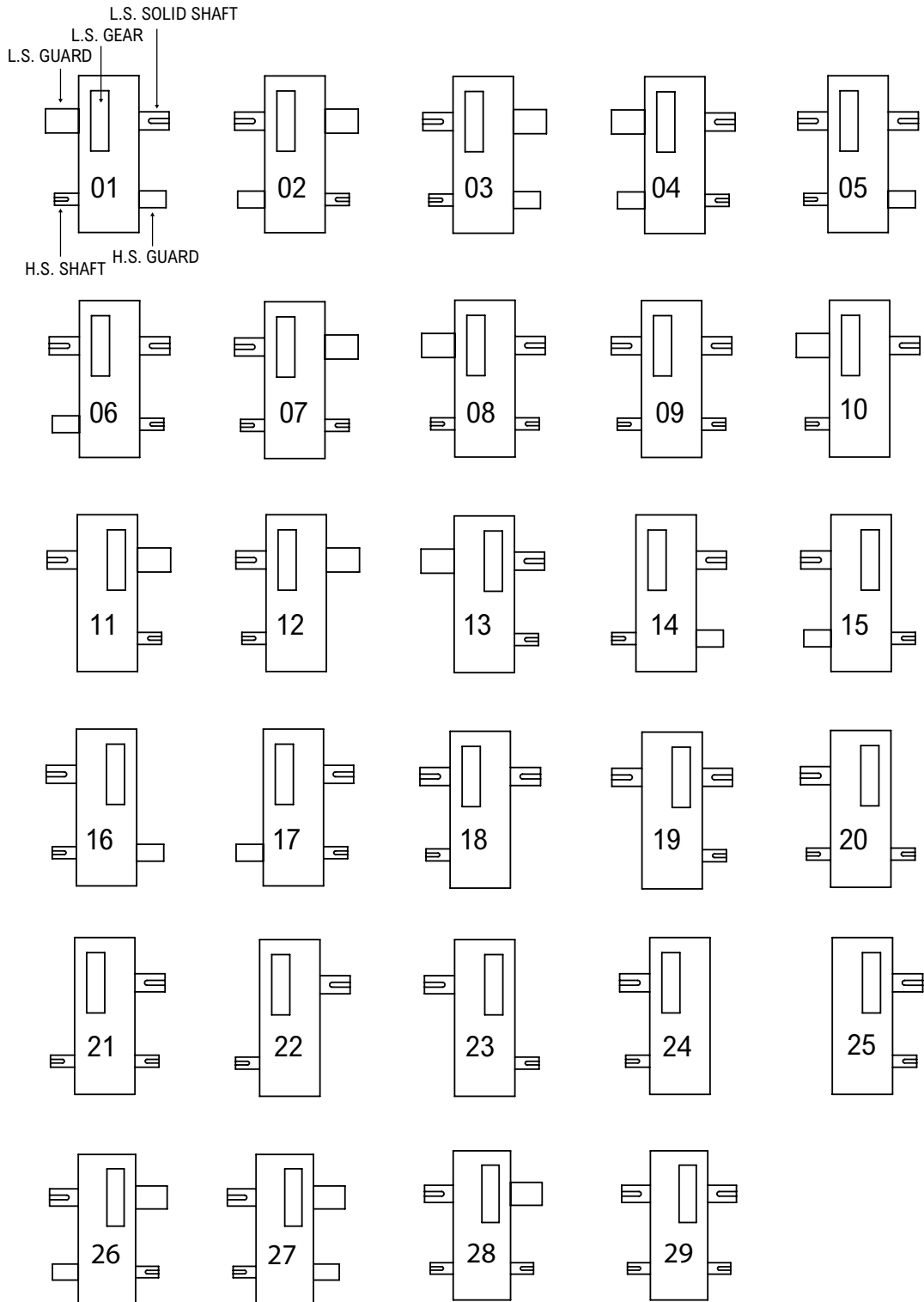
Special or Specification Requirements

Advise the Factory of any special project-related specifications such as: noise level specifications, bearing L10 requirements, etc.

Type VP Parallel Shaft Shaft Assemblies

Please specify the desired assembly number from the views below. Contact the Factory for inclined, wall-mounted, or other non-standard orientations.

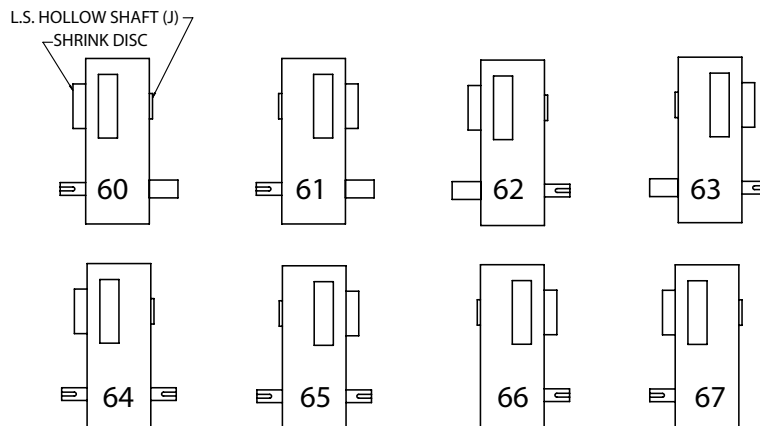
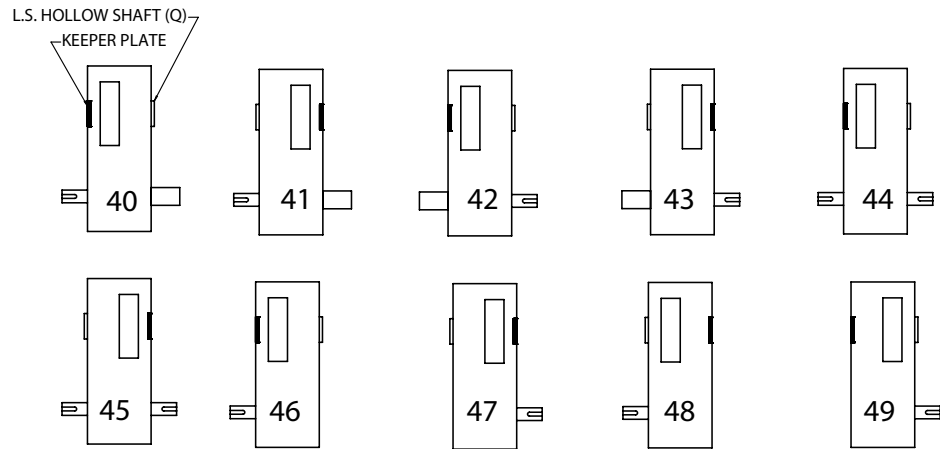
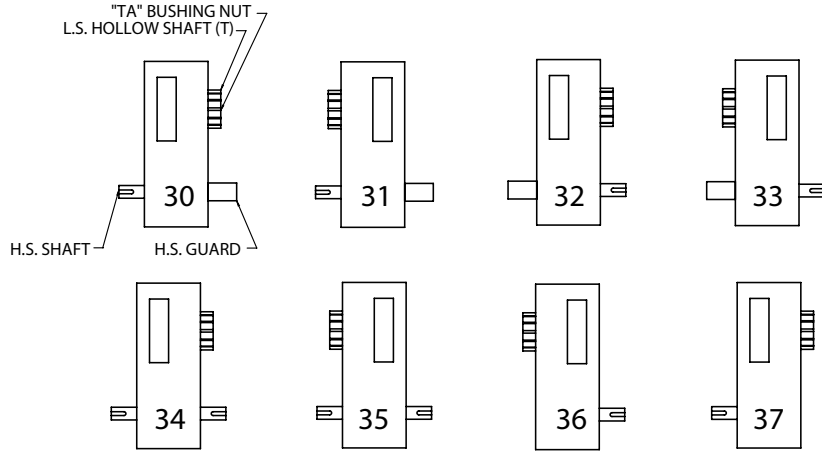
Shaft Assembly Codes



Type VP Parallel Shaft Shaft Assemblies

Please specify the desired assembly number from the views below. Contact the Factory for inclined or other non-standard orientations.

Shaft Assembly Codes

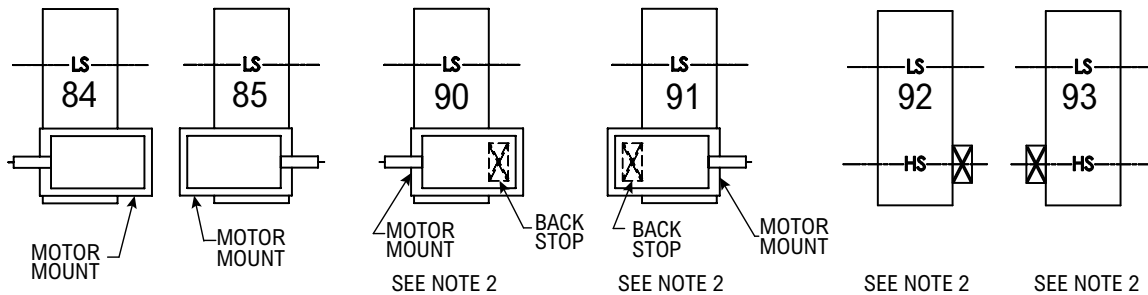
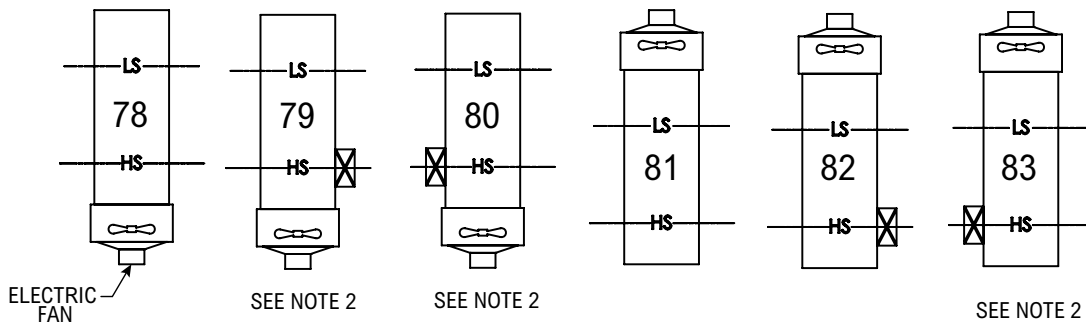
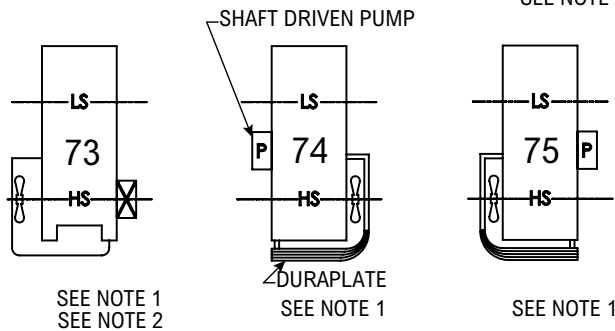
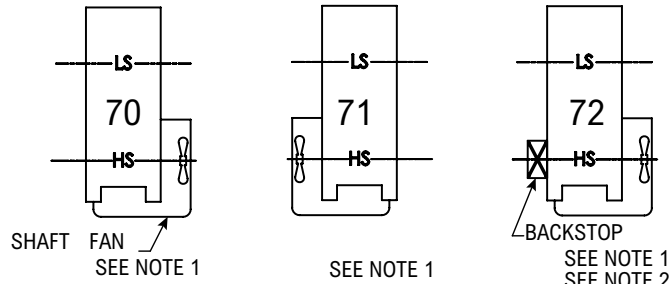


Type VP Parallel Shaft

Accessory Locations

Please specify the desired assembly number from the views below. Contact the Factory for inclined or other non-standard orientations.

Accessory Location Codes



Notes:

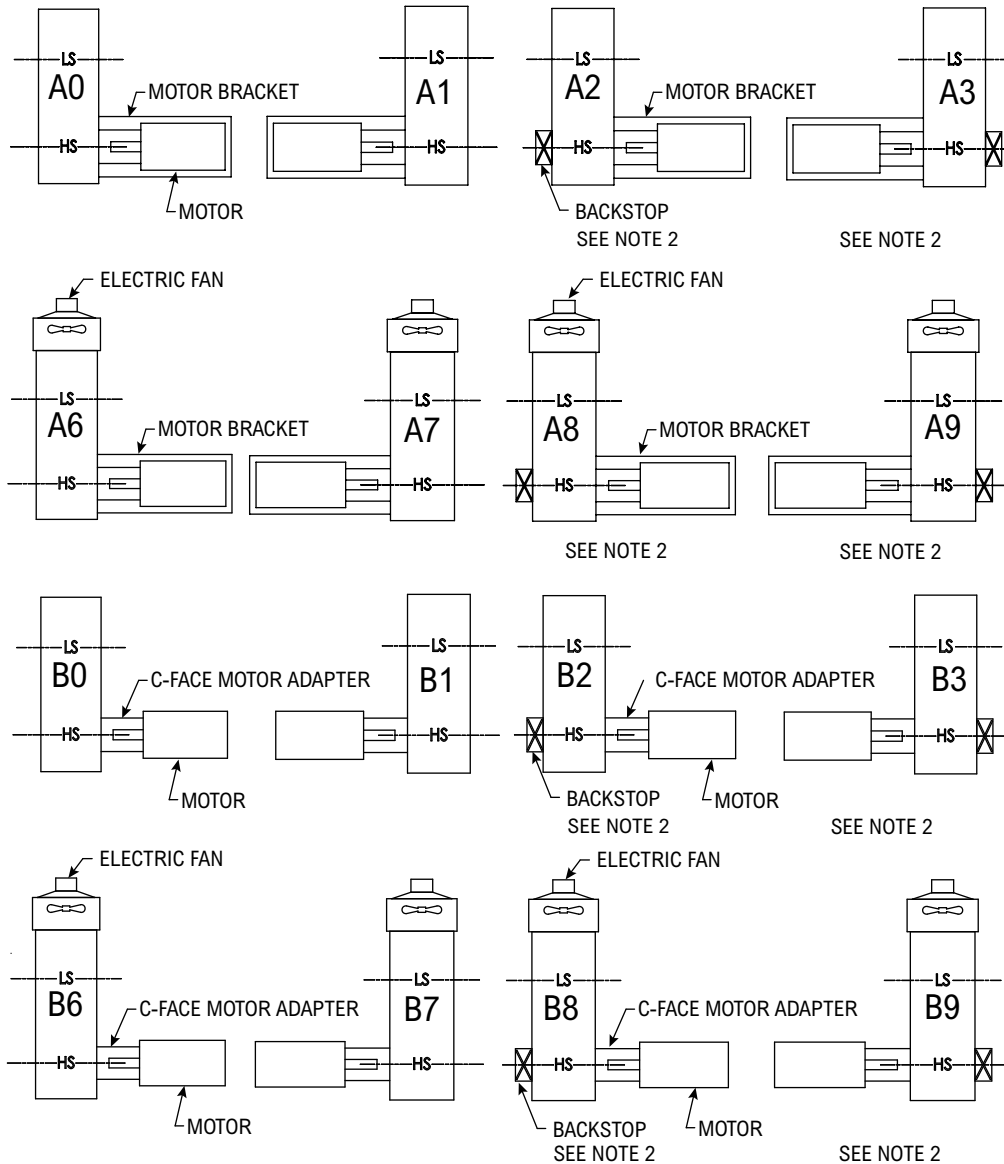
1. Shaft fans are located on H.S. extensions (figures 1 thru 49 and 60 thru 67).
2. Backstops are located on side opposite H.S. shaft extension (Figures 10-13, 18-19, 22-25, 36-37, 46-49, 66-67).

Type VP Parallel Shaft

Accessory Locations

Please specify the desired assembly number from the views below. Contact the Factory for inclined or other non-standard orientations.

Accessory Location Codes



Note:

- Backstops are located on side opposite H.S. shaft extension (Figures 10-13, 18-19, 22-25, 36-37, 46-49, 66-67).

Type VP1 Parallel Shaft

Power Ratings – kW/Single Reduction

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1800 | 1.25 | 1440 | 790 | 1108 | 2059 | 2023 | 2362 | 2977 | 3360 | 3762 | 4048 | 4529 | 5050 | 6050 | 6894 | 7792 | 8937 | 9610 | 10273 | 11544 |
| | 1.40 | 1286 | 760 | 1033 | 1975 | 1945 | 2271 | 2823 | 3186 | 3568 | 3819 | 4274 | 4765 | 5754 | 6557 | 7411 | 8255 | 8876 | 9488 | 11019 |
| | 1.60 | 1125 | 697 | 958 | 1797 | 1825 | 2131 | 2591 | 2925 | 3275 | 3589 | 4017 | 4478 | 5307 | 6048 | 6836 | 7569 | 8139 | 8700 | 10169 |
| | 1.80 | 1000 | 649 | 883 | 1678 | 1710 | 1997 | 2436 | 2749 | 3078 | 3281 | 3672 | 4094 | 5016 | 5716 | 6461 | 7110 | 7645 | 8172 | 9630 |
| | 2.00 | 900 | 602 | 833 | 1559 | 1589 | 1855 | 2227 | 2513 | 2814 | 3018 | 3377 | 3765 | 4555 | 5190 | 5866 | 6421 | 6904 | 7380 | 8772 |
| | 2.24 | 804 | 570 | 782 | 1375 | 1529 | 1785 | 2060 | 2325 | 2603 | 2849 | 3188 | 3554 | 4251 | 4844 | 5475 | 5960 | 6409 | 6851 | 8201 |
| | 2.50 | 720 | 515 | 707 | 1260 | 1410 | 1646 | 1967 | 2220 | 2485 | 2594 | 2903 | 3237 | 3945 | 4496 | 5082 | 5501 | 5915 | 6323 | 7633 |
| | 2.80 | 643 | 475 | 656 | 1146 | 1275 | 1489 | 1723 | 1945 | 2178 | 2424 | 2713 | 3025 | 3638 | 4146 | 4686 | 4831 | 5195 | 5553 | 7054 |
| | 3.15 | 571 | 441 | 606 | 1032 | 1150 | 1343 | 1640 | 1851 | 2073 | 2255 | 2524 | 2814 | 3330 | 3795 | 4289 | 4209 | 4526 | 4838 | 6249 |
| | 3.55 | 507 | 385 | 551 | 918 | 1110 | 1296 | 1469 | 1658 | 1856 | 2122 | 2375 | 2648 | 2872 | 3272 | 3699 | 4205 | 4521 | 4833 | 5561 |
| | 4.00 | 450 | 321 | 502 | 850 | 934 | 1091 | 1397 | 1577 | 1766 | 1925 | 2154 | 2402 | 2445 | 2786 | 3150 | 3563 | 3831 | 4096 | 4992 |
| 4.50 | 400 | 303 | 447 | 709 | 885 | 1034 | 1162 | 1312 | 1469 | 1734 | 1940 | 2163 | 2109 | 2403 | 2716 | 3002 | 3228 | 3450 | 3906 | |
| 5.00 | 360 | 300 | 374 | 617 | 759 | 886 | 964 | 1088 | 1218 | 1507 | 1686 | 1880 | 1838 | 2094 | 2367 | 2625 | 2823 | 3017 | 3484 | |
| 1500 | 1.25 | 1200 | 668 | 976 | 1716 | 1781 | 2079 | 2620 | 2957 | 3311 | 3563 | 3987 | 4445 | 5325 | 6068 | 6859 | 7448 | 8008 | 8561 | 10161 |
| | 1.40 | 1071 | 668 | 910 | 1646 | 1712 | 1999 | 2485 | 2805 | 3140 | 3361 | 3762 | 4194 | 5065 | 5771 | 6523 | 6879 | 7397 | 7907 | 9699 |
| | 1.60 | 938 | 613 | 843 | 1498 | 1606 | 1875 | 2281 | 2574 | 2882 | 3159 | 3535 | 3942 | 4671 | 5323 | 6017 | 6307 | 6782 | 7250 | 8950 |
| | 1.80 | 833 | 571 | 777 | 1398 | 1505 | 1757 | 2144 | 2420 | 2709 | 2878 | 3220 | 3590 | 4415 | 5031 | 5687 | 5925 | 6371 | 6810 | 8386 |
| | 2.00 | 750 | 524 | 733 | 1299 | 1398 | 1633 | 1960 | 2212 | 2477 | 2656 | 2972 | 3314 | 4009 | 4568 | 5163 | 5350 | 5753 | 6150 | 7721 |
| | 2.24 | 670 | 475 | 662 | 1146 | 1345 | 1571 | 1813 | 2046 | 2291 | 2507 | 2806 | 3129 | 3742 | 4263 | 4819 | 4967 | 5341 | 5709 | 7219 |
| | 2.50 | 600 | 430 | 612 | 1050 | 1241 | 1449 | 1731 | 1954 | 2187 | 2284 | 2555 | 2849 | 3473 | 3957 | 4473 | 4584 | 4929 | 5269 | 6361 |
| | 2.80 | 536 | 399 | 561 | 955 | 1123 | 1311 | 1517 | 1712 | 1917 | 2134 | 2388 | 2662 | 3174 | 3617 | 4088 | 4026 | 4329 | 4628 | 6055 |
| | 3.15 | 476 | 370 | 510 | 860 | 1012 | 1182 | 1444 | 1629 | 1825 | 1974 | 2209 | 2463 | 2842 | 3238 | 3660 | 3508 | 3772 | 4032 | 5207 |
| | 3.55 | 423 | 327 | 461 | 765 | 977 | 1141 | 1293 | 1459 | 1634 | 1768 | 1979 | 2206 | 2528 | 2880 | 3256 | 3504 | 3768 | 4028 | 4635 |
| | 4.00 | 375 | 283 | 442 | 712 | 823 | 960 | 1165 | 1314 | 1472 | 1654 | 1851 | 2064 | 2152 | 2453 | 2772 | 2969 | 3193 | 3413 | 4160 |
| 4.50 | 333 | 266 | 394 | 599 | 741 | 865 | 969 | 1093 | 1224 | 1445 | 1617 | 1802 | 1856 | 2115 | 2390 | 2501 | 2690 | 2875 | 3438 | |
| 5.00 | 300 | 254 | 322 | 524 | 643 | 751 | 805 | 908 | 1017 | 1256 | 1405 | 1567 | 1532 | 1745 | 1973 | 2187 | 2352 | 2514 | 3009 | |
| 1200 | 1.25 | 960 | 535 | 815 | 1373 | 1523 | 1778 | 2241 | 2529 | 2832 | 2933 | 3282 | 3659 | 4555 | 5190 | 5867 | 5958 | 6407 | 6848 | 8683 |
| | 1.40 | 857 | 535 | 755 | 1317 | 1464 | 1710 | 2126 | 2399 | 2686 | 2744 | 3071 | 3424 | 4332 | 4937 | 5580 | 5503 | 5918 | 6326 | 7861 |
| | 1.60 | 750 | 494 | 694 | 1198 | 1374 | 1604 | 1951 | 2202 | 2466 | 2555 | 2859 | 3188 | 3996 | 4553 | 5147 | 5046 | 5426 | 5800 | 7490 |
| | 1.80 | 667 | 456 | 633 | 1119 | 1288 | 1503 | 1834 | 2070 | 2318 | 2302 | 2576 | 2872 | 3577 | 4076 | 4608 | 4740 | 5097 | 5448 | 6709 |
| | 2.00 | 600 | 419 | 592 | 1039 | 1196 | 1396 | 1677 | 1892 | 2119 | 2272 | 2543 | 2835 | 3342 | 3808 | 4304 | 4280 | 4603 | 4920 | 6288 |
| | 2.24 | 536 | 382 | 530 | 917 | 1151 | 1344 | 1551 | 1750 | 1960 | 2145 | 2400 | 2676 | 3074 | 3503 | 3959 | 3974 | 4273 | 4567 | 5806 |
| | 2.50 | 480 | 349 | 491 | 840 | 1061 | 1239 | 1390 | 1569 | 1757 | 1943 | 2175 | 2425 | 2806 | 3198 | 3615 | 3667 | 3943 | 4215 | 5088 |
| | 2.80 | 429 | 326 | 453 | 764 | 960 | 1121 | 1297 | 1464 | 1640 | 1792 | 2005 | 2236 | 2539 | 2893 | 3271 | 3221 | 3463 | 3702 | 4844 |
| | 3.15 | 381 | 302 | 416 | 692 | 866 | 1011 | 1235 | 1394 | 1561 | 1579 | 1767 | 1970 | 2273 | 2590 | 2928 | 2806 | 3018 | 3226 | 4166 |
| | 3.55 | 338 | 266 | 377 | 622 | 836 | 976 | 1106 | 1248 | 1398 | 1415 | 1583 | 1765 | 2064 | 2352 | 2659 | 2804 | 3015 | 3222 | 3708 |
| | 4.00 | 300 | 242 | 362 | 574 | 704 | 821 | 935 | 1055 | 1182 | 1323 | 1481 | 1651 | 1784 | 2033 | 2298 | 2375 | 2554 | 2730 | 3328 |
| 4.50 | 267 | 228 | 326 | 489 | 605 | 707 | 785 | 886 | 992 | 1157 | 1294 | 1443 | 1582 | 1802 | 2037 | 2001 | 2152 | 2300 | 2941 | |
| 5.00 | 240 | 204 | 261 | 427 | 525 | 612 | 658 | 743 | 831 | 1012 | 1133 | 1263 | 1225 | 1396 | 1578 | 1750 | 1882 | 2011 | 2407 | |

Forced lubrication may be required. Consult factory

Type VP1 Parallel Shaft

Torque Ratings – kNm/Single Reduction

(kNm AT LOW SPEED SHAFT)

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1800 | 1,25 | 1440 | 5,26 | 7,35 | 13,7 | 13,7 | 16,0 | 20,1 | 22,6 | 25,3 | 27,4 | 30,6 | 34,2 | 40,3 | 45,9 | 51,9 | 59,6 | 64,0 | 68,5 | 78,1 |
| | 1,40 | 1286 | 5,63 | 7,76 | 14,7 | 14,6 | 17,1 | 21,0 | 23,7 | 26,5 | 28,7 | 32,1 | 35,8 | 42,1 | 47,9 | 54,2 | 62,4 | 67,1 | 71,7 | 83,1 |
| | 1,60 | 1125 | 5,96 | 8,16 | 15,4 | 15,4 | 17,9 | 22,3 | 25,2 | 28,2 | 30,1 | 33,6 | 37,5 | 44,7 | 51,0 | 57,6 | 65,1 | 70,0 | 74,9 | 86,3 |
| | 1,80 | 1000 | 6,22 | 8,57 | 15,9 | 16,1 | 18,8 | 23,3 | 26,3 | 29,4 | 31,8 | 35,6 | 39,7 | 47,4 | 54,0 | 61,1 | 66,8 | 71,8 | 76,8 | 91,4 |
| | 2,00 | 900 | 6,47 | 8,83 | 16,3 | 17,2 | 20,1 | 23,2 | 26,2 | 29,3 | 32,5 | 36,4 | 40,5 | 49,2 | 56,0 | 63,3 | 69,2 | 74,4 | 79,5 | 94,6 |
| | 2,24 | 804 | 6,72 | 9,24 | 16,1 | 18,2 | 21,2 | 24,1 | 27,2 | 30,5 | 33,4 | 37,4 | 41,7 | 50,9 | 58,1 | 65,6 | 70,6 | 75,9 | 81,2 | 97,9 |
| | 2,50 | 720 | 6,88 | 9,51 | 16,5 | 18,9 | 22,0 | 26,5 | 29,9 | 33,5 | 34,9 | 39,0 | 43,5 | 52,8 | 60,1 | 67,9 | 71,9 | 77,3 | 82,7 | 102,8 |
| | 2,80 | 643 | 7,14 | 9,78 | 16,7 | 18,6 | 21,7 | 26,1 | 29,4 | 32,9 | 35,8 | 40,1 | 44,7 | 54,6 | 62,2 | 70,3 | 71,0 | 76,3 | 81,6 | 104,5 |
| | 3,15 | 571 | 7,26 | 10,0 | 16,9 | 19,3 | 22,6 | 27,0 | 30,5 | 34,1 | 37,3 | 41,7 | 46,5 | 56,4 | 64,2 | 72,6 | 69,8 | 75,0 | 80,2 | 105,5 |
| | 3,55 | 507 | 7,35 | 10,2 | 17,1 | 20,6 | 24,1 | 27,5 | 31,0 | 34,8 | 40,6 | 45,5 | 50,7 | 54,5 | 62,1 | 70,2 | 83,0 | 89,3 | 95,4 | 106,2 |
| | 4,00 | 450 | 6,91 | 10,5 | 18,3 | 20,1 | 23,5 | 29,2 | 33,0 | 36,9 | 40,2 | 45,0 | 50,2 | 52,7 | 60,0 | 67,8 | 77,8 | 83,7 | 89,5 | 107,4 |
| | 4,50 | 400 | 7,13 | 10,7 | 17,2 | 21,4 | 25,0 | 27,2 | 30,7 | 34,4 | 42,0 | 47,0 | 52,4 | 50,0 | 57,0 | 64,4 | 74,9 | 80,6 | 86,1 | 91,4 |
| | 5,00 | 360 | 7,88 | 10,0 | 16,2 | 19,9 | 23,2 | 25,9 | 29,3 | 32,8 | 39,4 | 44,1 | 49,2 | 48,2 | 54,9 | 62,1 | 70,5 | 75,8 | 81,0 | 93,5 |
| 1500 | 1,25 | 1200 | 5,34 | 7,76 | 13,7 | 14,4 | 16,8 | 21,2 | 23,9 | 26,8 | 28,9 | 32,4 | 36,1 | 42,6 | 48,5 | 54,8 | 59,6 | 64,0 | 68,5 | 82,5 |
| | 1,40 | 1071 | 5,94 | 8,19 | 14,7 | 15,5 | 18,1 | 22,1 | 25,0 | 28,0 | 30,3 | 33,9 | 37,8 | 44,4 | 50,6 | 57,2 | 62,4 | 67,1 | 71,7 | 87,7 |
| | 1,60 | 938 | 6,30 | 8,62 | 15,4 | 16,2 | 18,9 | 23,6 | 26,6 | 29,8 | 31,7 | 35,5 | 39,6 | 47,2 | 53,8 | 60,8 | 65,1 | 70,0 | 74,9 | 91,2 |
| | 1,80 | 833 | 6,56 | 9,05 | 15,9 | 17,0 | 19,9 | 24,6 | 27,7 | 31,0 | 33,5 | 37,5 | 41,8 | 50,1 | 57,0 | 64,5 | 66,8 | 71,8 | 76,8 | 95,5 |
| | 2,00 | 750 | 6,75 | 9,33 | 16,3 | 18,2 | 21,2 | 24,5 | 27,6 | 30,9 | 34,3 | 38,4 | 42,8 | 51,9 | 59,2 | 66,9 | 69,2 | 74,4 | 79,5 | 99,9 |
| | 2,24 | 670 | 6,72 | 9,39 | 16,1 | 19,2 | 22,4 | 25,5 | 28,8 | 32,2 | 35,3 | 39,5 | 44,1 | 53,8 | 61,3 | 69,3 | 70,6 | 75,9 | 81,2 | 103,4 |
| | 2,50 | 600 | 6,88 | 9,89 | 16,5 | 19,9 | 23,3 | 28,0 | 31,6 | 35,4 | 36,8 | 41,2 | 45,9 | 55,7 | 63,5 | 71,8 | 71,9 | 77,3 | 82,7 | 102,8 |
| | 2,80 | 536 | 7,19 | 10,0 | 16,7 | 19,7 | 22,9 | 27,5 | 31,1 | 34,8 | 37,9 | 42,4 | 47,2 | 57,1 | 65,1 | 73,6 | 71,0 | 76,3 | 81,6 | 107,6 |
| | 3,15 | 476 | 7,32 | 10,2 | 16,9 | 20,4 | 23,8 | 28,5 | 32,2 | 36,1 | 39,1 | 43,8 | 48,8 | 57,7 | 65,8 | 74,3 | 69,8 | 75,0 | 80,2 | 105,5 |
| | 3,55 | 423 | 7,49 | 10,3 | 17,1 | 21,8 | 25,4 | 29,1 | 32,8 | 36,7 | 40,6 | 45,5 | 50,7 | 57,6 | 65,6 | 74,2 | 83,0 | 89,3 | 95,5 | 106,2 |
| | 4,00 | 375 | 7,30 | 11,1 | 18,4 | 21,3 | 24,8 | 29,2 | 33,0 | 36,9 | 41,5 | 46,4 | 51,8 | 55,6 | 63,4 | 71,6 | 77,8 | 83,7 | 89,5 | 107,4 |
| | 4,50 | 333 | 7,53 | 11,3 | 17,4 | 21,5 | 25,1 | 27,2 | 30,7 | 34,4 | 42,0 | 47,0 | 52,4 | 52,8 | 60,2 | 68,0 | 74,9 | 80,6 | 86,1 | 96,6 |
| | 5,00 | 300 | 7,99 | 10,4 | 16,5 | 20,2 | 23,6 | 26,0 | 29,3 | 32,8 | 39,4 | 44,1 | 49,2 | 48,2 | 54,9 | 62,1 | 70,5 | 75,8 | 81,0 | 96,9 |
| 1200 | 1,25 | 960 | 5,34 | 8,11 | 13,7 | 15,4 | 18,0 | 22,7 | 25,6 | 28,6 | 29,8 | 33,3 | 37,1 | 45,5 | 51,9 | 58,6 | 59,6 | 64,0 | 68,5 | 88,1 |
| | 1,40 | 857 | 5,94 | 8,50 | 14,7 | 16,5 | 19,3 | 23,7 | 26,7 | 29,9 | 30,9 | 34,6 | 38,6 | 47,5 | 54,1 | 61,2 | 62,4 | 67,1 | 71,7 | 88,9 |
| | 1,60 | 750 | 6,34 | 8,87 | 15,4 | 17,3 | 20,2 | 25,2 | 28,5 | 31,9 | 32,1 | 35,9 | 40,0 | 50,5 | 57,5 | 65,0 | 65,1 | 70,0 | 74,9 | 95,4 |
| | 1,80 | 667 | 6,56 | 9,21 | 15,9 | 18,2 | 21,3 | 26,3 | 29,6 | 33,2 | 33,5 | 37,5 | 41,8 | 50,7 | 57,8 | 65,3 | 66,8 | 71,8 | 76,8 | 95,5 |
| | 2,00 | 600 | 6,75 | 9,42 | 16,3 | 19,4 | 22,7 | 26,2 | 29,5 | 33,1 | 36,7 | 41,1 | 45,8 | 54,1 | 61,6 | 69,7 | 69,2 | 74,4 | 79,5 | 101,7 |
| | 2,24 | 536 | 6,76 | 9,39 | 16,1 | 20,5 | 24,0 | 27,3 | 30,8 | 34,4 | 37,8 | 42,3 | 47,1 | 55,3 | 63,0 | 71,2 | 70,6 | 75,9 | 81,2 | 104,0 |
| | 2,50 | 480 | 6,98 | 9,91 | 16,5 | 21,3 | 24,9 | 28,1 | 31,7 | 35,5 | 39,2 | 43,8 | 48,9 | 56,3 | 64,1 | 72,5 | 71,9 | 77,3 | 82,7 | 102,8 |
| | 2,80 | 429 | 7,35 | 10,1 | 16,7 | 21,0 | 24,5 | 29,4 | 33,2 | 37,2 | 39,7 | 44,5 | 49,6 | 57,1 | 65,1 | 73,6 | 71,0 | 76,3 | 81,6 | 107,6 |
| | 3,15 | 381 | 7,47 | 10,3 | 17,0 | 21,8 | 25,5 | 30,5 | 34,4 | 38,6 | 39,1 | 43,8 | 48,8 | 57,7 | 65,8 | 74,3 | 69,8 | 75,0 | 80,2 | 105,5 |
| | 3,55 | 338 | 7,62 | 10,5 | 17,3 | 23,3 | 27,2 | 31,1 | 35,1 | 39,3 | 40,6 | 45,5 | 50,7 | 58,8 | 67,0 | 75,7 | 83,0 | 89,3 | 95,5 | 106,2 |
| | 4,00 | 300 | 7,81 | 11,4 | 18,6 | 22,7 | 26,6 | 29,3 | 33,1 | 37,1 | 41,5 | 46,4 | 51,8 | 57,6 | 65,7 | 74,2 | 77,8 | 83,7 | 89,5 | 107,4 |
| | 4,50 | 267 | 8,05 | 11,7 | 17,7 | 22,0 | 25,7 | 27,6 | 31,1 | 34,8 | 42,0 | 47,0 | 52,4 | 56,3 | 64,1 | 72,5 | 74,9 | 80,6 | 86,1 | 103,3 |
| | 5,00 | 240 | 8,03 | 10,5 | 16,7 | 20,6 | 24,0 | 26,5 | 29,9 | 33,5 | 39,7 | 44,5 | 49,6 | 48,2 | 54,9 | 62,1 | 70,5 | 75,8 | 81,0 | 96,9 |

Forced lubrication may be required. Consult factory

Type VP1 Parallel Shaft

Power Ratings – kW/Single Reduction

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1800 | 1,25 | 1440 | | | | | | | | | | | |
| | 1,40 | 1286 | | | | | | | | | | | |
| | 1,60 | 1125 | 11700 | 12744 | 13830 | | | | | | | | |
| | 1,80 | 1000 | 10445 | 11377 | 12346 | 14277 | 16279 | | | | | | |
| | 2,00 | 900 | 9761 | 10632 | 11537 | 13260 | 15120 | 16030 | 16735 | 17576 | | | |
| | 2,24 | 804 | 8983 | 9785 | 10619 | 12503 | 14256 | 14165 | 14788 | 15532 | 16099 | 16914 | 17597 |
| | 2,50 | 720 | 8207 | 8939 | 9701 | 11599 | 13226 | 13141 | 13719 | 14409 | 15015 | 15775 | 16412 |
| | 2,80 | 643 | 7432 | 8095 | 8784 | 10692 | 12192 | 12113 | 12645 | 13281 | 13927 | 14632 | 15222 |
| | 3,15 | 571 | 6659 | 7253 | 7871 | 9669 | 11026 | 11080 | 11567 | 12149 | 12835 | 13484 | 14029 |
| | 3,55 | 507 | 6384 | 6953 | 7546 | 8552 | 9752 | 10007 | 10447 | 10973 | 11566 | 12152 | 12642 |
| | 4,00 | 450 | 5218 | 5684 | 6168 | 6823 | 7780 | 8733 | 9117 | 9575 | 10039 | 10547 | 10973 |
| | 4,50 | 400 | 4656 | 5071 | 5503 | 6075 | 6927 | 8448 | 8819 | 9263 | 8760 | 9204 | 9575 |
| 5,00 | 360 | 3860 | 4205 | 4563 | 5904 | 6732 | 7652 | 7989 | 8391 | 8475 | 8903 | 9263 | |
| 1500 | 1,25 | 1200 | 11354 | 12367 | 13421 | 14423 | 16446 | 16150 | 16860 | 17709 | 18954 | 19913 | 20717 |
| | 1,40 | 1071 | 10715 | 11671 | 12665 | 14138 | 16120 | 15522 | 16204 | 17019 | 18490 | 19426 | 20210 |
| | 1,60 | 938 | 9750 | 10620 | 11525 | 13349 | 15221 | 14734 | 15381 | 16155 | 17856 | 18759 | 19516 |
| | 1,80 | 833 | 8704 | 9481 | 10288 | 12566 | 14329 | 14261 | 14888 | 15637 | 16540 | 17378 | 18079 |
| | 2,00 | 750 | 8134 | 8860 | 9615 | 11671 | 13308 | 14109 | 14729 | 15470 | 15595 | 16384 | 17045 |
| | 2,24 | 670 | 7486 | 8154 | 8849 | 11005 | 12548 | 12468 | 13016 | 13671 | 14170 | 14887 | 15488 |
| | 2,50 | 600 | 6839 | 7449 | 8084 | 10209 | 11641 | 11566 | 12075 | 12683 | 13216 | 13885 | 14445 |
| | 2,80 | 536 | 6193 | 6746 | 7320 | 9411 | 10731 | 10661 | 11130 | 11690 | 12258 | 12879 | 13398 |
| | 3,15 | 476 | 5549 | 6044 | 6559 | 8058 | 9188 | 9752 | 10181 | 10693 | 11297 | 11869 | 12348 |
| | 3,55 | 423 | 5320 | 5795 | 6288 | 7127 | 8126 | 8808 | 9195 | 9658 | 10180 | 10696 | 11127 |
| | 4,00 | 375 | 4349 | 4737 | 5140 | 5997 | 6838 | 7686 | 8024 | 8428 | 8836 | 9283 | 9658 |
| | 4,50 | 333 | 3880 | 4226 | 4586 | 5062 | 5772 | 7287 | 7608 | 7990 | 7711 | 8101 | 8428 |
| 5,00 | 300 | 3217 | 3504 | 3802 | 4920 | 5610 | 6377 | 6657 | 6992 | 7459 | 7837 | 8153 | |
| 1200 | 1,25 | 960 | 9083 | 9894 | 10736 | 12337 | 14067 | 13815 | 14422 | 15148 | 16213 | 17034 | 17721 |
| | 1,40 | 857 | 8572 | 9337 | 10132 | 12077 | 13771 | 13277 | 13861 | 14558 | 15816 | 16617 | 17287 |
| | 1,60 | 750 | 7800 | 8496 | 9220 | 10956 | 12492 | 12603 | 13157 | 13819 | 15273 | 16046 | 16694 |
| | 1,80 | 667 | 6963 | 7584 | 8231 | 10205 | 11636 | 12198 | 12735 | 13375 | 14149 | 14865 | 15465 |
| | 2,00 | 600 | 6507 | 7088 | 7692 | 9452 | 10778 | 12069 | 12599 | 13233 | 13340 | 14015 | 14580 |
| | 2,24 | 536 | 5989 | 6523 | 7079 | 9413 | 10734 | 10665 | 11134 | 11694 | 12121 | 12734 | 13249 |
| | 2,50 | 480 | 5471 | 5959 | 6467 | 8733 | 9958 | 9894 | 10329 | 10849 | 11305 | 11877 | 12356 |
| | 2,80 | 429 | 4954 | 5396 | 5856 | 8050 | 9179 | 9120 | 9520 | 9999 | 10486 | 11016 | 11461 |
| | 3,15 | 381 | 4439 | 4836 | 5248 | 6446 | 7350 | 8236 | 8599 | 9031 | 9663 | 10152 | 10562 |
| | 3,55 | 338 | 4256 | 4636 | 5031 | 5701 | 6501 | 7534 | 7866 | 8261 | 8708 | 9149 | 9518 |
| | 4,00 | 300 | 3479 | 3789 | 4112 | 4798 | 5470 | 6565 | 6854 | 7199 | 7558 | 7941 | 8262 |
| | 4,50 | 267 | 3104 | 3381 | 3669 | 4050 | 4618 | 5830 | 6086 | 6392 | 6596 | 6929 | 7209 |
| 5,00 | 240 | 2573 | 2803 | 3042 | 3936 | 4488 | 5102 | 5326 | 5594 | 6380 | 6703 | 6974 | |

Forced lubrication may be required. Consult factory

Type VP1 Parallel Shaft

Torque Ratings – kNm/Single Reduction

(kNm AT LOW SPEED SHAFT)

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1800 | 1,25 | 1440 | | | | | | | | | | | |
| | 1,40 | 1286 | | | | | | | | | | | |
| | 1,60 | 1125 | 99 | 107 | 117 | | | | | | | | |
| | 1,80 | 1000 | 99 | 107 | 117 | 134 | 153 | | | | | | |
| | 2,00 | 900 | 105 | 115 | 125 | 138 | 158 | 167 | 175 | 183 | | | |
| | 2,24 | 804 | 108 | 117 | 127 | 147 | 168 | 167 | 174 | 183 | 194 | 204 | 212 |
| | 2,50 | 720 | 110 | 120 | 130 | 153 | 174 | 173 | 181 | 190 | 201 | 211 | 219 |
| | 2,80 | 643 | 111 | 121 | 132 | 158 | 180 | 179 | 187 | 196 | 207 | 217 | 226 |
| | 3,15 | 571 | 113 | 123 | 133 | 159 | 181 | 185 | 193 | 203 | 213 | 224 | 233 |
| | 3,55 | 507 | 124 | 135 | 146 | 160 | 182 | 187 | 195 | 205 | 216 | 227 | 236 |
| | 4,00 | 450 | 114 | 124 | 135 | 147 | 168 | 188 | 196 | 206 | 210 | 221 | 230 |
| | 4,50 | 400 | 111 | 121 | 131 | 146 | 166 | 199 | 208 | 218 | 211 | 221 | 230 |
| 5,00 | 360 | 104 | 113 | 123 | 155 | 176 | 205 | 214 | 225 | 222 | 233 | 243 | |
| 1500 | 1,25 | 1200 | 91 | 99 | 107 | 114 | 130 | 127 | 132 | 139 | 152 | 160 | 166 |
| | 1,40 | 1071 | 94 | 102 | 111 | 125 | 143 | 140 | 146 | 154 | 162 | 170 | 177 |
| | 1,60 | 938 | 99 | 107 | 117 | 136 | 156 | 151 | 157 | 165 | 181 | 190 | 198 |
| | 1,80 | 833 | 99 | 107 | 117 | 142 | 162 | 164 | 171 | 180 | 189 | 198 | 206 |
| | 2,00 | 750 | 105 | 115 | 125 | 146 | 167 | 177 | 184 | 194 | 195 | 205 | 214 |
| | 2,24 | 670 | 108 | 117 | 127 | 156 | 178 | 176 | 184 | 193 | 205 | 216 | 224 |
| | 2,50 | 600 | 110 | 120 | 130 | 161 | 184 | 183 | 191 | 200 | 212 | 223 | 232 |
| | 2,80 | 536 | 111 | 121 | 132 | 167 | 190 | 189 | 197 | 207 | 219 | 230 | 239 |
| | 3,15 | 476 | 113 | 123 | 133 | 159 | 181 | 195 | 204 | 214 | 225 | 237 | 246 |
| | 3,55 | 423 | 124 | 135 | 146 | 160 | 182 | 198 | 206 | 217 | 228 | 240 | 250 |
| | 4,00 | 375 | 114 | 124 | 135 | 155 | 177 | 199 | 207 | 218 | 222 | 233 | 243 |
| | 4,50 | 333 | 111 | 121 | 131 | 146 | 166 | 206 | 215 | 226 | 222 | 234 | 243 |
| 5,00 | 300 | 104 | 113 | 123 | 155 | 176 | 205 | 214 | 225 | 235 | 246 | 256 | |
| 1200 | 1,25 | 960 | 91 | 99 | 107 | 121 | 138 | 135 | 141 | 148 | 163 | 171 | 178 |
| | 1,40 | 857 | 94 | 102 | 111 | 134 | 152 | 150 | 156 | 164 | 173 | 182 | 189 |
| | 1,60 | 750 | 99 | 107 | 117 | 140 | 160 | 161 | 168 | 177 | 194 | 204 | 212 |
| | 1,80 | 667 | 99 | 107 | 117 | 144 | 164 | 175 | 183 | 192 | 202 | 212 | 221 |
| | 2,00 | 600 | 105 | 115 | 125 | 148 | 169 | 189 | 197 | 207 | 209 | 220 | 228 |
| | 2,24 | 536 | 108 | 117 | 127 | 166 | 190 | 189 | 197 | 207 | 220 | 231 | 240 |
| | 2,50 | 480 | 110 | 120 | 130 | 172 | 197 | 195 | 204 | 214 | 227 | 238 | 248 |
| | 2,80 | 429 | 111 | 121 | 132 | 178 | 203 | 202 | 211 | 221 | 234 | 245 | 255 |
| | 3,15 | 381 | 113 | 123 | 133 | 159 | 181 | 206 | 215 | 226 | 241 | 253 | 263 |
| | 3,55 | 338 | 124 | 135 | 146 | 160 | 182 | 211 | 221 | 232 | 244 | 257 | 267 |
| | 4,00 | 300 | 114 | 124 | 135 | 155 | 177 | 212 | 221 | 233 | 237 | 249 | 260 |
| | 4,50 | 267 | 111 | 121 | 131 | 146 | 166 | 206 | 215 | 226 | 238 | 250 | 260 |
| 5,00 | 240 | 104 | 113 | 123 | 155 | 176 | 205 | 214 | 225 | 251 | 263 | 274 | |

Forced lubrication may be required. Consult factory

Type VP1 Parallel Shaft

Power Ratings – kW/Single Reduction

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1000 | 1,25 | 800 | 446 | 680 | 1144 | 1341 | 1565 | 1960 | 2212 | 2477 | 2444 | 2735 | 3049 | 3895 | 4439 | 5017 | 4965 | 5339 | 5707 | 7236 |
| | 1,40 | 714 | 446 | 629 | 1097 | 1289 | 1505 | 1871 | 2112 | 2364 | 2287 | 2559 | 2853 | 3675 | 4188 | 4733 | 4586 | 4931 | 5271 | 6551 |
| | 1,60 | 625 | 413 | 578 | 998 | 1209 | 1412 | 1700 | 1919 | 2149 | 2129 | 2383 | 2657 | 3342 | 3808 | 4305 | 4205 | 4521 | 4833 | 6241 |
| | 1,80 | 556 | 384 | 527 | 932 | 1133 | 1323 | 1580 | 1783 | 1996 | 1919 | 2147 | 2394 | 2981 | 3397 | 3840 | 3950 | 4247 | 4540 | 5591 |
| | 2,00 | 500 | 355 | 495 | 866 | 1053 | 1229 | 1476 | 1666 | 1865 | 1936 | 2166 | 2415 | 2785 | 3173 | 3587 | 3567 | 3836 | 4100 | 5240 |
| | 2,24 | 446 | 324 | 447 | 764 | 1013 | 1183 | 1365 | 1541 | 1725 | 1809 | 2025 | 2257 | 2562 | 2919 | 3299 | 3311 | 3561 | 3806 | 4838 |
| | 2,50 | 400 | 295 | 417 | 705 | 934 | 1091 | 1158 | 1307 | 1464 | 1619 | 1812 | 2021 | 2339 | 2665 | 3012 | 3056 | 3286 | 3513 | 4240 |
| | 2,80 | 357 | 276 | 384 | 646 | 845 | 987 | 1142 | 1289 | 1443 | 1493 | 1671 | 1863 | 2116 | 2411 | 2725 | 2684 | 2886 | 3085 | 4037 |
| | 3,15 | 317 | 255 | 352 | 587 | 762 | 890 | 1040 | 1174 | 1315 | 1316 | 1473 | 1642 | 1894 | 2159 | 2440 | 2339 | 2515 | 2688 | 3472 |
| | 3,55 | 282 | 224 | 319 | 526 | 736 | 859 | 935 | 1056 | 1182 | 1179 | 1319 | 1471 | 1720 | 1960 | 2216 | 2336 | 2512 | 2685 | 3090 |
| | 4,00 | 250 | 213 | 306 | 479 | 604 | 706 | 793 | 895 | 1002 | 1111 | 1243 | 1386 | 1487 | 1694 | 1915 | 1980 | 2129 | 2275 | 2773 |
| 4,50 | 222 | 196 | 274 | 412 | 511 | 597 | 665 | 750 | 840 | 982 | 1098 | 1225 | 1328 | 1514 | 1711 | 1670 | 1796 | 1919 | 2455 | |
| 5,00 | 200 | 170 | 220 | 360 | 443 | 517 | 556 | 628 | 703 | 858 | 960 | 1071 | 1038 | 1182 | 1336 | 1470 | 1580 | 1689 | 2009 | |
| 900 | 1,25 | 720 | 401 | 612 | 1029 | 1245 | 1454 | 1764 | 1991 | 2229 | 2199 | 2461 | 2744 | 3506 | 3995 | 4516 | 4469 | 4805 | 5136 | 6513 |
| | 1,40 | 643 | 401 | 566 | 987 | 1197 | 1398 | 1692 | 1910 | 2139 | 2058 | 2303 | 2568 | 3307 | 3769 | 4260 | 4127 | 4438 | 4744 | 5896 |
| | 1,60 | 563 | 376 | 521 | 899 | 1123 | 1312 | 1530 | 1727 | 1934 | 1916 | 2144 | 2391 | 3008 | 3428 | 3874 | 3784 | 4069 | 4350 | 5617 |
| | 1,80 | 500 | 349 | 479 | 839 | 1053 | 1229 | 1422 | 1605 | 1797 | 1727 | 1932 | 2154 | 2683 | 3057 | 3456 | 3555 | 3823 | 4086 | 5032 |
| | 2,00 | 450 | 323 | 451 | 781 | 978 | 1142 | 1371 | 1547 | 1732 | 1742 | 1950 | 2174 | 2506 | 2856 | 3228 | 3210 | 3452 | 3690 | 4716 |
| | 2,24 | 402 | 294 | 406 | 695 | 941 | 1099 | 1268 | 1431 | 1602 | 1628 | 1822 | 2032 | 2305 | 2627 | 2969 | 2980 | 3205 | 3426 | 4354 |
| | 2,50 | 360 | 268 | 378 | 641 | 868 | 1013 | 1042 | 1177 | 1317 | 1458 | 1631 | 1819 | 2105 | 2398 | 2711 | 2750 | 2957 | 3161 | 3816 |
| | 2,80 | 321 | 250 | 349 | 587 | 785 | 917 | 1059 | 1196 | 1339 | 1344 | 1504 | 1677 | 1904 | 2170 | 2453 | 2416 | 2597 | 2777 | 3633 |
| | 3,15 | 286 | 231 | 319 | 533 | 708 | 827 | 946 | 1068 | 1196 | 1184 | 1325 | 1478 | 1705 | 1943 | 2196 | 2105 | 2263 | 2419 | 3124 |
| | 3,55 | 254 | 203 | 289 | 477 | 682 | 797 | 850 | 959 | 1074 | 1073 | 1201 | 1339 | 1548 | 1764 | 1994 | 2103 | 2261 | 2417 | 2781 |
| | 4,00 | 225 | 198 | 277 | 431 | 548 | 640 | 720 | 813 | 910 | 1010 | 1131 | 1260 | 1352 | 1541 | 1742 | 1783 | 1918 | 2050 | 2496 |
| 4,50 | 200 | 177 | 248 | 373 | 464 | 541 | 603 | 680 | 762 | 891 | 997 | 1112 | 1208 | 1376 | 1556 | 1519 | 1634 | 1746 | 2211 | |
| 5,00 | 180 | 153 | 199 | 326 | 401 | 468 | 504 | 569 | 637 | 779 | 871 | 972 | 943 | 1074 | 1214 | 1336 | 1437 | 1536 | 1828 | |

Type VP1 Parallel Shaft

Torque Ratings – kNm/Single Reduction

(kNm AT LOW SPEED SHAFT)

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1000 | 1,25 | 800 | 5,34 | 8,11 | 13,7 | 16,3 | 19,0 | 23,8 | 26,8 | 30,0 | 29,8 | 33,3 | 37,1 | 46,7 | 53,2 | 60,2 | 59,6 | 64,0 | 68,5 | 88,1 |
| | 1,40 | 714 | 5,94 | 8,50 | 14,7 | 17,5 | 20,4 | 25,0 | 28,2 | 31,6 | 30,9 | 34,6 | 38,6 | 48,4 | 55,1 | 62,3 | 62,4 | 67,1 | 71,7 | 88,9 |
| | 1,60 | 625 | 6,36 | 8,87 | 15,4 | 18,3 | 21,4 | 26,4 | 29,8 | 33,3 | 32,1 | 35,9 | 40,0 | 50,7 | 57,8 | 65,3 | 65,1 | 70,0 | 74,9 | 95,4 |
| | 1,80 | 556 | 6,63 | 9,21 | 15,9 | 19,2 | 22,5 | 27,2 | 30,6 | 34,3 | 33,5 | 37,5 | 41,8 | 50,7 | 57,8 | 65,3 | 66,8 | 71,8 | 76,8 | 95,5 |
| | 2,00 | 500 | 6,87 | 9,46 | 16,3 | 20,5 | 23,9 | 27,7 | 31,2 | 34,9 | 37,5 | 42,0 | 46,8 | 54,1 | 61,6 | 69,7 | 69,2 | 74,4 | 79,5 | 101,7 |
| | 2,24 | 446 | 6,88 | 9,50 | 16,1 | 21,7 | 25,3 | 28,8 | 32,5 | 36,4 | 38,2 | 42,8 | 47,7 | 55,3 | 63,0 | 71,2 | 70,6 | 75,9 | 81,2 | 104,0 |
| | 2,50 | 400 | 7,09 | 10,1 | 16,6 | 22,5 | 26,3 | 28,1 | 31,7 | 35,5 | 39,2 | 43,8 | 48,9 | 56,3 | 64,1 | 72,5 | 71,9 | 77,3 | 82,7 | 102,8 |
| | 2,80 | 357 | 7,45 | 10,3 | 17,0 | 22,2 | 25,9 | 31,1 | 35,1 | 39,3 | 39,7 | 44,5 | 49,6 | 57,1 | 65,1 | 73,6 | 71,0 | 76,3 | 81,6 | 107,6 |
| | 3,15 | 317 | 7,57 | 10,5 | 17,3 | 23,1 | 26,9 | 30,8 | 34,8 | 39,0 | 39,1 | 43,8 | 48,8 | 57,7 | 65,8 | 74,3 | 69,8 | 75,0 | 80,2 | 105,5 |
| | 3,55 | 282 | 7,71 | 10,6 | 17,6 | 24,6 | 28,7 | 31,5 | 35,6 | 39,8 | 40,6 | 45,5 | 50,7 | 58,8 | 67,0 | 75,7 | 83,0 | 89,3 | 95,5 | 106,2 |
| | 4,00 | 250 | 8,25 | 11,5 | 18,6 | 23,4 | 27,4 | 29,8 | 33,7 | 37,7 | 41,8 | 46,8 | 52,2 | 57,6 | 65,7 | 74,2 | 77,8 | 83,7 | 89,5 | 107,4 |
| | 4,50 | 222 | 8,29 | 11,8 | 18,0 | 22,3 | 26,0 | 28,0 | 31,6 | 35,4 | 42,8 | 47,9 | 53,4 | 56,7 | 64,6 | 73,1 | 75,1 | 80,7 | 86,3 | 103,5 |
| | 5,00 | 200 | 8,03 | 10,6 | 16,9 | 20,9 | 24,4 | 26,9 | 30,4 | 34,0 | 40,4 | 45,2 | 50,4 | 49,0 | 55,8 | 63,1 | 71,0 | 76,3 | 81,6 | 97,1 |
| | 900 | 1,25 | 720 | 5,34 | 8,11 | 13,7 | 16,8 | 19,6 | 23,8 | 26,8 | 30,0 | 29,8 | 33,3 | 37,1 | 46,7 | 53,2 | 60,2 | 59,6 | 64,0 | 68,5 | 88,1 |
| 1,40 | | 643 | 5,94 | 8,50 | 14,7 | 18,0 | 21,0 | 25,1 | 28,4 | 31,8 | 30,9 | 34,6 | 38,6 | 48,4 | 55,1 | 62,3 | 62,4 | 67,1 | 71,7 | 88,9 |
| 1,60 | | 563 | 6,43 | 8,87 | 15,4 | 18,9 | 22,1 | 26,4 | 29,8 | 33,3 | 32,1 | 35,9 | 40,0 | 50,7 | 57,8 | 65,3 | 65,1 | 70,0 | 74,9 | 95,4 |
| 1,80 | | 500 | 6,69 | 9,30 | 15,9 | 19,9 | 23,2 | 27,2 | 30,6 | 34,3 | 33,5 | 37,5 | 41,8 | 50,7 | 57,8 | 65,3 | 66,8 | 71,8 | 76,8 | 95,5 |
| 2,00 | | 450 | 6,94 | 9,56 | 16,3 | 21,2 | 24,7 | 28,5 | 32,2 | 36,1 | 37,5 | 42,0 | 46,8 | 54,1 | 61,6 | 69,7 | 69,2 | 74,4 | 79,5 | 101,7 |
| 2,24 | | 402 | 6,94 | 9,59 | 16,3 | 22,4 | 26,1 | 29,7 | 33,5 | 37,5 | 38,2 | 42,8 | 47,7 | 55,3 | 63,0 | 71,2 | 70,6 | 75,9 | 81,2 | 104,0 |
| 2,50 | | 360 | 7,15 | 10,2 | 16,8 | 23,2 | 27,1 | 28,1 | 31,7 | 35,5 | 39,2 | 43,8 | 48,9 | 56,3 | 64,1 | 72,5 | 71,9 | 77,3 | 82,7 | 102,8 |
| 2,80 | | 321 | 7,51 | 10,4 | 17,1 | 22,9 | 26,7 | 32,0 | 36,2 | 40,5 | 39,7 | 44,5 | 49,6 | 57,1 | 65,1 | 73,6 | 71,0 | 76,3 | 81,6 | 107,6 |
| 3,15 | | 286 | 7,62 | 10,6 | 17,5 | 23,8 | 27,8 | 31,2 | 35,2 | 39,4 | 39,1 | 43,8 | 48,8 | 57,7 | 65,8 | 74,3 | 69,8 | 75,0 | 80,2 | 105,5 |
| 3,55 | | 254 | 7,76 | 10,7 | 17,7 | 25,3 | 29,6 | 31,8 | 35,9 | 40,2 | 41,1 | 46,0 | 51,3 | 58,8 | 67,0 | 75,7 | 83,0 | 89,3 | 95,5 | 106,2 |
| 4,00 | | 225 | 8,51 | 11,6 | 18,6 | 23,6 | 27,6 | 30,1 | 34,0 | 38,1 | 42,2 | 47,3 | 52,7 | 58,2 | 66,4 | 75,0 | 77,9 | 83,8 | 89,6 | 107,4 |
| 4,50 | | 200 | 8,33 | 11,9 | 18,1 | 22,4 | 26,2 | 28,2 | 31,9 | 35,7 | 43,2 | 48,3 | 53,8 | 57,3 | 65,3 | 73,8 | 75,9 | 81,6 | 87,2 | 103,5 |
| 5,00 | | 180 | 8,03 | 10,7 | 17,0 | 21,0 | 24,5 | 27,1 | 30,6 | 34,2 | 40,8 | 45,6 | 50,9 | 49,4 | 56,3 | 63,7 | 71,7 | 77,1 | 82,4 | 98,1 |

Type VP1 Parallel Shaft

Power Ratings – kW/Single Reduction

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1000 | 1,25 | 800 | 7569 | 8245 | 8947 | 10654 | 12148 | 12159 | 12694 | 13333 | 14270 | 14993 | 15598 |
| | 1,40 | 714 | 7143 | 7780 | 8443 | 10065 | 11476 | 11686 | 12200 | 12814 | 13921 | 14626 | 15216 |
| | 1,60 | 625 | 6500 | 7080 | 7683 | 9130 | 10410 | 11093 | 11581 | 12163 | 13443 | 14124 | 14694 |
| | 1,80 | 556 | 5803 | 6320 | 6859 | 8504 | 9697 | 10737 | 11209 | 11773 | 12453 | 13084 | 13612 |
| | 2,00 | 500 | 5423 | 5907 | 6410 | 7877 | 8982 | 10573 | 11038 | 11593 | 11741 | 12336 | 12833 |
| | 2,24 | 446 | 4991 | 5436 | 5899 | 8286 | 9448 | 9272 | 9679 | 10166 | 10669 | 11209 | 11661 |
| | 2,50 | 400 | 4559 | 4966 | 5389 | 7576 | 8638 | 8467 | 8839 | 9284 | 9950 | 10454 | 10876 |
| | 2,80 | 357 | 4129 | 4497 | 4880 | 6855 | 7816 | 7664 | 8001 | 8403 | 9229 | 9696 | 10088 |
| | 3,15 | 317 | 3700 | 4030 | 4373 | 5372 | 6125 | 6864 | 7165 | 7526 | 8505 | 8936 | 9297 |
| | 3,55 | 282 | 3547 | 3863 | 4192 | 4751 | 5418 | 6372 | 6653 | 6987 | 7665 | 8053 | 8378 |
| | 4,00 | 250 | 2899 | 3158 | 3427 | 3998 | 4559 | 5471 | 5712 | 5999 | 6653 | 6990 | 7272 |
| | 4,50 | 222 | 2587 | 2817 | 3057 | 3375 | 3848 | 4858 | 5072 | 5327 | 5805 | 6099 | 6345 |
| 5,00 | 200 | 2144 | 2336 | 2535 | 3280 | 3740 | 4251 | 4438 | 4662 | 5323 | 5592 | 5818 | |
| 900 | 1,25 | 720 | 6812 | 7420 | 8052 | 9588 | 10933 | 11295 | 11792 | 12385 | 13256 | 13927 | 14489 |
| | 1,40 | 643 | 6429 | 7002 | 7599 | 9058 | 10328 | 10855 | 11333 | 11903 | 12931 | 13586 | 14134 |
| | 1,60 | 563 | 5850 | 6372 | 6915 | 8217 | 9369 | 10304 | 10757 | 11298 | 12488 | 13120 | 13649 |
| | 1,80 | 500 | 5222 | 5688 | 6173 | 7654 | 8727 | 9793 | 10224 | 10738 | 11568 | 12153 | 12644 |
| | 2,00 | 450 | 4880 | 5316 | 5769 | 7089 | 8084 | 9516 | 9934 | 10434 | 10907 | 11459 | 11921 |
| | 2,24 | 402 | 4492 | 4893 | 5309 | 7469 | 8516 | 8344 | 8711 | 9150 | 9910 | 10412 | 10832 |
| | 2,50 | 360 | 4103 | 4470 | 4850 | 6818 | 7775 | 7620 | 7955 | 8355 | 9243 | 9711 | 10103 |
| | 2,80 | 321 | 3716 | 4047 | 4392 | 6169 | 7034 | 6897 | 7201 | 7563 | 8573 | 9007 | 9370 |
| | 3,15 | 286 | 3330 | 3627 | 3936 | 4835 | 5513 | 6177 | 6449 | 6773 | 7809 | 8204 | 8536 |
| | 3,55 | 254 | 3192 | 3477 | 3773 | 4276 | 4876 | 5735 | 5987 | 6289 | 6985 | 7338 | 7634 |
| | 4,00 | 225 | 2609 | 2842 | 3084 | 3598 | 4103 | 4924 | 5140 | 5399 | 6180 | 6493 | 6755 |
| | 4,50 | 200 | 2328 | 2536 | 2752 | 3037 | 3463 | 4372 | 4565 | 4794 | 5390 | 5663 | 5891 |
| 5,00 | 180 | 1943 | 2117 | 2297 | 2952 | 3366 | 3826 | 3994 | 4195 | 4791 | 5033 | 5236 | |

Type VP1 Parallel Shaft

Torque Ratings – kNm/Single Reduction

(kNm AT LOW SPEED SHAFT)

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1000 | 1,25 | 800 | 90,8 | 98,9 | 107,3 | 125,9 | 143,5 | 142,9 | 149,2 | 156,7 | 172,0 | 180,7 | 188,0 |
| | 1,40 | 714 | 94,0 | 102,4 | 111,1 | 133,5 | 152,2 | 158,1 | 165,1 | 173,4 | 182,8 | 192,1 | 199,8 |
| | 1,60 | 625 | 98,6 | 107,4 | 116,5 | 140,0 | 159,7 | 170,1 | 177,6 | 186,6 | 204,8 | 215,1 | 223,8 |
| | 1,80 | 556 | 98,7 | 107,5 | 116,7 | 144,1 | 164,3 | 185,2 | 193,3 | 203,0 | 213,4 | 224,2 | 233,2 |
| | 2,00 | 500 | 105,3 | 114,7 | 124,5 | 147,9 | 168,6 | 198,5 | 207,2 | 217,7 | 220,8 | 232,0 | 241,3 |
| | 2,24 | 446 | 107,7 | 117,3 | 127,3 | 175,8 | 200,5 | 196,7 | 205,4 | 215,7 | 231,9 | 243,6 | 253,5 |
| | 2,50 | 400 | 109,7 | 119,5 | 129,7 | 179,4 | 204,6 | 200,5 | 209,3 | 219,9 | 239,4 | 251,5 | 261,6 |
| | 2,80 | 357 | 111,4 | 121,4 | 131,7 | 182,2 | 207,7 | 203,7 | 212,6 | 223,3 | 246,8 | 259,3 | 269,7 |
| | 3,15 | 317 | 112,7 | 122,8 | 133,2 | 158,8 | 181,0 | 206,0 | 215,1 | 225,9 | 254,2 | 267,1 | 277,9 |
| | 3,55 | 282 | 123,5 | 134,5 | 146,0 | 160,0 | 182,4 | 214,6 | 224,0 | 235,3 | 258,0 | 271,0 | 281,9 |
| | 4,00 | 250 | 114,0 | 124,2 | 134,8 | 155,0 | 176,7 | 212,1 | 221,4 | 232,5 | 250,8 | 263,5 | 274,1 |
| | 4,50 | 222 | 111,2 | 121,1 | 131,4 | 146,0 | 166,4 | 205,9 | 215,0 | 225,8 | 251,1 | 263,8 | 274,5 |
| | 5,00 | 200 | 103,7 | 112,9 | 122,6 | 154,7 | 176,4 | 205,4 | 214,4 | 225,2 | 251,0 | 263,7 | 274,4 |
| 900 | 1,25 | 720 | 90,8 | 98,9 | 107,3 | 125,9 | 143,5 | 147,5 | 154,0 | 161,8 | 177,5 | 186,5 | 194,0 |
| | 1,40 | 643 | 94,0 | 102,4 | 111,1 | 133,5 | 152,2 | 163,2 | 170,4 | 179,0 | 188,7 | 198,2 | 206,2 |
| | 1,60 | 563 | 98,6 | 107,4 | 116,5 | 140,0 | 159,7 | 175,6 | 183,3 | 192,5 | 211,3 | 222,0 | 231,0 |
| | 1,80 | 500 | 98,7 | 107,5 | 116,7 | 144,1 | 164,3 | 187,7 | 195,9 | 205,8 | 220,2 | 231,4 | 240,7 |
| | 2,00 | 450 | 105,3 | 114,7 | 124,5 | 147,9 | 168,6 | 198,5 | 207,2 | 217,7 | 227,9 | 239,4 | 249,1 |
| | 2,24 | 402 | 107,7 | 117,3 | 127,3 | 176,1 | 200,8 | 196,7 | 205,4 | 215,7 | 239,3 | 251,5 | 261,6 |
| | 2,50 | 360 | 109,7 | 119,5 | 129,7 | 179,4 | 204,6 | 200,5 | 209,3 | 219,9 | 247,1 | 259,6 | 270,0 |
| | 2,80 | 321 | 111,4 | 121,4 | 131,7 | 182,2 | 207,7 | 203,7 | 212,6 | 223,3 | 254,7 | 267,6 | 278,4 |
| | 3,15 | 286 | 112,7 | 122,8 | 133,2 | 158,8 | 181,0 | 206,0 | 215,1 | 225,9 | 259,4 | 272,5 | 283,5 |
| | 3,55 | 254 | 123,5 | 134,5 | 146,0 | 160,0 | 182,4 | 214,6 | 224,0 | 235,3 | 261,2 | 274,4 | 285,5 |
| | 4,00 | 225 | 114,0 | 124,2 | 134,8 | 155,0 | 176,7 | 212,1 | 221,4 | 232,5 | 258,8 | 271,9 | 282,9 |
| | 4,50 | 200 | 111,2 | 121,1 | 131,4 | 146,0 | 166,4 | 205,9 | 215,0 | 225,8 | 259,0 | 272,1 | 283,1 |
| | 5,00 | 180 | 104,4 | 113,7 | 123,4 | 154,7 | 176,4 | 205,4 | 214,4 | 225,2 | 251,0 | 263,7 | 274,4 |

Type VP2 Parallel Shaft

Power Ratings – kW/Double Reduction

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1800 | 5,00 | 360 | | | | | | | | | | | | | | | 2538 | 2781 | 3114 | |
| | 5,60 | 321 | 193 | 287 | 490 | 544 | 653 | 779 | 881 | 952 | 1185 | 1282 | 1427 | 1503 | 1695 | 1973 | 2458 | 2693 | 3016 | 3114 |
| | 6,30 | 286 | 182 | 287 | 461 | 544 | 653 | 779 | 881 | 952 | 1181 | 1278 | 1423 | 1507 | 1699 | 1978 | 2353 | 2579 | 2888 | 3019 |
| | 7,10 | 254 | 180 | 257 | 412 | 544 | 653 | 728 | 824 | 890 | 1048 | 1134 | 1262 | 1419 | 1600 | 1862 | 1937 | 2123 | 2377 | 2887 |
| | 8,00 | 225 | 147 | 255 | 376 | 472 | 566 | 650 | 736 | 794 | 932 | 1008 | 1122 | 1174 | 1323 | 1541 | 1765 | 1934 | 2166 | 2377 |
| | 9,00 | 200 | 139 | 230 | 352 | 472 | 566 | 657 | 743 | 802 | 921 | 996 | 1109 | 1221 | 1376 | 1602 | 1688 | 1850 | 2071 | 2352 |
| | 10,0 | 180 | 138 | 198 | 314 | 431 | 517 | 581 | 657 | 710 | 816 | 883 | 983 | 1108 | 1249 | 1454 | 1551 | 1700 | 1904 | 2208 |
| | 11,2 | 161 | 119 | 204 | 309 | 375 | 449 | 496 | 562 | 606 | 753 | 815 | 907 | 922 | 1039 | 1210 | 1328 | 1456 | 1630 | 1923 |
| | 12,5 | 144 | 112 | 184 | 289 | 357 | 428 | 486 | 549 | 593 | 721 | 780 | 869 | 931 | 1049 | 1222 | 1266 | 1387 | 1554 | 1770 |
| | 14,0 | 129 | 113 | 158 | 257 | 336 | 403 | 442 | 500 | 540 | 631 | 683 | 760 | 846 | 954 | 1111 | 1125 | 1233 | 1380 | 1656 |
| | 16,0 | 113 | 95 | 150 | 240 | 287 | 344 | 398 | 450 | 486 | 579 | 626 | 697 | 706 | 796 | 926 | 961 | 1053 | 1179 | 1436 |
| | 18,0 | 100 | 90 | 134 | 210 | 256 | 307 | 356 | 402 | 435 | 510 | 552 | 615 | 662 | 746 | 868 | 914 | 1002 | 1122 | 1281 |
| | 20,0 | 90 | 87 | 117 | 199 | 241 | 289 | 323 | 366 | 395 | 446 | 483 | 537 | 601 | 677 | 788 | 815 | 893 | 1000 | 1195 |
| | 22,4 | 80 | 56 | 105 | 150 | 174 | 208 | 264 | 299 | 323 | 372 | 402 | 448 | 531 | 599 | 697 | 695 | 762 | 853 | 1017 |
| | 25,0 | 72 | 56 | 96 | 150 | 174 | 208 | 251 | 284 | 307 | 372 | 402 | 448 | 480 | 541 | 630 | 660 | 724 | 810 | 927 |
| 28,0 | 64 | 56 | 87 | 143 | 172 | 206 | 228 | 258 | 279 | 329 | 356 | 396 | 435 | 491 | 571 | | | | 864 | |
| 1500 | 5,00 | 300 | | | | | | | | | | | | | | | 2233 | 2448 | 2741 | |
| | 5,60 | 268 | 170 | 239 | 431 | 472 | 566 | 686 | 776 | 838 | 1043 | 1128 | 1256 | 1323 | 1492 | 1737 | 2127 | 2331 | 2610 | 2741 |
| | 6,30 | 238 | 160 | 239 | 406 | 472 | 566 | 686 | 776 | 838 | 1040 | 1125 | 1252 | 1326 | 1495 | 1741 | 2012 | 2205 | 2469 | 2657 |
| | 7,10 | 211 | 158 | 226 | 362 | 472 | 566 | 641 | 725 | 783 | 923 | 998 | 1111 | 1249 | 1408 | 1639 | 1705 | 1868 | 2092 | 2541 |
| | 8,00 | 188 | 129 | 223 | 331 | 415 | 498 | 572 | 647 | 699 | 820 | 887 | 988 | 1033 | 1165 | 1356 | 1497 | 1641 | 1837 | 2092 |
| | 9,00 | 167 | 122 | 203 | 310 | 412 | 494 | 578 | 654 | 706 | 811 | 877 | 976 | 1075 | 1211 | 1410 | 1429 | 1566 | 1754 | 1995 |
| | 10,0 | 150 | 121 | 174 | 277 | 379 | 455 | 511 | 579 | 625 | 718 | 777 | 865 | 975 | 1100 | 1280 | 1311 | 1437 | 1609 | 1869 |
| | 11,2 | 134 | 105 | 173 | 272 | 330 | 396 | 437 | 494 | 534 | 663 | 717 | 798 | 812 | 915 | 1065 | 1121 | 1228 | 1376 | 1674 |
| | 12,5 | 120 | 99 | 160 | 242 | 299 | 359 | 408 | 462 | 498 | 607 | 656 | 731 | 784 | 884 | 1029 | 1067 | 1169 | 1309 | 1494 |
| | 14,0 | 107 | 99 | 139 | 226 | 282 | 338 | 371 | 420 | 453 | 531 | 574 | 639 | 712 | 803 | 935 | 946 | 1037 | 1161 | 1396 |
| | 16,0 | 94 | 84 | 125 | 203 | 249 | 299 | 344 | 389 | 420 | 486 | 526 | 585 | 621 | 700 | 815 | 808 | 885 | 992 | 1208 |
| | 18,0 | 83 | 79 | 113 | 176 | 214 | 257 | 298 | 337 | 364 | 428 | 463 | 515 | 555 | 626 | 729 | 768 | 841 | 942 | 1077 |
| | 20,0 | 75 | 73 | 98 | 167 | 202 | 242 | 271 | 306 | 331 | 374 | 405 | 450 | 504 | 568 | 661 | 684 | 749 | 839 | 1004 |
| | 22,4 | 67 | 49 | 91 | 126 | 146 | 175 | 223 | 253 | 273 | 310 | 335 | 373 | 451 | 508 | 592 | 583 | 639 | 716 | 855 |
| | 25,0 | 60 | 49 | 81 | 126 | 146 | 175 | 210 | 238 | 257 | 310 | 335 | 373 | 402 | 453 | 528 | 553 | 606 | 679 | 777 |
| 28,0 | 54 | 49 | 72 | 120 | 144 | 172 | 191 | 216 | 233 | 275 | 298 | 331 | 364 | 411 | 478 | | | | 724 | |
| 1200 | 5,00 | 240 | | | | | | | | | | | | | | | 1803 | 1976 | 2212 | |
| | 5,60 | 214 | 145 | 191 | 363 | 378 | 453 | 571 | 646 | 698 | 890 | 963 | 1072 | 1132 | 1276 | 1485 | 1713 | 1877 | 2102 | 2212 |
| | 6,30 | 190 | 137 | 191 | 347 | 378 | 453 | 571 | 646 | 698 | 889 | 962 | 1071 | 1134 | 1279 | 1489 | 1637 | 1795 | 2010 | 2212 |
| | 7,10 | 169 | 135 | 191 | 310 | 378 | 453 | 548 | 620 | 670 | 789 | 854 | 950 | 1068 | 1204 | 1402 | 1425 | 1561 | 1748 | 2142 |
| | 8,00 | 150 | 111 | 178 | 283 | 354 | 424 | 490 | 554 | 598 | 702 | 759 | 845 | 884 | 996 | 1160 | 1219 | 1336 | 1496 | 1790 |
| | 9,00 | 133 | 104 | 173 | 265 | 333 | 399 | 470 | 532 | 575 | 668 | 723 | 805 | 899 | 1014 | 1180 | 1161 | 1272 | 1425 | 1624 |
| | 10,0 | 120 | 104 | 149 | 237 | 314 | 376 | 428 | 484 | 523 | 585 | 633 | 704 | 817 | 921 | 1073 | 1063 | 1165 | 1305 | 1519 |
| | 11,2 | 107 | 90 | 138 | 223 | 272 | 326 | 371 | 420 | 454 | 556 | 601 | 669 | 694 | 783 | 911 | 908 | 995 | 1114 | 1357 |
| | 12,5 | 96 | 84 | 129 | 195 | 241 | 289 | 329 | 372 | 402 | 490 | 530 | 590 | 634 | 714 | 832 | 863 | 946 | 1059 | 1210 |
| | 14,0 | 86 | 82 | 112 | 185 | 227 | 272 | 299 | 338 | 365 | 428 | 463 | 516 | 575 | 648 | 755 | 764 | 838 | 938 | 1129 |
| | 16,0 | 75 | 72 | 101 | 164 | 202 | 243 | 275 | 311 | 336 | 391 | 423 | 471 | 502 | 565 | 658 | 652 | 715 | 800 | 976 |
| | 18,0 | 67 | 66 | 90 | 141 | 172 | 207 | 240 | 271 | 293 | 345 | 373 | 415 | 447 | 504 | 587 | 619 | 678 | 759 | 869 |
| | 20,0 | 60 | 59 | 79 | 134 | 162 | 194 | 218 | 246 | 266 | 301 | 326 | 362 | 406 | 457 | 532 | 551 | 603 | 676 | 809 |
| | 22,4 | 54 | 42 | 73 | 102 | 118 | 142 | 180 | 203 | 219 | 248 | 268 | 299 | 363 | 409 | 476 | 469 | 514 | 576 | 698 |
| | 25,0 | 48 | 42 | 65 | 101 | 118 | 142 | 169 | 191 | 206 | 248 | 268 | 299 | 323 | 364 | 424 | 445 | 488 | 546 | 626 |
| 28,0 | 43 | 42 | 58 | 96 | 115 | 138 | 153 | 173 | 187 | 221 | 239 | 266 | 293 | 330 | 384 | | | | 582 | |

Type VP2 Parallel Shaft

Torque Ratings – kNm/Double Reduction

(kNm AT LOW SPEED SHAFT)

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1800 | 5,00 | 360 | | | | | | | | | | | | | | | 70,5 | 77,2 | 86,5 | |
| | 5,60 | 321 | 5,87 | 8,28 | 14,6 | 16,7 | 20,0 | 22,7 | 25,7 | 27,7 | 34,9 | 37,7 | 42,0 | 44,6 | 50,3 | 58,6 | 75,5 | 82,7 | 92,7 | 94,2 |
| | 6,30 | 286 | 6,06 | 9,44 | 15,4 | 18,7 | 22,5 | 25,4 | 28,7 | 31,0 | 40,2 | 43,5 | 48,5 | 49,3 | 55,6 | 64,7 | 82,6 | 90,5 | 101,4 | 99,4 |
| | 7,10 | 254 | 6,66 | 9,53 | 14,9 | 20,3 | 24,3 | 27,3 | 30,8 | 33,3 | 38,6 | 41,8 | 46,5 | 51,3 | 57,9 | 67,4 | 78,0 | 85,5 | 95,8 | 109,0 |
| | 8,00 | 225 | 6,44 | 10,9 | 16,5 | 20,3 | 24,4 | 26,7 | 30,1 | 32,6 | 39,7 | 43,0 | 47,9 | 49,5 | 55,9 | 65,0 | 78,7 | 86,2 | 96,5 | 104,3 |
| | 9,00 | 200 | 6,66 | 11,2 | 17,4 | 22,8 | 27,4 | 30,1 | 34,1 | 36,8 | 45,5 | 49,2 | 54,8 | 56,8 | 64,0 | 74,5 | 86,0 | 94,2 | 105,5 | 112,3 |
| | 10,0 | 180 | 7,37 | 10,9 | 16,8 | 22,6 | 27,1 | 30,6 | 34,6 | 37,4 | 43,6 | 47,1 | 52,5 | 57,0 | 64,2 | 74,8 | 85,5 | 93,7 | 104,9 | 120,9 |
| | 11,2 | 161 | 7,14 | 12,1 | 18,9 | 22,5 | 27,0 | 29,5 | 33,4 | 36,0 | 44,5 | 48,1 | 53,5 | 56,3 | 63,4 | 73,8 | 80,9 | 88,7 | 99,3 | 115,4 |
| | 12,5 | 144 | 7,37 | 12,4 | 19,8 | 24,1 | 28,9 | 32,3 | 36,5 | 39,5 | 49,3 | 53,3 | 59,4 | 62,6 | 70,5 | 82,1 | 88,2 | 96,6 | 108,2 | 115,6 |
| | 14,0 | 129 | 8,25 | 12,0 | 19,0 | 24,5 | 29,4 | 33,8 | 38,2 | 41,3 | 46,6 | 50,5 | 56,2 | 62,9 | 70,9 | 82,6 | 87,5 | 95,9 | 107,4 | 124,0 |
| | 16,0 | 113 | 8,09 | 12,7 | 20,4 | 24,3 | 29,2 | 32,7 | 37,0 | 40,0 | 49,1 | 53,1 | 59,1 | 61,7 | 69,6 | 81,0 | 82,7 | 90,7 | 101,5 | 121,8 |
| | 18,0 | 100 | 8,35 | 13,0 | 20,0 | 24,4 | 29,3 | 32,7 | 37,0 | 40,0 | 50,1 | 54,2 | 60,4 | 63,7 | 71,9 | 83,7 | 89,9 | 98,6 | 110,4 | 118,1 |
| | 20,0 | 90 | 9,01 | 12,8 | 20,6 | 24,8 | 29,8 | 34,2 | 38,7 | 41,8 | 47,4 | 51,3 | 57,1 | 64,0 | 72,2 | 84,0 | 89,0 | 97,5 | 109,2 | 126,4 |
| | 22,4 | 80 | 6,68 | 12,6 | 17,9 | 20,8 | 25,0 | 31,1 | 35,2 | 38,0 | 43,3 | 46,8 | 52,1 | 64,8 | 73,1 | 85,1 | 84,0 | 92,1 | 103,1 | 121,0 |
| | 25,0 | 72 | 7,30 | 12,7 | 20,1 | 23,4 | 28,0 | 33,1 | 37,4 | 40,4 | 50,1 | 54,2 | 60,3 | 64,5 | 72,7 | 84,7 | 91,1 | 99,9 | 111,9 | 119,9 |
| | 28,0 | 64 | 8,13 | 12,9 | 20,7 | 25,0 | 30,0 | 34,5 | 39,0 | 42,2 | 47,8 | 51,8 | 57,6 | 64,7 | 73,0 | 84,9 | | | | 128,2 |
| | 1500 | 5,00 | 300 | | | | | | | | | | | | | | | 74,4 | 81,6 | 91,3 |
| 5,60 | | 268 | 6,19 | 8,28 | 15,4 | 17,4 | 20,8 | 24,0 | 27,1 | 29,3 | 36,8 | 39,8 | 44,3 | 47,2 | 53,2 | 61,9 | 78,4 | 85,9 | 96,2 | 99,5 |
| 6,30 | | 238 | 6,40 | 9,44 | 16,3 | 19,5 | 23,4 | 26,8 | 30,3 | 32,8 | 42,5 | 46,0 | 51,2 | 52,1 | 58,7 | 68,3 | 84,8 | 92,9 | 104,0 | 105,0 |
| 7,10 | | 211 | 7,03 | 10,1 | 15,7 | 21,1 | 25,3 | 28,8 | 32,6 | 35,2 | 40,8 | 44,1 | 49,1 | 54,2 | 61,1 | 71,2 | 82,4 | 90,3 | 101,1 | 115,1 |
| 8,00 | | 188 | 6,81 | 11,4 | 17,5 | 21,5 | 25,8 | 28,1 | 31,8 | 34,4 | 42,0 | 45,4 | 50,6 | 52,3 | 59,0 | 68,7 | 80,1 | 87,8 | 98,3 | 110,2 |
| 9,00 | | 167 | 7,03 | 11,8 | 18,4 | 23,9 | 28,7 | 31,8 | 36,0 | 38,9 | 48,0 | 52,0 | 57,8 | 59,9 | 67,6 | 78,7 | 87,3 | 95,7 | 107,2 | 114,3 |
| 10,0 | | 150 | 7,79 | 11,5 | 17,7 | 23,8 | 28,6 | 32,3 | 36,6 | 39,5 | 46,0 | 49,8 | 55,4 | 60,2 | 67,8 | 79,0 | 86,6 | 95,0 | 106,3 | 122,8 |
| 11,2 | | 134 | 7,54 | 12,3 | 19,9 | 23,8 | 28,5 | 31,2 | 35,2 | 38,1 | 47,0 | 50,8 | 56,6 | 59,4 | 67,0 | 78,0 | 82,0 | 89,8 | 100,6 | 120,5 |
| 12,5 | | 120 | 7,78 | 13,0 | 19,9 | 24,3 | 29,1 | 32,6 | 36,8 | 39,8 | 49,8 | 53,8 | 59,9 | 63,2 | 71,3 | 83,0 | 89,2 | 97,7 | 109,4 | 117,0 |
| 14,0 | | 107 | 8,71 | 12,7 | 20,1 | 24,7 | 29,6 | 34,0 | 38,5 | 41,6 | 47,1 | 50,9 | 56,7 | 63,5 | 71,6 | 83,4 | 88,4 | 96,9 | 108,5 | 125,4 |
| 16,0 | | 94 | 8,54 | 12,8 | 20,6 | 25,4 | 30,4 | 33,9 | 38,4 | 41,4 | 49,5 | 53,5 | 59,6 | 65,2 | 73,5 | 85,6 | 83,5 | 91,5 | 102,4 | 122,9 |
| 18,0 | | 83 | 8,82 | 13,1 | 20,1 | 24,5 | 29,4 | 32,9 | 37,3 | 40,2 | 50,5 | 54,6 | 60,8 | 64,2 | 72,4 | 84,3 | 90,6 | 99,3 | 111,2 | 119,2 |
| 20,0 | | 75 | 9,04 | 12,8 | 20,6 | 25,0 | 29,9 | 34,4 | 38,9 | 42,0 | 47,7 | 51,6 | 57,4 | 64,4 | 72,6 | 84,6 | 89,6 | 98,2 | 110,0 | 127,4 |
| 22,4 | | 67 | 7,05 | 13,1 | 18,1 | 21,0 | 25,2 | 31,5 | 35,6 | 38,5 | 43,3 | 46,8 | 52,1 | 66,0 | 74,4 | 86,7 | 84,5 | 92,6 | 103,7 | 122,1 |
| 25,0 | | 60 | 7,71 | 12,8 | 20,3 | 23,6 | 28,3 | 33,2 | 37,6 | 40,6 | 50,1 | 54,2 | 60,3 | 64,8 | 73,1 | 85,1 | 91,6 | 100,4 | 112,5 | 120,7 |
| 28,0 | | 54 | 8,59 | 12,9 | 20,8 | 25,1 | 30,1 | 34,6 | 39,2 | 42,3 | 48,1 | 52,0 | 57,9 | 65,0 | 73,3 | 85,3 | | | | 128,9 |
| 1200 | | 5,00 | 240 | | | | | | | | | | | | | | | 75,1 | 82,3 | 92,1 |
| | 5,60 | 214 | 6,62 | 8,28 | 16,2 | 17,4 | 20,8 | 24,9 | 28,2 | 30,5 | 39,3 | 42,5 | 47,3 | 50,4 | 56,8 | 66,2 | 78,9 | 86,5 | 96,9 | 100,4 |
| | 6,30 | 190 | 6,84 | 9,44 | 17,4 | 19,5 | 23,4 | 27,9 | 31,6 | 34,1 | 45,5 | 49,2 | 54,7 | 55,7 | 62,8 | 73,1 | 86,2 | 94,5 | 105,8 | 109,2 |
| | 7,10 | 169 | 7,52 | 10,6 | 16,8 | 21,1 | 25,3 | 30,8 | 34,8 | 37,6 | 43,6 | 47,2 | 52,5 | 58,0 | 65,4 | 76,1 | 86,1 | 94,3 | 105,7 | 121,3 |
| | 8,00 | 150 | 7,28 | 11,4 | 18,7 | 22,9 | 27,4 | 30,1 | 34,0 | 36,8 | 44,9 | 48,6 | 54,1 | 56,0 | 63,1 | 73,4 | 81,5 | 89,3 | 100,0 | 117,8 |
| | 9,00 | 133 | 7,52 | 12,7 | 19,6 | 24,2 | 29,0 | 32,4 | 36,6 | 39,5 | 49,5 | 53,6 | 59,6 | 62,7 | 70,7 | 82,3 | 88,7 | 97,2 | 108,9 | 116,3 |
| | 10,0 | 120 | 8,33 | 12,3 | 18,9 | 24,6 | 29,5 | 33,8 | 38,3 | 41,3 | 46,8 | 50,7 | 56,4 | 63,0 | 71,1 | 82,7 | 87,8 | 96,3 | 107,8 | 124,7 |
| | 11,2 | 107 | 8,06 | 12,3 | 20,4 | 24,5 | 29,4 | 33,1 | 37,4 | 40,4 | 49,2 | 53,2 | 59,3 | 63,5 | 71,6 | 83,4 | 83,0 | 91,0 | 101,9 | 122,2 |
| | 12,5 | 96 | 8,32 | 13,1 | 20,1 | 24,4 | 29,3 | 32,8 | 37,1 | 40,1 | 50,2 | 54,3 | 60,5 | 63,9 | 72,0 | 83,8 | 90,2 | 98,8 | 110,7 | 118,5 |
| | 14,0 | 86 | 9,02 | 12,8 | 20,6 | 24,9 | 29,8 | 34,3 | 38,8 | 41,9 | 47,5 | 51,3 | 57,2 | 64,1 | 72,3 | 84,1 | 89,2 | 97,8 | 109,5 | 126,8 |
| | 16,0 | 75 | 9,14 | 12,8 | 20,9 | 25,8 | 30,9 | 33,9 | 38,4 | 41,4 | 49,8 | 53,9 | 60,0 | 65,8 | 74,2 | 86,4 | 84,2 | 92,3 | 103,3 | 124,1 |
| | 18,0 | 67 | 9,20 | 13,1 | 20,2 | 24,6 | 29,5 | 33,1 | 37,5 | 40,5 | 50,8 | 54,9 | 61,1 | 64,7 | 72,9 | 84,9 | 91,3 | 100,1 | 112,1 | 120,2 |
| | 20,0 | 60 | 9,07 | 12,9 | 20,7 | 25,1 | 30,1 | 34,5 | 39,1 | 42,2 | 48,0 | 51,9 | 57,7 | 64,8 | 73,1 | 85,1 | 90,2 | 98,8 | 110,7 | 128,4 |
| | 22,4 | 54 | 7,54 | 13,2 | 18,3 | 21,3 | 25,5 | 31,7 | 35,8 | 38,7 | 43,3 | 46,8 | 52,1 | 66,4 | 74,8 | 87,1 | 85,0 | 93,2 | 104,4 | 124,5 |
| | 25,0 | 48 | 8,25 | 12,9 | 20,3 | 23,9 | 28,7 | 33,4 | 37,7 | 40,8 | 50,1 | 54,2 | 60,3 | 65,2 | 73,5 | 85,5 | 92,2 | 101,0 | 113,1 | 121,4 |
| | 28,0 | 43 | 9,11 | 12,9 | 20,8 | 25,2 | 30,2 | 34,7 | 39,3 | 42,5 | 48,3 | 52,2 | 58,1 | 65,3 | 73,6 | 85,7 | | | | 129,6 |

Type VP2 Parallel Shaft

Power Ratings – kW/Double Reduction

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|------|------|------|------|------|------|------|------|------|------|--|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 | |
| 1800 | 5,00 | 360 | 4253 | 4714 | 5178 | | | 6967 | 7783 | 8780 | | | | |
| | 5,60 | 321 | 3878 | 4298 | 4722 | 4722 | 5176 | 6356 | 7101 | 8010 | 7781 | 8304 | 8778 | |
| | 6,30 | 286 | 3805 | 4218 | 4633 | 4315 | 4730 | 5964 | 6663 | 7516 | 7099 | 7577 | 8009 | |
| | 7,10 | 254 | 3261 | 3614 | 3970 | 4235 | 4642 | 5460 | 6100 | 6881 | 6663 | 7111 | 7517 | |
| | 8,00 | 225 | 2676 | 2966 | 3258 | 3663 | 4015 | 4714 | 5267 | 5941 | 6190 | 6606 | 6983 | |
| | 9,00 | 200 | 2658 | 2946 | 3236 | 3340 | 3661 | 4586 | 5123 | 5779 | 5484 | 5852 | 6186 | |
| | 10,0 | 180 | 2437 | 2701 | 2967 | 3271 | 3585 | 3892 | 4348 | 4904 | 5288 | 5643 | 5965 | |
| | 11,2 | 161 | 2018 | 2236 | 2457 | 2959 | 3243 | 3375 | 3770 | 4253 | 4637 | 4949 | 5231 | |
| | 12,5 | 144 | 2016 | 2235 | 2455 | 2528 | 2771 | 3307 | 3695 | 4168 | 4131 | 4409 | 4660 | |
| | 14,0 | 129 | 1757 | 1948 | 2140 | 2480 | 2718 | 2714 | 3033 | 3421 | 4083 | 4358 | 4607 | |
| | 16,0 | 113 | 1451 | 1608 | 1767 | 2134 | 2339 | 2363 | 2640 | 2978 | 3252 | 3470 | 3668 | |
| | 18,0 | 100 | 1447 | 1604 | 1762 | 1818 | 1993 | 2310 | 2580 | 2911 | 2892 | 3087 | 3263 | |
| | 20,0 | 90 | 1221 | 1354 | 1487 | 1780 | 1952 | 1922 | 2148 | 2422 | 2852 | 3044 | 3217 | |
| | 22,4 | 80 | 1046 | 1159 | 1274 | 1357 | 1487 | 1777 | 1985 | 2240 | 2258 | 2410 | 2548 | |
| | 25,0 | 72 | 1042 | 1155 | 1269 | 1311 | 1437 | 1735 | 1938 | 2186 | 2114 | 2256 | 2385 | |
| 28,0 | 64 | | | | 1282 | 1405 | | | | 2114 | 2256 | 2385 | | |
| 1500 | 5,00 | 300 | 3743 | 4149 | 4558 | | | 6132 | 6851 | 7728 | | | | |
| | 5,60 | 268 | 3261 | 3614 | 3970 | 4156 | 4556 | 5551 | 6202 | 6996 | 6849 | 7309 | 7727 | |
| | 6,30 | 238 | 3239 | 3590 | 3944 | 3798 | 4163 | 5249 | 5864 | 6615 | 6249 | 6669 | 7049 | |
| | 7,10 | 211 | 2717 | 3012 | 3308 | 3728 | 4086 | 4550 | 5083 | 5734 | 5865 | 6259 | 6616 | |
| | 8,00 | 188 | 2252 | 2496 | 2742 | 3224 | 3534 | 3929 | 4389 | 4951 | 5228 | 5580 | 5899 | |
| | 9,00 | 167 | 2253 | 2497 | 2743 | 2822 | 3093 | 3821 | 4269 | 4816 | 4809 | 5132 | 5425 | |
| | 10,0 | 150 | 2064 | 2287 | 2513 | 2771 | 3037 | 3281 | 3666 | 4135 | 4654 | 4967 | 5251 | |
| | 11,2 | 134 | 1706 | 1891 | 2077 | 2505 | 2746 | 2862 | 3198 | 3607 | 3864 | 4124 | 4359 | |
| | 12,5 | 120 | 1703 | 1888 | 2074 | 2138 | 2343 | 2801 | 3129 | 3530 | 3503 | 3739 | 3952 | |
| | 14,0 | 107 | 1481 | 1641 | 1803 | 2095 | 2296 | 2292 | 2560 | 2888 | 3459 | 3691 | 3902 | |
| | 16,0 | 94 | 1221 | 1354 | 1487 | 1798 | 1970 | 1992 | 2225 | 2510 | 2710 | 2892 | 3057 | |
| | 18,0 | 83 | 1217 | 1349 | 1482 | 1519 | 1665 | 1945 | 2173 | 2452 | 2438 | 2602 | 2751 | |
| | 20,0 | 75 | 1018 | 1128 | 1239 | 1497 | 1641 | 1617 | 1806 | 2037 | 2402 | 2564 | 2710 | |
| | 22,4 | 67 | 878 | 973 | 1069 | 1131 | 1239 | 1493 | 1668 | 1882 | 1979 | 2112 | 2232 | |
| | 25,0 | 60 | 874 | 969 | 1064 | 1100 | 1206 | 1457 | 1628 | 1836 | 1762 | 1880 | 1987 | |
| 28,0 | 54 | | | | 1075 | 1179 | | | | 1762 | 1880 | 1987 | | |
| 1200 | 5,00 | 240 | 3179 | 3523 | 3871 | | | 5017 | 5605 | 6323 | | | | |
| | 5,60 | 214 | 2609 | 2891 | 3176 | 3555 | 3897 | 4441 | 4961 | 5597 | 5604 | 5980 | 6322 | |
| | 6,30 | 190 | 2594 | 2875 | 3159 | 3249 | 3561 | 4320 | 4826 | 5444 | 5345 | 5704 | 6030 | |
| | 7,10 | 169 | 2222 | 2463 | 2705 | 3189 | 3495 | 3640 | 4067 | 4587 | 5017 | 5354 | 5660 | |
| | 8,00 | 150 | 1838 | 2037 | 2238 | 2698 | 2957 | 3178 | 3551 | 4006 | 4183 | 4464 | 4719 | |
| | 9,00 | 133 | 1836 | 2034 | 2235 | 2303 | 2524 | 3113 | 3478 | 3923 | 3891 | 4152 | 4389 | |
| | 10,0 | 120 | 1677 | 1859 | 2042 | 2258 | 2475 | 2676 | 2990 | 3373 | 3797 | 4052 | 4283 | |
| | 11,2 | 107 | 1384 | 1534 | 1686 | 2036 | 2232 | 2330 | 2603 | 2936 | 3091 | 3299 | 3487 | |
| | 12,5 | 96 | 1381 | 1530 | 1681 | 1735 | 1902 | 2277 | 2544 | 2869 | 2851 | 3043 | 3217 | |
| | 14,0 | 86 | 1197 | 1327 | 1458 | 1698 | 1862 | 1857 | 2074 | 2340 | 2799 | 2987 | 3158 | |
| | 16,0 | 75 | 987 | 1093 | 1201 | 1454 | 1594 | 1612 | 1801 | 2031 | 2168 | 2314 | 2446 | |
| | 18,0 | 67 | 983 | 1089 | 1196 | 1215 | 1332 | 1573 | 1757 | 1982 | 1973 | 2106 | 2226 | |
| | 20,0 | 60 | 829 | 918 | 1009 | 1209 | 1325 | 1305 | 1458 | 1645 | 1942 | 2073 | 2191 | |
| | 22,4 | 54 | 707 | 784 | 861 | 920 | 1009 | 1205 | 1346 | 1518 | 1597 | 1705 | 1802 | |
| | 25,0 | 48 | 704 | 780 | 857 | 886 | 971 | 1174 | 1312 | 1480 | 1411 | 1506 | 1592 | |
| 28,0 | 43 | | | | 866 | 949 | | | | 1411 | 1506 | 1592 | | |

Type VP2 Parallel Shaft

Torque Ratings – kNm/Double Reduction

(kNm AT LOW SPEED SHAFT)

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|--|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 | | | |
| 1800 | 5,00 | 360 | 115 | 127 | 140 | | | 181 | 202 | 228 | | | | | | |
| | 5,60 | 321 | 118 | 131 | 144 | 142 | 155 | 190 | 212 | 239 | 226 | 241 | 255 | | | |
| | 6,30 | 286 | 127 | 140 | 154 | 145 | 158 | 195 | 218 | 245 | 237 | 253 | 267 | | | |
| | 7,10 | 254 | 129 | 143 | 157 | 155 | 170 | 200 | 224 | 252 | 242 | 258 | 273 | | | |
| | 8,00 | 225 | 119 | 132 | 145 | 161 | 176 | 199 | 222 | 251 | 254 | 271 | 287 | | | |
| | 9,00 | 200 | 129 | 143 | 157 | 164 | 179 | 212 | 236 | 267 | 258 | 276 | 291 | | | |
| | 10,0 | 180 | 130 | 144 | 159 | 175 | 191 | 200 | 224 | 252 | 272 | 290 | 306 | | | |
| | 11,2 | 161 | 122 | 135 | 148 | 176 | 193 | 200 | 223 | 252 | 267 | 285 | 301 | | | |
| | 12,5 | 144 | 133 | 147 | 162 | 168 | 184 | 214 | 239 | 270 | 273 | 291 | 308 | | | |
| | 14,0 | 129 | 134 | 149 | 163 | 179 | 197 | 206 | 230 | 260 | 294 | 314 | 332 | | | |
| | 16,0 | 113 | 125 | 138 | 152 | 181 | 198 | 207 | 231 | 261 | 277 | 295 | 312 | | | |
| | 18,0 | 100 | 136 | 151 | 166 | 172 | 189 | 221 | 247 | 278 | 282 | 301 | 319 | | | |
| | 20,0 | 90 | 131 | 146 | 160 | 184 | 201 | 210 | 234 | 264 | 304 | 324 | 342 | | | |
| | 22,4 | 80 | 127 | 141 | 155 | 163 | 178 | 210 | 235 | 265 | 275 | 293 | 310 | | | |
| | 25,0 | 72 | 138 | 153 | 168 | 175 | 192 | 225 | 251 | 283 | 279 | 298 | 315 | | | |
| | 28,0 | 64 | | | | 187 | 205 | | | | 305 | 325 | 344 | | | |
| 1500 | 5,00 | 300 | 121 | 134 | 148 | | | 191 | 213 | 241 | | | | | | |
| | 5,60 | 268 | 119 | 132 | 145 | 150 | 164 | 199 | 222 | 251 | 239 | 255 | 269 | | | |
| | 6,30 | 238 | 129 | 143 | 158 | 153 | 167 | 206 | 230 | 259 | 250 | 267 | 282 | | | |
| | 7,10 | 211 | 129 | 143 | 157 | 163 | 179 | 200 | 224 | 252 | 256 | 273 | 289 | | | |
| | 8,00 | 188 | 120 | 133 | 147 | 170 | 186 | 199 | 222 | 251 | 258 | 275 | 291 | | | |
| | 9,00 | 167 | 132 | 146 | 160 | 166 | 182 | 212 | 236 | 267 | 272 | 290 | 307 | | | |
| | 10,0 | 150 | 132 | 147 | 161 | 178 | 195 | 203 | 226 | 255 | 287 | 306 | 324 | | | |
| | 11,2 | 134 | 124 | 137 | 150 | 179 | 196 | 203 | 227 | 256 | 267 | 285 | 301 | | | |
| | 12,5 | 120 | 135 | 149 | 164 | 170 | 187 | 218 | 243 | 274 | 278 | 297 | 313 | | | |
| | 14,0 | 107 | 136 | 150 | 165 | 182 | 199 | 209 | 234 | 263 | 299 | 319 | 337 | | | |
| | 16,0 | 94 | 126 | 140 | 154 | 183 | 201 | 209 | 234 | 264 | 277 | 295 | 312 | | | |
| | 18,0 | 83 | 137 | 152 | 167 | 173 | 189 | 223 | 249 | 281 | 286 | 305 | 322 | | | |
| | 20,0 | 75 | 131 | 146 | 160 | 186 | 203 | 211 | 236 | 267 | 307 | 327 | 346 | | | |
| | 22,4 | 67 | 128 | 142 | 156 | 163 | 178 | 212 | 237 | 267 | 289 | 308 | 326 | | | |
| | 25,0 | 60 | 139 | 154 | 170 | 176 | 193 | 226 | 253 | 285 | 279 | 298 | 315 | | | |
| | 28,0 | 54 | | | | 188 | 206 | | | | 305 | 325 | 344 | | | |
| 1200 | 5,00 | 240 | 129 | 143 | 157 | | | 195 | 218 | 246 | | | | | | |
| | 5,60 | 214 | 119 | 132 | 145 | 160 | 175 | 199 | 222 | 251 | 244 | 261 | 275 | | | |
| | 6,30 | 190 | 130 | 144 | 158 | 163 | 179 | 212 | 236 | 267 | 267 | 285 | 302 | | | |
| | 7,10 | 169 | 131 | 146 | 160 | 175 | 191 | 200 | 224 | 252 | 273 | 292 | 308 | | | |
| | 8,00 | 150 | 123 | 136 | 149 | 178 | 195 | 201 | 225 | 254 | 258 | 275 | 291 | | | |
| | 9,00 | 133 | 134 | 149 | 163 | 169 | 185 | 215 | 241 | 272 | 275 | 293 | 310 | | | |
| | 10,0 | 120 | 134 | 149 | 164 | 181 | 198 | 207 | 231 | 260 | 292 | 312 | 330 | | | |
| | 11,2 | 107 | 125 | 139 | 153 | 182 | 199 | 207 | 231 | 261 | 267 | 285 | 301 | | | |
| | 12,5 | 96 | 137 | 151 | 166 | 173 | 189 | 221 | 247 | 279 | 283 | 302 | 319 | | | |
| | 14,0 | 86 | 137 | 152 | 167 | 184 | 202 | 212 | 237 | 267 | 302 | 323 | 341 | | | |
| | 16,0 | 75 | 127 | 141 | 155 | 185 | 203 | 212 | 236 | 267 | 277 | 295 | 312 | | | |
| | 18,0 | 67 | 139 | 154 | 169 | 173 | 189 | 226 | 252 | 284 | 289 | 308 | 326 | | | |
| | 20,0 | 60 | 134 | 148 | 163 | 187 | 205 | 213 | 238 | 269 | 310 | 331 | 350 | | | |
| | 22,4 | 54 | 129 | 143 | 157 | 165 | 181 | 214 | 239 | 270 | 291 | 311 | 329 | | | |
| | 25,0 | 48 | 140 | 155 | 171 | 178 | 195 | 228 | 255 | 287 | 280 | 299 | 316 | | | |
| | 28,0 | 43 | | | | 189 | 207 | | | | 305 | 325 | 344 | | | |

Type VP2 Parallel Shaft

Power Ratings – kW/Double Reduction

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1000 | 5,00 | 200 | | | | | | | | | | | | | | | 1502 | 1646 | 1844 | |
| | 5,60 | 179 | 128 | 159 | 302 | 315 | 378 | 476 | 538 | 581 | 742 | 802 | 893 | 991 | 1117 | 1300 | 1452 | 1591 | 1782 | 1844 |
| | 6,30 | 159 | 121 | 159 | 302 | 315 | 378 | 476 | 538 | 581 | 742 | 802 | 893 | 991 | 1117 | 1300 | 1385 | 1518 | 1700 | 1844 |
| | 7,10 | 141 | 119 | 159 | 273 | 315 | 378 | 476 | 538 | 581 | 695 | 752 | 837 | 940 | 1060 | 1234 | 1202 | 1317 | 1475 | 1812 |
| | 8,00 | 125 | 97 | 149 | 248 | 295 | 354 | 429 | 486 | 524 | 618 | 668 | 744 | 778 | 877 | 1021 | 1027 | 1126 | 1261 | 1535 |
| | 9,00 | 111 | 92 | 149 | 225 | 279 | 335 | 395 | 447 | 483 | 562 | 608 | 677 | 757 | 853 | 993 | 977 | 1071 | 1200 | 1369 |
| | 10,0 | 100 | 91 | 130 | 208 | 263 | 315 | 359 | 406 | 439 | 491 | 531 | 592 | 687 | 775 | 902 | 894 | 980 | 1097 | 1278 |
| | 11,2 | 89 | 79 | 115 | 185 | 227 | 272 | 309 | 350 | 378 | 466 | 504 | 561 | 596 | 672 | 782 | 763 | 836 | 936 | 1141 |
| | 12,5 | 80 | 74 | 108 | 163 | 202 | 242 | 276 | 312 | 337 | 411 | 444 | 495 | 532 | 599 | 698 | 725 | 794 | 889 | 1017 |
| | 14,0 | 71 | 69 | 94 | 155 | 190 | 228 | 250 | 283 | 306 | 359 | 388 | 432 | 482 | 544 | 633 | 641 | 702 | 787 | 948 |
| | 16,0 | 63 | 62 | 84 | 137 | 170 | 204 | 229 | 259 | 280 | 328 | 355 | 395 | 420 | 474 | 551 | 546 | 599 | 671 | 818 |
| | 18,0 | 56 | 55 | 76 | 118 | 144 | 173 | 201 | 227 | 245 | 288 | 312 | 347 | 375 | 422 | 492 | 518 | 568 | 636 | 728 |
| | 20,0 | 50 | 49 | 66 | 112 | 136 | 163 | 182 | 206 | 222 | 252 | 272 | 303 | 339 | 383 | 446 | 461 | 505 | 566 | 678 |
| | 22,4 | 45 | 37 | 61 | 86 | 99 | 119 | 150 | 169 | 183 | 207 | 224 | 249 | 303 | 342 | 398 | 393 | 430 | 482 | 588 |
| 25,0 | 40 | 37 | 54 | 85 | 99 | 119 | 141 | 160 | 172 | 207 | 224 | 249 | 270 | 305 | 355 | 372 | 408 | 457 | 523 | |
| 28,0 | 36 | 35 | 48 | 80 | 96 | 116 | 128 | 145 | 156 | 185 | 200 | 222 | 245 | 276 | 321 | | | | 487 | |
| 900 | 5,00 | 180 | | | | | | | | | | | | | | | 1352 | 1482 | 1659 | |
| | 5,60 | 161 | 119 | 143 | 272 | 283 | 340 | 428 | 484 | 523 | 667 | 722 | 804 | 891 | 1005 | 1170 | 1318 | 1445 | 1618 | 1659 |
| | 6,30 | 143 | 112 | 143 | 272 | 283 | 340 | 428 | 484 | 523 | 667 | 722 | 804 | 891 | 1005 | 1170 | 1256 | 1377 | 1542 | 1659 |
| | 7,10 | 127 | 111 | 143 | 253 | 283 | 340 | 428 | 484 | 523 | 633 | 685 | 762 | 868 | 978 | 1139 | 1089 | 1193 | 1336 | 1643 |
| | 8,00 | 113 | 90 | 134 | 224 | 265 | 318 | 386 | 437 | 472 | 574 | 621 | 691 | 723 | 815 | 949 | 930 | 1019 | 1141 | 1390 |
| | 9,00 | 100 | 85 | 134 | 203 | 252 | 302 | 357 | 404 | 436 | 508 | 549 | 611 | 685 | 772 | 898 | 884 | 969 | 1085 | 1239 |
| | 10,0 | 90 | 84 | 117 | 193 | 237 | 285 | 324 | 367 | 396 | 444 | 480 | 534 | 622 | 701 | 816 | 808 | 886 | 992 | 1156 |
| | 11,2 | 80 | 73 | 104 | 167 | 204 | 245 | 278 | 315 | 340 | 421 | 456 | 507 | 538 | 607 | 706 | 689 | 756 | 846 | 1031 |
| | 12,5 | 72 | 69 | 97 | 147 | 182 | 219 | 249 | 281 | 304 | 371 | 401 | 446 | 480 | 541 | 630 | 655 | 717 | 803 | 919 |
| | 14,0 | 64 | 62 | 85 | 140 | 172 | 206 | 226 | 255 | 276 | 324 | 350 | 390 | 435 | 491 | 571 | 579 | 634 | 710 | 856 |
| | 16,0 | 56 | 56 | 76 | 123 | 154 | 184 | 206 | 233 | 252 | 296 | 320 | 356 | 379 | 427 | 497 | 493 | 541 | 605 | 739 |
| | 18,0 | 50 | 50 | 68 | 107 | 130 | 156 | 181 | 205 | 221 | 260 | 281 | 313 | 338 | 381 | 443 | 468 | 513 | 574 | 657 |
| | 20,0 | 45 | 44 | 59 | 101 | 122 | 147 | 164 | 186 | 201 | 227 | 246 | 273 | 306 | 345 | 402 | 416 | 456 | 510 | 612 |
| | 22,4 | 40 | 34 | 55 | 77 | 90 | 108 | 135 | 152 | 165 | 186 | 201 | 224 | 273 | 308 | 359 | 354 | 388 | 435 | 531 |
| 25,0 | 36 | 34 | 49 | 76 | 90 | 108 | 127 | 144 | 155 | 186 | 201 | 224 | 244 | 275 | 320 | 336 | 368 | 412 | 472 | |
| 28,0 | 32 | 31 | 44 | 72 | 87 | 104 | 115 | 130 | 141 | 166 | 180 | 200 | 221 | 249 | 290 | | | | 439 | |

Type VP2 Parallel Shaft

Torque Ratings – kNm/Double Reduction

(kNm AT LOW SPEED SHAFT)

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|--|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 | |
| 1000 | 5,00 | 200 | | | | | | | | | | | | | | | | 75,1 | 82,3 | 92,1 | |
| | 5,60 | 179 | 7,00 | 8,28 | 16,2 | 17,4 | 20,8 | 24,9 | 28,2 | 30,5 | 39,3 | 42,5 | 47,3 | 53,0 | 59,7 | 69,5 | 80,3 | 88,0 | 98,5 | 100,4 | |
| | 6,30 | 159 | 7,23 | 9,44 | 18,2 | 19,5 | 23,4 | 27,9 | 31,6 | 34,1 | 45,5 | 49,2 | 54,8 | 58,3 | 65,8 | 76,6 | 87,6 | 96,0 | 107,5 | 109,2 | |
| | 7,10 | 141 | 7,94 | 10,6 | 17,7 | 21,1 | 25,3 | 32,1 | 36,3 | 39,2 | 46,1 | 49,8 | 55,5 | 61,2 | 69,0 | 80,4 | 87,2 | 95,5 | 107,0 | 123,1 | |
| | 8,00 | 125 | 7,69 | 11,4 | 19,6 | 22,9 | 27,4 | 31,7 | 35,8 | 38,7 | 47,4 | 51,3 | 57,1 | 59,1 | 66,6 | 77,6 | 82,4 | 90,3 | 101,2 | 121,3 | |
| | 9,00 | 111 | 7,94 | 13,0 | 20,0 | 24,3 | 29,2 | 32,6 | 36,9 | 39,8 | 49,9 | 54,0 | 60,1 | 63,3 | 71,4 | 83,1 | 89,6 | 98,2 | 110,0 | 117,7 | |
| | 10,0 | 100 | 8,80 | 12,8 | 20,0 | 24,8 | 29,7 | 34,1 | 38,5 | 41,6 | 47,2 | 51,1 | 56,9 | 63,6 | 71,7 | 83,5 | 88,6 | 97,1 | 108,8 | 126,0 | |
| | 11,2 | 89 | 8,52 | 12,3 | 20,4 | 24,5 | 29,4 | 33,1 | 37,4 | 40,4 | 49,5 | 53,6 | 59,7 | 65,4 | 73,7 | 85,9 | 83,7 | 91,7 | 102,7 | 123,3 | |
| | 12,5 | 80 | 8,79 | 13,1 | 20,2 | 24,6 | 29,4 | 33,0 | 37,3 | 40,3 | 50,5 | 54,7 | 60,8 | 64,3 | 72,5 | 84,4 | 90,8 | 99,6 | 111,5 | 119,5 | |
| | 14,0 | 71 | 9,05 | 12,9 | 20,7 | 25,0 | 30,0 | 34,4 | 38,9 | 42,1 | 47,7 | 51,6 | 57,5 | 64,5 | 72,7 | 84,7 | 89,8 | 98,4 | 110,2 | 127,7 | |
| | 16,0 | 63 | 9,52 | 12,9 | 20,9 | 26,0 | 31,2 | 33,9 | 38,4 | 41,4 | 50,1 | 54,2 | 60,3 | 66,1 | 74,6 | 86,8 | 84,7 | 92,8 | 103,9 | 124,9 | |
| | 18,0 | 56 | 9,23 | 13,2 | 20,3 | 24,7 | 29,6 | 33,3 | 37,6 | 40,6 | 51,0 | 55,2 | 61,4 | 65,0 | 73,2 | 85,3 | 91,8 | 100,6 | 112,7 | 120,9 | |
| | 20,0 | 50 | 9,09 | 12,9 | 20,8 | 25,1 | 30,2 | 34,7 | 39,2 | 42,3 | 48,1 | 52,1 | 58,0 | 65,1 | 73,4 | 85,5 | 90,6 | 99,3 | 111,2 | 129,1 | |
| | 22,4 | 45 | 7,96 | 13,2 | 18,4 | 21,4 | 25,7 | 31,7 | 35,8 | 38,7 | 43,3 | 46,8 | 52,1 | 66,6 | 75,1 | 87,4 | 85,4 | 93,6 | 104,8 | 126,0 | |
| | 25,0 | 40 | 8,71 | 12,9 | 20,4 | 24,1 | 28,9 | 33,4 | 37,8 | 40,9 | 50,1 | 54,2 | 60,3 | 65,4 | 73,7 | 85,8 | 92,5 | 101,4 | 113,5 | 121,9 | |
| | 28,0 | 36 | 9,12 | 13,0 | 20,9 | 25,3 | 30,3 | 34,8 | 39,4 | 42,6 | 48,4 | 52,4 | 58,3 | 65,5 | 73,9 | 86,0 | | | | 130,0 | |
| 900 | 5,00 | 180 | | | | | | | | | | | | | | | | 75,1 | 82,3 | 92,1 | |
| | 5,60 | 161 | 7,22 | 8,28 | 16,2 | 17,4 | 20,8 | 24,9 | 28,2 | 30,5 | 39,3 | 42,5 | 47,3 | 53,0 | 59,7 | 69,5 | 81,0 | 88,7 | 99,4 | 100,4 | |
| | 6,30 | 143 | 7,46 | 9,44 | 18,2 | 19,5 | 23,4 | 27,9 | 31,6 | 34,1 | 45,5 | 49,2 | 54,8 | 58,3 | 65,8 | 76,6 | 88,2 | 96,7 | 108,3 | 109,2 | |
| | 7,10 | 127 | 8,20 | 10,6 | 18,3 | 21,1 | 25,3 | 32,1 | 36,3 | 39,2 | 46,6 | 50,5 | 56,2 | 62,8 | 70,8 | 82,4 | 87,7 | 96,1 | 107,6 | 124,0 | |
| | 8,00 | 113 | 7,93 | 11,4 | 19,6 | 22,9 | 27,4 | 31,7 | 35,8 | 38,7 | 48,9 | 52,9 | 58,9 | 61,0 | 68,8 | 80,1 | 82,9 | 90,8 | 101,7 | 122,0 | |
| | 9,00 | 100 | 8,20 | 13,0 | 20,0 | 24,4 | 29,3 | 32,7 | 37,0 | 40,0 | 50,2 | 54,3 | 60,4 | 63,6 | 71,7 | 83,5 | 90,1 | 98,7 | 110,5 | 118,4 | |
| | 10,0 | 90 | 9,02 | 12,8 | 20,6 | 24,8 | 29,8 | 34,2 | 38,7 | 41,8 | 47,4 | 51,3 | 57,1 | 63,9 | 72,0 | 83,9 | 89,0 | 97,6 | 109,3 | 126,6 | |
| | 11,2 | 80 | 8,79 | 12,3 | 20,4 | 24,5 | 29,4 | 33,1 | 37,4 | 40,4 | 49,7 | 53,8 | 59,9 | 65,7 | 74,0 | 86,2 | 84,0 | 92,1 | 103,1 | 123,8 | |
| | 12,5 | 72 | 9,07 | 13,1 | 20,2 | 24,6 | 29,5 | 33,1 | 37,4 | 40,4 | 50,7 | 54,8 | 61,0 | 64,5 | 72,7 | 84,7 | 91,2 | 99,9 | 111,9 | 120,0 | |
| | 14,0 | 64 | 9,07 | 12,9 | 20,7 | 25,0 | 30,0 | 34,5 | 39,0 | 42,2 | 47,9 | 51,8 | 57,6 | 64,7 | 73,0 | 84,9 | 90,1 | 98,7 | 110,5 | 128,2 | |
| | 16,0 | 56 | 9,54 | 12,9 | 20,9 | 26,1 | 31,3 | 33,9 | 38,4 | 41,4 | 50,2 | 54,3 | 60,4 | 66,3 | 74,8 | 87,0 | 84,9 | 93,1 | 104,2 | 125,3 | |
| | 18,0 | 50 | 9,24 | 13,2 | 20,3 | 24,8 | 29,7 | 33,3 | 37,7 | 40,7 | 51,1 | 55,3 | 61,5 | 65,1 | 73,4 | 85,5 | 92,0 | 100,9 | 113,0 | 121,3 | |
| | 20,0 | 45 | 9,10 | 12,9 | 20,8 | 25,2 | 30,2 | 34,7 | 39,3 | 42,4 | 48,2 | 52,2 | 58,1 | 65,3 | 73,6 | 85,7 | 90,8 | 99,5 | 111,4 | 129,4 | |
| | 22,4 | 40 | 8,08 | 13,2 | 18,4 | 21,5 | 25,8 | 31,7 | 35,8 | 38,7 | 43,3 | 46,8 | 52,1 | 66,7 | 75,2 | 87,6 | 85,6 | 93,8 | 105,0 | 126,3 | |
| | 25,0 | 36 | 8,83 | 13,0 | 20,4 | 24,2 | 29,0 | 33,5 | 37,9 | 40,9 | 50,1 | 54,2 | 60,3 | 65,5 | 73,8 | 86,0 | 92,7 | 101,5 | 113,7 | 122,2 | |
| | 28,0 | 32 | 9,13 | 13,0 | 20,9 | 25,3 | 30,3 | 34,9 | 39,4 | 42,6 | 48,5 | 52,4 | 58,4 | 65,6 | 74,0 | 86,1 | | | | 130,3 | |

Type VP2 Parallel Shaft

Power Ratings – kW/Double Reduction

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|------|------|------|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1000 | 5,00 | 200 | 2656 | 2944 | 3234 | | | 4181 | 4671 | 5269 | | | |
| | 5,60 | 179 | 2201 | 2440 | 2680 | 3088 | 3384 | 3701 | 4135 | 4664 | 4670 | 4984 | 5268 |
| | 6,30 | 159 | 2201 | 2440 | 2680 | 2758 | 3023 | 3606 | 4029 | 4545 | 4530 | 4834 | 5110 |
| | 7,10 | 141 | 1878 | 2082 | 2287 | 2707 | 2968 | 3089 | 3451 | 3892 | 4255 | 4541 | 4800 |
| | 8,00 | 125 | 1552 | 1720 | 1889 | 2273 | 2491 | 2692 | 3008 | 3393 | 3486 | 3720 | 3932 |
| | 9,00 | 111 | 1548 | 1716 | 1885 | 1944 | 2131 | 2634 | 2942 | 3319 | 3295 | 3517 | 3718 |
| | 10,0 | 100 | 1412 | 1565 | 1720 | 1904 | 2087 | 2259 | 2524 | 2847 | 3164 | 3377 | 3570 |
| | 11,2 | 89 | 1165 | 1291 | 1418 | 1715 | 1879 | 1963 | 2194 | 2474 | 2576 | 2749 | 2906 |
| | 12,5 | 80 | 1161 | 1286 | 1413 | 1459 | 1600 | 1917 | 2142 | 2416 | 2403 | 2565 | 2711 |
| | 14,0 | 71 | 1005 | 1114 | 1224 | 1428 | 1565 | 1561 | 1743 | 1967 | 2333 | 2489 | 2631 |
| | 16,0 | 63 | 828 | 917 | 1008 | 1220 | 1338 | 1353 | 1512 | 1706 | 1807 | 1928 | 2038 |
| | 18,0 | 56 | 824 | 913 | 1003 | 1013 | 1110 | 1320 | 1474 | 1663 | 1656 | 1768 | 1869 |
| | 20,0 | 50 | 701 | 777 | 854 | 1014 | 1111 | 1094 | 1222 | 1379 | 1630 | 1739 | 1839 |
| | 22,4 | 45 | 592 | 656 | 721 | 779 | 854 | 1009 | 1128 | 1272 | 1339 | 1429 | 1511 |
| 25,0 | 40 | 589 | 653 | 717 | 742 | 813 | 984 | 1099 | 1240 | 1197 | 1278 | 1351 | |
| 28,0 | 36 | | | | 725 | 794 | | | | 1197 | 1278 | 1351 | |
| 900 | 5,00 | 180 | 2416 | 2678 | 2942 | | | 3763 | 4204 | 4742 | | | |
| | 5,60 | 161 | 2000 | 2217 | 2436 | 2779 | 3046 | 3349 | 3741 | 4220 | 4203 | 4485 | 4741 |
| | 6,30 | 143 | 1999 | 2216 | 2434 | 2506 | 2747 | 3281 | 3666 | 4135 | 4091 | 4366 | 4615 |
| | 7,10 | 127 | 1703 | 1887 | 2073 | 2459 | 2695 | 2805 | 3134 | 3535 | 3829 | 4087 | 4320 |
| | 8,00 | 113 | 1405 | 1558 | 1711 | 2046 | 2242 | 2443 | 2729 | 3078 | 3137 | 3348 | 3539 |
| | 9,00 | 100 | 1402 | 1554 | 1707 | 1761 | 1931 | 2388 | 2668 | 3009 | 2990 | 3191 | 3373 |
| | 10,0 | 90 | 1278 | 1416 | 1556 | 1724 | 1890 | 2046 | 2286 | 2578 | 2848 | 3039 | 3213 |
| | 11,2 | 80 | 1053 | 1167 | 1282 | 1551 | 1700 | 1777 | 1985 | 2240 | 2318 | 2474 | 2616 |
| | 12,5 | 72 | 1049 | 1163 | 1277 | 1320 | 1447 | 1735 | 1938 | 2186 | 2175 | 2321 | 2454 |
| | 14,0 | 64 | 908 | 1006 | 1105 | 1291 | 1415 | 1410 | 1576 | 1777 | 2099 | 2240 | 2368 |
| | 16,0 | 56 | 747 | 828 | 910 | 1102 | 1208 | 1223 | 1366 | 1541 | 1626 | 1735 | 1834 |
| | 18,0 | 50 | 744 | 824 | 905 | 911 | 999 | 1192 | 1332 | 1502 | 1496 | 1597 | 1688 |
| | 20,0 | 45 | 636 | 705 | 774 | 915 | 1003 | 988 | 1103 | 1245 | 1468 | 1567 | 1656 |
| | 22,4 | 40 | 534 | 592 | 650 | 706 | 774 | 911 | 1018 | 1148 | 1209 | 1290 | 1364 |
| 25,0 | 36 | 531 | 589 | 647 | 669 | 733 | 888 | 992 | 1119 | 1083 | 1156 | 1222 | |
| 28,0 | 32 | | | | 653 | 716 | | | | 1083 | 1156 | 1222 | |

Type VP2 Parallel Shaft

Torque Ratings – kNm/Double Reduction

(kNm AT LOW SPEED SHAFT)

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 | |
| 1000 | 5,00 | 200 | 129 | 143 | 157 | | | 195 | 218 | 246 | | | | |
| | 5,60 | 179 | 121 | 134 | 147 | 167 | 183 | 199 | 222 | 251 | 244 | 261 | 275 | |
| | 6,30 | 159 | 132 | 146 | 161 | 166 | 182 | 212 | 237 | 267 | 272 | 290 | 307 | |
| | 7,10 | 141 | 133 | 148 | 162 | 178 | 195 | 204 | 228 | 257 | 278 | 297 | 314 | |
| | 8,00 | 125 | 124 | 138 | 151 | 180 | 197 | 205 | 229 | 258 | 258 | 275 | 291 | |
| | 9,00 | 111 | 136 | 150 | 165 | 171 | 188 | 219 | 244 | 276 | 279 | 298 | 315 | |
| | 10,0 | 100 | 136 | 151 | 165 | 183 | 201 | 209 | 234 | 264 | 292 | 312 | 330 | |
| | 11,2 | 89 | 126 | 140 | 154 | 184 | 201 | 209 | 234 | 264 | 267 | 285 | 301 | |
| | 12,5 | 80 | 138 | 153 | 168 | 174 | 191 | 223 | 250 | 282 | 286 | 305 | 323 | |
| | 14,0 | 71 | 138 | 153 | 168 | 186 | 204 | 213 | 239 | 269 | 302 | 323 | 341 | |
| | 16,0 | 63 | 128 | 142 | 156 | 186 | 204 | 213 | 238 | 269 | 277 | 295 | 312 | |
| | 18,0 | 56 | 140 | 155 | 170 | 173 | 189 | 227 | 254 | 286 | 291 | 311 | 328 | |
| | 20,0 | 50 | 136 | 151 | 165 | 188 | 206 | 215 | 240 | 271 | 312 | 333 | 352 | |
| | 22,4 | 45 | 129 | 143 | 158 | 168 | 184 | 215 | 240 | 271 | 293 | 313 | 331 | |
| | 25,0 | 40 | 141 | 156 | 171 | 178 | 196 | 229 | 256 | 289 | 285 | 304 | 321 | |
| 28,0 | 36 | | | | 190 | 208 | | | | 310 | 331 | 350 | | |
| 900 | 5,00 | 180 | 130 | 144 | 159 | | | 195 | 218 | 246 | | | | |
| | 5,60 | 161 | 122 | 135 | 148 | 167 | 183 | 200 | 223 | 252 | 244 | 261 | 275 | |
| | 6,30 | 143 | 133 | 147 | 162 | 168 | 184 | 214 | 239 | 270 | 273 | 291 | 308 | |
| | 7,10 | 127 | 134 | 149 | 164 | 180 | 197 | 206 | 230 | 259 | 278 | 297 | 314 | |
| | 8,00 | 113 | 125 | 139 | 152 | 180 | 197 | 206 | 230 | 260 | 258 | 275 | 291 | |
| | 9,00 | 100 | 136 | 151 | 166 | 173 | 189 | 220 | 246 | 278 | 282 | 301 | 318 | |
| | 10,0 | 90 | 137 | 151 | 166 | 184 | 202 | 211 | 235 | 265 | 292 | 312 | 330 | |
| | 11,2 | 80 | 127 | 141 | 155 | 185 | 202 | 210 | 235 | 265 | 267 | 285 | 301 | |
| | 12,5 | 72 | 138 | 153 | 168 | 175 | 192 | 225 | 251 | 283 | 287 | 307 | 324 | |
| | 14,0 | 64 | 138 | 153 | 169 | 187 | 205 | 214 | 240 | 270 | 302 | 323 | 341 | |
| | 16,0 | 56 | 129 | 143 | 157 | 187 | 205 | 214 | 239 | 270 | 277 | 295 | 312 | |
| | 18,0 | 50 | 140 | 155 | 170 | 173 | 189 | 228 | 255 | 287 | 292 | 312 | 330 | |
| | 20,0 | 45 | 137 | 152 | 167 | 189 | 207 | 215 | 241 | 271 | 312 | 333 | 352 | |
| | 22,4 | 40 | 130 | 144 | 158 | 169 | 185 | 216 | 241 | 272 | 294 | 314 | 332 | |
| | 25,0 | 36 | 141 | 156 | 172 | 179 | 196 | 230 | 257 | 290 | 286 | 305 | 323 | |
| 28,0 | 32 | | | | 190 | 209 | | | | 312 | 333 | 352 | | |

Type VP3 Parallel Shaft

Power Ratings – kW/Triple Reduction

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1800 | 28,0 | 64 | | | | | | | | | | | | | | | 498 | 547 | 589 | |
| | 31,5 | 57 | 45 | 63 | 100 | 109 | 137 | 153 | 173 | 191 | 230 | 257 | 293 | 321 | 367 | 418 | 498 | 547 | 589 | 589 |
| | 35,5 | 51 | 45 | 63 | 100 | 109 | 137 | 153 | 173 | 191 | 230 | 257 | 293 | 320 | 366 | 417 | 483 | 530 | 571 | 589 |
| | 40,0 | 45 | 44 | 62 | 96 | 109 | 137 | 153 | 172 | 190 | 217 | 243 | 277 | 317 | 362 | 413 | 396 | 436 | 469 | 589 |
| | 45,0 | 40 | 34 | 51 | 76 | 93 | 116 | 124 | 140 | 154 | 179 | 200 | 229 | 250 | 286 | 326 | 363 | 399 | 429 | 469 |
| | 50,0 | 36 | 34 | 49 | 75 | 90 | 113 | 124 | 140 | 154 | 174 | 195 | 222 | 245 | 281 | 320 | 344 | 378 | 407 | 466 |
| | 56,0 | 32 | 31 | 43 | 71 | 85 | 106 | 114 | 128 | 142 | 152 | 170 | 194 | 222 | 254 | 290 | 309 | 340 | 366 | 433 |
| | 63,0 | 29 | 25 | 36 | 55 | 65 | 81 | 87 | 98 | 108 | 143 | 160 | 183 | 182 | 208 | 237 | 263 | 289 | 311 | 377 |
| | 71,0 | 25 | 25 | 33 | 54 | 62 | 77 | 88 | 99 | 110 | 126 | 141 | 161 | 174 | 199 | 227 | 250 | 274 | 295 | 338 |
| | 80,0 | 23 | 22 | 29 | 51 | 58 | 73 | 79 | 89 | 99 | 110 | 123 | 140 | 158 | 181 | 206 | 221 | 243 | 262 | 315 |
| | 90,0 | 20 | 17 | 27 | 42 | 47 | 58 | 62 | 71 | 78 | 98 | 110 | 125 | 132 | 152 | 173 | 188 | 207 | 223 | 272 |
| | 100 | 18 | 17 | 25 | 39 | 43 | 54 | 62 | 70 | 77 | 92 | 103 | 117 | 125 | 144 | 164 | 178 | 196 | 211 | 242 |
| | 112 | 16 | 15 | 22 | 37 | 41 | 52 | 56 | 63 | 70 | 80 | 90 | 102 | 114 | 130 | 148 | 155 | 171 | 184 | 225 |
| | 125 | 14 | 12 | 20 | 29 | 34 | 43 | 46 | 52 | 58 | 70 | 79 | 90 | 94 | 107 | 122 | 132 | 145 | 156 | 191 |
| | 140 | 13 | 12 | 18 | 27 | 32 | 39 | 46 | 52 | 57 | 66 | 73 | 84 | 89 | 102 | 116 | 125 | 138 | 148 | 170 |
| | 160 | 11 | 11 | 16 | 26 | 30 | 38 | 41 | 47 | 52 | 57 | 64 | 73 | 81 | 92 | 105 | | | | 158 |
| 1500 | 28,0 | 54 | | | | | | | | | | | | | | | 438 | 482 | 518 | |
| | 31,5 | 48 | 39 | 56 | 85 | 96 | 120 | 135 | 153 | 168 | 202 | 226 | 258 | 282 | 323 | 368 | 426 | 468 | 503 | 518 |
| | 35,5 | 42 | 39 | 56 | 85 | 96 | 120 | 135 | 153 | 168 | 202 | 226 | 258 | 282 | 322 | 367 | 404 | 444 | 477 | 518 |
| | 40,0 | 38 | 36 | 51 | 80 | 96 | 120 | 127 | 144 | 159 | 182 | 203 | 232 | 264 | 302 | 344 | 349 | 383 | 413 | 509 |
| | 45,0 | 33 | 30 | 44 | 63 | 79 | 99 | 104 | 117 | 130 | 158 | 176 | 201 | 214 | 245 | 279 | 303 | 333 | 358 | 413 |
| | 50,0 | 30 | 29 | 41 | 63 | 75 | 94 | 105 | 118 | 131 | 145 | 163 | 186 | 205 | 234 | 267 | 287 | 316 | 340 | 389 |
| | 56,0 | 27 | 26 | 36 | 59 | 71 | 88 | 95 | 107 | 118 | 127 | 142 | 162 | 186 | 212 | 242 | 258 | 284 | 306 | 362 |
| | 63,0 | 24 | 23 | 30 | 45 | 54 | 68 | 73 | 82 | 90 | 120 | 134 | 153 | 151 | 173 | 197 | 220 | 242 | 260 | 317 |
| | 71,0 | 21 | 21 | 28 | 45 | 51 | 64 | 73 | 83 | 91 | 105 | 117 | 134 | 145 | 166 | 189 | 208 | 229 | 246 | 282 |
| | 80,0 | 19 | 18 | 25 | 43 | 48 | 61 | 66 | 75 | 82 | 92 | 102 | 117 | 132 | 151 | 172 | 185 | 203 | 219 | 263 |
| | 90,0 | 17 | 14 | 23 | 35 | 39 | 49 | 52 | 59 | 65 | 82 | 92 | 105 | 110 | 126 | 144 | 157 | 173 | 186 | 227 |
| | 100 | 15 | 14 | 20 | 32 | 36 | 45 | 51 | 58 | 64 | 77 | 86 | 98 | 105 | 120 | 136 | 149 | 164 | 176 | 202 |
| | 112 | 13 | 13 | 18 | 31 | 34 | 43 | 47 | 53 | 58 | 67 | 75 | 85 | 95 | 109 | 124 | 130 | 142 | 153 | 188 |
| | 125 | 12 | 10 | 16 | 24 | 29 | 36 | 38 | 43 | 48 | 59 | 66 | 75 | 78 | 89 | 102 | 110 | 121 | 130 | 159 |
| | 140 | 11 | 10 | 15 | 23 | 26 | 33 | 38 | 43 | 47 | 55 | 61 | 70 | 74 | 85 | 97 | 104 | 115 | 123 | 142 |
| | 160 | 9 | 10 | 13 | 22 | 25 | 31 | 34 | 39 | 43 | 48 | 53 | 61 | 67 | 77 | 88 | | | | 132 |
| 1200 | 28,0 | 43 | | | | | | | | | | | | | | | 375 | 412 | 443 | |
| | 31,5 | 38 | 33 | 48 | 68 | 78 | 98 | 112 | 126 | 139 | 173 | 193 | 221 | 238 | 272 | 310 | 342 | 376 | 404 | 443 |
| | 35,5 | 34 | 33 | 45 | 68 | 78 | 98 | 113 | 127 | 141 | 167 | 187 | 213 | 229 | 262 | 298 | 324 | 356 | 383 | 439 |
| | 40,0 | 30 | 29 | 41 | 64 | 78 | 98 | 102 | 115 | 127 | 146 | 163 | 186 | 211 | 242 | 275 | 286 | 314 | 338 | 409 |
| | 45,0 | 27 | 24 | 35 | 50 | 63 | 79 | 83 | 94 | 104 | 133 | 148 | 169 | 171 | 196 | 223 | 243 | 267 | 288 | 351 |
| | 50,0 | 24 | 23 | 33 | 50 | 60 | 75 | 84 | 95 | 105 | 117 | 130 | 149 | 164 | 188 | 214 | 230 | 253 | 273 | 312 |
| | 56,0 | 21 | 21 | 29 | 47 | 57 | 71 | 76 | 85 | 94 | 102 | 114 | 130 | 149 | 170 | 194 | 207 | 228 | 245 | 291 |
| | 63,0 | 19 | 17 | 24 | 36 | 43 | 54 | 58 | 65 | 72 | 96 | 107 | 122 | 121 | 139 | 158 | 176 | 194 | 209 | 254 |
| | 71,0 | 17 | 16 | 22 | 36 | 41 | 52 | 59 | 66 | 73 | 84 | 94 | 107 | 116 | 133 | 151 | 167 | 184 | 198 | 226 |
| | 80,0 | 15 | 15 | 20 | 34 | 39 | 49 | 53 | 60 | 66 | 73 | 82 | 94 | 106 | 121 | 138 | 148 | 163 | 175 | 211 |
| | 90,0 | 13 | 11 | 18 | 28 | 31 | 39 | 42 | 47 | 52 | 66 | 74 | 84 | 88 | 101 | 115 | 126 | 138 | 149 | 182 |
| | 100 | 12 | 11 | 16 | 26 | 29 | 36 | 41 | 47 | 51 | 61 | 69 | 78 | 84 | 96 | 109 | 119 | 131 | 141 | 162 |
| | 112 | 11 | 10 | 14 | 25 | 27 | 34 | 37 | 42 | 47 | 54 | 60 | 68 | 76 | 87 | 99 | 104 | 114 | 123 | 150 |
| | 125 | 10 | 8 | 13 | 19 | 23 | 29 | 31 | 35 | 38 | 47 | 53 | 60 | 63 | 71 | 81 | 88 | 97 | 104 | 128 |
| | 140 | 9 | 8 | 12 | 18 | 21 | 26 | 30 | 34 | 38 | 44 | 49 | 56 | 59 | 68 | 77 | 84 | 92 | 99 | 113 |
| | 160 | 8 | 8 | 10 | 17 | 20 | 25 | 28 | 31 | 34 | 38 | 43 | 49 | 54 | 62 | 70 | | | | 105 |

Type VP3 Parallel Shaft

Torque Ratings – kNm/Triple Reduction

(kNm AT LOW SPEED SHAFT)

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|--|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 | |
| 1800 | 28,0 | 64 | | | | | | | | | | | | | | | | 77,9 | 85,7 | 92,2 | |
| | 31,5 | 57 | 7,65 | 10,4 | 17,4 | 18,2 | 22,8 | 25,8 | 29,2 | 32,2 | 38,4 | 43,0 | 49,0 | 54,6 | 62,5 | 71,2 | 86,2 | 94,8 | 102,0 | 100,4 | |
| | 35,5 | 51 | 8,37 | 11,8 | 19,6 | 20,5 | 25,6 | 28,9 | 32,7 | 36,1 | 44,5 | 49,7 | 56,8 | 60,0 | 68,6 | 78,2 | 95,5 | 105,0 | 113,0 | 109,3 | |
| | 40,0 | 45 | 9,11 | 12,9 | 20,2 | 22,1 | 27,7 | 33,1 | 37,3 | 41,2 | 45,5 | 50,9 | 58,1 | 65,7 | 75,1 | 85,6 | 87,7 | 96,4 | 103,7 | 125,3 | |
| | 45,0 | 40 | 8,33 | 11,9 | 18,2 | 21,9 | 27,4 | 28,9 | 32,6 | 36,0 | 43,1 | 48,2 | 55,0 | 61,0 | 69,7 | 79,4 | 88,7 | 97,5 | 105,0 | 113,0 | |
| | 50,0 | 36 | 9,10 | 13,2 | 20,4 | 23,8 | 29,8 | 32,3 | 36,5 | 40,3 | 48,5 | 54,2 | 61,9 | 65,9 | 75,4 | 85,9 | 96,2 | 105,7 | 113,7 | 122,1 | |
| | 56,0 | 32 | 9,13 | 13,0 | 20,7 | 24,2 | 30,3 | 34,0 | 38,4 | 42,4 | 45,7 | 51,2 | 58,4 | 66,1 | 75,6 | 86,1 | 94,7 | 104,1 | 112,1 | 130,3 | |
| | 63,0 | 29 | 8,68 | 12,4 | 18,2 | 22,9 | 28,7 | 29,1 | 32,8 | 36,2 | 47,8 | 53,5 | 61,0 | 62,6 | 71,6 | 81,6 | 89,2 | 98,0 | 105,5 | 125,7 | |
| | 71,0 | 25 | 9,29 | 13,2 | 20,4 | 23,9 | 29,9 | 32,9 | 37,1 | 41,0 | 48,7 | 54,4 | 62,1 | 66,1 | 75,7 | 86,2 | 96,6 | 106,2 | 114,2 | 122,7 | |
| | 80,0 | 23 | 9,15 | 13,0 | 20,7 | 24,3 | 30,4 | 34,0 | 38,4 | 42,4 | 45,9 | 51,3 | 58,6 | 66,4 | 75,9 | 86,5 | 95,1 | 104,6 | 112,5 | 130,9 | |
| | 90,0 | 20 | 8,17 | 13,3 | 20,5 | 23,2 | 29,1 | 29,8 | 33,7 | 37,2 | 44,9 | 50,2 | 57,3 | 63,6 | 72,8 | 82,9 | 89,5 | 98,4 | 105,9 | 127,5 | |
| | 100 | 18 | 8,93 | 13,1 | 20,5 | 23,5 | 29,5 | 33,0 | 37,2 | 41,1 | 48,8 | 54,6 | 62,3 | 66,4 | 76,0 | 86,5 | 96,9 | 106,5 | 114,6 | 123,2 | |
| | 112 | 16 | 9,16 | 13,0 | 21,0 | 24,3 | 30,5 | 34,4 | 38,8 | 42,8 | 46,0 | 51,5 | 58,7 | 66,5 | 76,1 | 86,7 | 95,4 | 104,9 | 112,8 | 131,3 | |
| | 125 | 14 | 8,19 | 13,3 | 19,5 | 23,3 | 29,2 | 29,8 | 33,7 | 37,2 | 45,2 | 50,5 | 57,6 | 63,6 | 72,8 | 82,9 | 89,7 | 98,7 | 106,2 | 127,9 | |
| | 140 | 13 | 8,95 | 13,2 | 20,4 | 23,6 | 29,6 | 33,0 | 37,3 | 41,2 | 48,9 | 54,7 | 62,4 | 66,6 | 76,1 | 86,7 | 97,1 | 106,8 | 114,9 | 123,5 | |
| | 160 | 11 | 9,17 | 13,0 | 21,0 | 24,4 | 30,5 | 34,4 | 38,8 | 42,9 | 46,1 | 51,6 | 58,8 | 66,7 | 76,3 | 86,9 | | | | 131,7 | |
| 1500 | 28,0 | 54 | | | | | | | | | | | | | | | | 82,3 | 90,5 | 97,4 | |
| | 31,5 | 48 | 8,08 | 11,0 | 17,7 | 19,3 | 24,1 | 27,3 | 30,8 | 34,0 | 40,6 | 45,4 | 51,8 | 57,7 | 66,0 | 75,2 | 88,4 | 97,2 | 104,6 | 106,1 | |
| | 35,5 | 42 | 8,84 | 12,5 | 19,9 | 21,6 | 27,1 | 30,6 | 34,5 | 38,1 | 47,0 | 52,5 | 59,9 | 63,4 | 72,5 | 82,6 | 95,9 | 105,4 | 113,4 | 115,4 | |
| | 40,0 | 38 | 9,12 | 13,0 | 20,2 | 23,4 | 29,3 | 33,1 | 37,3 | 41,2 | 45,6 | 51,0 | 58,2 | 65,7 | 75,1 | 85,6 | 92,6 | 101,8 | 109,5 | 129,9 | |
| | 45,0 | 33 | 8,68 | 12,4 | 18,2 | 22,4 | 28,0 | 29,1 | 32,8 | 36,2 | 45,5 | 50,9 | 58,1 | 62,6 | 71,7 | 81,6 | 89,0 | 97,8 | 105,3 | 119,3 | |
| | 50,0 | 30 | 9,28 | 13,2 | 20,4 | 23,9 | 29,9 | 32,8 | 37,1 | 41,0 | 48,6 | 54,3 | 62,0 | 66,1 | 75,6 | 86,1 | 96,4 | 106,0 | 114,0 | 122,5 | |
| | 56,0 | 27 | 9,14 | 13,0 | 20,7 | 24,3 | 30,4 | 34,0 | 38,4 | 42,4 | 45,8 | 51,3 | 58,5 | 66,2 | 75,8 | 86,3 | 95,0 | 104,4 | 112,3 | 130,7 | |
| | 63,0 | 24 | 8,68 | 12,4 | 18,2 | 22,4 | 28,0 | 29,1 | 32,8 | 36,2 | 47,9 | 53,6 | 61,2 | 62,6 | 71,6 | 81,6 | 89,4 | 98,2 | 105,7 | 127,0 | |
| | 71,0 | 21 | 9,30 | 13,2 | 20,5 | 23,9 | 30,0 | 32,9 | 37,1 | 41,0 | 48,7 | 54,5 | 62,2 | 66,1 | 75,7 | 86,2 | 96,8 | 106,4 | 114,5 | 123,0 | |
| | 80,0 | 19 | 9,16 | 13,0 | 20,7 | 24,3 | 30,5 | 34,0 | 38,4 | 42,4 | 46,0 | 51,4 | 58,7 | 66,5 | 76,0 | 86,6 | 95,3 | 104,7 | 112,7 | 131,1 | |
| | 90,0 | 17 | 8,18 | 13,3 | 20,5 | 23,3 | 29,2 | 29,8 | 33,7 | 37,2 | 45,0 | 50,4 | 57,5 | 63,6 | 72,8 | 82,9 | 89,6 | 98,5 | 106,0 | 127,7 | |
| | 100 | 15 | 8,95 | 13,2 | 20,5 | 23,6 | 29,5 | 33,0 | 37,3 | 41,2 | 48,8 | 54,6 | 62,3 | 66,5 | 76,1 | 86,6 | 97,0 | 106,7 | 114,8 | 123,4 | |
| | 112 | 13 | 9,17 | 13,0 | 21,0 | 24,4 | 30,5 | 34,4 | 38,8 | 42,9 | 46,1 | 51,5 | 58,8 | 66,6 | 76,2 | 86,8 | 95,5 | 105,0 | 113,0 | 131,5 | |
| | 125 | 12 | 8,20 | 13,3 | 19,5 | 23,4 | 29,3 | 29,8 | 33,7 | 37,2 | 45,3 | 50,7 | 57,8 | 63,6 | 72,8 | 82,9 | 89,8 | 98,8 | 106,3 | 128,0 | |
| | 140 | 11 | 8,97 | 13,2 | 20,4 | 23,7 | 29,7 | 33,1 | 37,3 | 41,2 | 48,9 | 54,7 | 62,4 | 66,6 | 76,2 | 86,8 | 97,2 | 106,9 | 115,0 | 123,7 | |
| | 160 | 9 | 9,18 | 13,0 | 21,0 | 24,4 | 30,5 | 34,4 | 38,9 | 42,9 | 46,1 | 51,6 | 58,9 | 66,7 | 76,3 | 87,0 | | | | 131,8 | |
| 1200 | 28,0 | 43 | | | | | | | | | | | | | | | | 88,0 | 96,8 | 104,1 | |
| | 31,5 | 38 | 8,44 | 11,7 | 17,7 | 19,5 | 24,4 | 28,2 | 31,8 | 35,1 | 43,4 | 48,5 | 55,4 | 60,8 | 69,5 | 79,2 | 88,8 | 97,6 | 105,1 | 113,4 | |
| | 35,5 | 34 | 9,27 | 12,7 | 19,9 | 21,9 | 27,4 | 31,9 | 36,0 | 39,8 | 48,5 | 54,3 | 61,9 | 64,3 | 73,6 | 83,8 | 96,2 | 105,8 | 113,8 | 122,2 | |
| | 40,0 | 30 | 9,13 | 13,0 | 20,2 | 23,7 | 29,7 | 33,1 | 37,3 | 41,2 | 45,8 | 51,2 | 58,4 | 65,7 | 75,1 | 85,6 | 94,8 | 104,3 | 112,2 | 130,4 | |
| | 45,0 | 27 | 8,68 | 12,4 | 18,2 | 22,4 | 28,0 | 29,1 | 32,8 | 36,2 | 47,9 | 53,6 | 61,1 | 62,6 | 71,7 | 81,6 | 89,3 | 98,1 | 105,6 | 127,0 | |
| | 50,0 | 24 | 9,29 | 13,2 | 20,4 | 23,9 | 29,9 | 32,9 | 37,1 | 41,0 | 48,7 | 54,5 | 62,1 | 66,2 | 75,7 | 86,2 | 96,7 | 106,3 | 114,3 | 122,9 | |
| | 56,0 | 21 | 9,15 | 13,0 | 20,7 | 24,3 | 30,4 | 34,0 | 38,4 | 42,4 | 45,9 | 51,4 | 58,6 | 66,4 | 76,0 | 86,5 | 95,2 | 104,6 | 112,6 | 131,0 | |
| | 63,0 | 19 | 8,68 | 12,4 | 18,2 | 22,4 | 28,0 | 29,1 | 32,8 | 36,2 | 48,0 | 53,7 | 61,3 | 62,6 | 71,6 | 81,6 | 89,6 | 98,5 | 105,9 | 127,0 | |
| | 71,0 | 17 | 9,30 | 13,2 | 20,5 | 24,0 | 30,0 | 32,9 | 37,1 | 41,0 | 48,8 | 54,6 | 62,3 | 66,1 | 75,7 | 86,2 | 97,0 | 106,6 | 114,7 | 123,3 | |
| | 80,0 | 15 | 9,16 | 13,0 | 20,7 | 24,3 | 30,5 | 34,0 | 38,4 | 42,4 | 46,0 | 51,5 | 58,8 | 66,6 | 76,2 | 86,8 | 95,4 | 104,9 | 112,9 | 131,4 | |
| | 90,0 | 13 | 8,20 | 13,3 | 20,5 | 23,4 | 29,3 | 29,8 | 33,7 | 37,2 | 45,2 | 50,6 | 57,7 | 63,6 | 72,8 | 82,9 | 89,8 | 98,7 | 106,2 | 127,9 | |
| | 100 | 12 | 8,96 | 13,2 | 20,5 | 23,7 | 29,6 | 33,1 | 37,3 | 41,2 | 48,9 | 54,7 | 62,4 | 66,6 | 76,2 | 86,8 | 97,2 | 106,8 | 114,9 | 123,6 | |
| | 112 | 11 | 9,17 | 13,0 | 21,0 | 24,4 | 30,5 | 34,4 | 38,8 | 42,9 | 46,1 | 51,6 | 58,8 | 66,7 | 76,3 | 86,9 | 95,6 | 105,1 | 113,1 | 131,7 | |
| | 125 | 10 | 8,21 | 13,3 | 19,5 | 23,4 | 29,4 | 29,8 | 33,7 | 37,2 | 45,4 | 50,8 | 57,9 | 63,6 | 72,8 | 82,9 | 89,9 | 98,9 | 106,4 | 128,1 | |
| | 140 | 9 | 8,98 | 13,2 | 20,4 | 23,7 | 29,7 | 33,1 | 37,3 | 41,3 | 49,0 | 54,8 | 62,5 | 66,7 | 76,3 | 86,9 | 97,3 | 107,0 | 115,1 | 123,8 | |
| | 160 | 8 | 9,18 | 13,1 | 21,0 | 24,4 | 30,6 | 34,4 | 38,9 | 42,9 | 46,2 | 51,6 | 58,9 | 66,8 | 76,4 | 87,0 | | | | 131,8 | |

Type VP3 Parallel Shaft

Power Ratings – kW/Triple Reduction

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|-----|------|-----|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1800 | 28,0 | 64 | 877 | 967 | 1060 | | | 1342 | 1495 | 1664 | | | |
| | 31,5 | 57 | 760 | 839 | 919 | 969 | 1060 | 1294 | 1441 | 1604 | 1482 | 1560 | 1664 |
| | 35,5 | 51 | 757 | 835 | 915 | 949 | 1037 | 1261 | 1405 | 1564 | 1482 | 1560 | 1664 |
| | 40,0 | 45 | 654 | 721 | 790 | 927 | 1013 | 974 | 1085 | 1208 | 1482 | 1560 | 1664 |
| | 45,0 | 40 | 538 | 593 | 650 | 790 | 864 | 886 | 986 | 1098 | 1076 | 1132 | 1208 |
| | 50,0 | 36 | 535 | 590 | 646 | 671 | 733 | 863 | 961 | 1070 | 1073 | 1130 | 1205 |
| | 56,0 | 32 | 458 | 505 | 553 | 655 | 716 | 710 | 791 | 881 | 1039 | 1094 | 1167 |
| | 63,0 | 29 | 376 | 415 | 455 | 553 | 605 | 622 | 693 | 771 | 784 | 826 | 881 |
| | 71,0 | 25 | 374 | 413 | 452 | 470 | 513 | 606 | 675 | 751 | 754 | 793 | 846 |
| | 80,0 | 23 | 326 | 360 | 394 | 458 | 501 | 501 | 558 | 621 | 725 | 763 | 814 |
| | 90,0 | 20 | 268 | 295 | 324 | 361 | 394 | 461 | 514 | 572 | 589 | 620 | 661 |
| | 100 | 18 | 266 | 294 | 322 | 334 | 365 | 449 | 500 | 557 | 559 | 588 | 628 |
| | 112 | 16 | 238 | 263 | 288 | 326 | 356 | 360 | 401 | 447 | 544 | 572 | 610 |
| | 125 | 14 | 196 | 216 | 237 | 266 | 290 | 332 | 370 | 411 | 427 | 450 | 480 |
| | 140 | 13 | 195 | 215 | 235 | 244 | 267 | 323 | 360 | 400 | 402 | 423 | 452 |
| | 160 | 11 | | | | 238 | 261 | | | | 390 | 410 | 438 |
| 1500 | 28,0 | 54 | 730 | 806 | 883 | | | 1181 | 1316 | 1465 | | | |
| | 31,5 | 48 | 637 | 703 | 770 | 808 | 883 | 1084 | 1208 | 1344 | 1304 | 1373 | 1465 |
| | 35,5 | 42 | 634 | 699 | 766 | 795 | 869 | 1057 | 1177 | 1310 | 1304 | 1373 | 1465 |
| | 40,0 | 38 | 547 | 603 | 661 | 776 | 848 | 813 | 906 | 1008 | 1238 | 1304 | 1391 |
| | 45,0 | 33 | 450 | 496 | 543 | 661 | 722 | 741 | 825 | 918 | 898 | 945 | 1008 |
| | 50,0 | 30 | 447 | 493 | 540 | 561 | 613 | 722 | 804 | 895 | 898 | 945 | 1008 |
| | 56,0 | 27 | 382 | 422 | 462 | 548 | 599 | 592 | 660 | 734 | 866 | 912 | 972 |
| | 63,0 | 24 | 314 | 347 | 380 | 462 | 505 | 520 | 579 | 644 | 654 | 688 | 734 |
| | 71,0 | 21 | 312 | 345 | 378 | 392 | 429 | 506 | 564 | 627 | 630 | 663 | 707 |
| | 80,0 | 19 | 272 | 300 | 329 | 383 | 418 | 418 | 466 | 518 | 604 | 636 | 678 |
| | 90,0 | 17 | 223 | 247 | 270 | 302 | 330 | 385 | 429 | 478 | 494 | 520 | 555 |
| | 100 | 15 | 222 | 245 | 268 | 279 | 305 | 375 | 418 | 465 | 467 | 491 | 524 |
| | 112 | 13 | 199 | 220 | 240 | 272 | 297 | 301 | 335 | 373 | 453 | 477 | 509 |
| | 125 | 12 | 163 | 180 | 198 | 222 | 243 | 277 | 309 | 343 | 358 | 377 | 402 |
| | 140 | 11 | 162 | 179 | 196 | 204 | 223 | 270 | 300 | 334 | 336 | 353 | 377 |
| | 160 | 9 | | | | 199 | 217 | | | | 325 | 342 | 365 |
| 1200 | 28,0 | 43 | 586 | 647 | 709 | | | 948 | 1056 | 1176 | | | |
| | 31,5 | 38 | 512 | 565 | 619 | 648 | 709 | 872 | 972 | 1082 | 1047 | 1102 | 1176 |
| | 35,5 | 34 | 509 | 562 | 616 | 639 | 698 | 850 | 947 | 1054 | 1047 | 1102 | 1176 |
| | 40,0 | 30 | 439 | 484 | 531 | 624 | 682 | 851 | 925 | 1007 | 991 | 1043 | 1112 |
| | 45,0 | 27 | 361 | 398 | 436 | 531 | 580 | 595 | 663 | 738 | 718 | 756 | 807 |
| | 50,0 | 24 | 359 | 396 | 434 | 450 | 492 | 579 | 645 | 718 | 718 | 756 | 807 |
| | 56,0 | 21 | 307 | 339 | 371 | 440 | 480 | 474 | 528 | 587 | 693 | 729 | 778 |
| | 63,0 | 19 | 252 | 278 | 305 | 371 | 405 | 417 | 464 | 517 | 523 | 551 | 587 |
| | 71,0 | 17 | 251 | 276 | 303 | 315 | 344 | 406 | 452 | 503 | 505 | 532 | 567 |
| | 80,0 | 15 | 218 | 241 | 263 | 307 | 335 | 335 | 373 | 416 | 483 | 509 | 543 |
| | 90,0 | 13 | 179 | 198 | 216 | 243 | 266 | 309 | 344 | 383 | 398 | 419 | 447 |
| | 100 | 12 | 178 | 196 | 215 | 223 | 244 | 301 | 335 | 373 | 374 | 394 | 420 |
| | 112 | 11 | 159 | 176 | 193 | 218 | 238 | 241 | 268 | 299 | 362 | 381 | 407 |
| | 125 | 10 | 131 | 144 | 158 | 178 | 195 | 222 | 247 | 275 | 288 | 303 | 323 |
| | 140 | 9 | 130 | 144 | 157 | 163 | 179 | 216 | 241 | 268 | 269 | 283 | 302 |
| | 160 | 8 | | | | 159 | 174 | | | | 260 | 273 | 292 |

Type VP3 Parallel Shaft

Torque Ratings – kNm/Triple Reduction

(kNm AT LOW SPEED SHAFT)

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 | |
| 1800 | 28,0 | 64 | 132 | 146 | 160 | | | 196 | 218 | 243 | | | | |
| | 31,5 | 57 | 130 | 143 | 157 | 163 | 178 | 217 | 242 | 269 | 242 | 255 | 272 | |
| | 35,5 | 51 | 141 | 156 | 170 | 178 | 194 | 231 | 258 | 287 | 277 | 292 | 312 | |
| | 40,0 | 45 | 141 | 155 | 170 | 189 | 207 | 210 | 234 | 260 | 302 | 318 | 340 | |
| | 45,0 | 40 | 131 | 144 | 158 | 189 | 207 | 219 | 245 | 272 | 259 | 273 | 291 | |
| | 50,0 | 36 | 142 | 157 | 172 | 179 | 196 | 234 | 260 | 290 | 297 | 312 | 333 | |
| | 56,0 | 32 | 142 | 156 | 171 | 191 | 209 | 219 | 244 | 272 | 313 | 330 | 352 | |
| | 63,0 | 29 | 132 | 145 | 159 | 191 | 208 | 221 | 246 | 274 | 271 | 285 | 304 | |
| | 71,0 | 25 | 143 | 158 | 173 | 181 | 197 | 235 | 262 | 292 | 299 | 315 | 336 | |
| | 80,0 | 23 | 142 | 157 | 172 | 192 | 210 | 222 | 247 | 275 | 313 | 330 | 352 | |
| | 90,0 | 20 | 132 | 146 | 160 | 175 | 192 | 222 | 247 | 275 | 291 | 307 | 327 | |
| | 100 | 18 | 143 | 158 | 173 | 181 | 198 | 236 | 263 | 293 | 300 | 316 | 337 | |
| | 112 | 16 | 143 | 158 | 173 | 193 | 211 | 223 | 248 | 276 | 318 | 335 | 357 | |
| | 125 | 14 | 132 | 146 | 160 | 177 | 193 | 223 | 248 | 276 | 295 | 310 | 331 | |
| | 140 | 13 | 144 | 159 | 174 | 182 | 199 | 237 | 264 | 294 | 301 | 317 | 338 | |
| 160 | 11 | | | | 193 | 211 | | | | 318 | 335 | 357 | | |
| 1500 | 28,0 | 54 | 132 | 146 | 160 | | | 207 | 230 | 256 | | | | |
| | 31,5 | 48 | 130 | 144 | 157 | 163 | 178 | 218 | 243 | 271 | 255 | 269 | 287 | |
| | 35,5 | 42 | 142 | 156 | 171 | 179 | 195 | 233 | 259 | 288 | 293 | 309 | 329 | |
| | 40,0 | 38 | 141 | 156 | 171 | 190 | 208 | 210 | 234 | 261 | 303 | 319 | 341 | |
| | 45,0 | 33 | 131 | 145 | 159 | 190 | 208 | 220 | 245 | 273 | 260 | 273 | 292 | |
| | 50,0 | 30 | 143 | 157 | 172 | 180 | 197 | 235 | 261 | 291 | 298 | 314 | 335 | |
| | 56,0 | 27 | 142 | 157 | 172 | 192 | 209 | 219 | 244 | 272 | 313 | 330 | 352 | |
| | 63,0 | 24 | 132 | 145 | 159 | 191 | 209 | 222 | 247 | 275 | 271 | 285 | 304 | |
| | 71,0 | 21 | 143 | 158 | 173 | 181 | 198 | 236 | 263 | 293 | 300 | 316 | 337 | |
| | 80,0 | 19 | 143 | 157 | 172 | 193 | 210 | 222 | 248 | 276 | 313 | 330 | 352 | |
| | 90,0 | 17 | 132 | 146 | 160 | 176 | 193 | 222 | 248 | 276 | 293 | 309 | 329 | |
| | 100 | 15 | 144 | 159 | 174 | 182 | 198 | 237 | 264 | 293 | 301 | 317 | 338 | |
| | 112 | 13 | 143 | 158 | 173 | 193 | 211 | 223 | 248 | 276 | 318 | 335 | 357 | |
| | 125 | 12 | 133 | 146 | 160 | 178 | 194 | 223 | 248 | 277 | 296 | 312 | 332 | |
| | 140 | 11 | 144 | 159 | 174 | 182 | 199 | 237 | 264 | 294 | 302 | 318 | 339 | |
| 160 | 9 | | | | 194 | 212 | | | | 318 | 335 | 357 | | |
| 1200 | 28,0 | 43 | 133 | 146 | 160 | | | 207 | 231 | 257 | | | | |
| | 31,5 | 38 | 131 | 144 | 158 | 163 | 179 | 220 | 245 | 272 | 256 | 270 | 288 | |
| | 35,5 | 34 | 142 | 157 | 172 | 180 | 196 | 234 | 261 | 290 | 294 | 310 | 330 | |
| | 40,0 | 30 | 142 | 156 | 171 | 191 | 209 | 210 | 234 | 261 | 303 | 319 | 341 | |
| | 45,0 | 27 | 132 | 145 | 159 | 191 | 209 | 221 | 246 | 274 | 260 | 273 | 292 | |
| | 50,0 | 24 | 143 | 158 | 173 | 181 | 197 | 235 | 262 | 292 | 298 | 314 | 335 | |
| | 56,0 | 21 | 142 | 157 | 172 | 192 | 210 | 219 | 244 | 272 | 313 | 330 | 352 | |
| | 63,0 | 19 | 132 | 146 | 160 | 192 | 209 | 222 | 248 | 276 | 271 | 285 | 304 | |
| | 71,0 | 17 | 144 | 158 | 173 | 181 | 198 | 237 | 263 | 293 | 300 | 316 | 337 | |
| | 80,0 | 15 | 143 | 158 | 173 | 193 | 211 | 223 | 248 | 276 | 313 | 330 | 352 | |
| | 90,0 | 13 | 132 | 146 | 160 | 177 | 194 | 223 | 248 | 276 | 295 | 311 | 331 | |
| | 100 | 12 | 144 | 159 | 174 | 182 | 199 | 237 | 264 | 294 | 301 | 317 | 338 | |
| | 112 | 11 | 143 | 158 | 173 | 193 | 211 | 223 | 249 | 277 | 318 | 335 | 357 | |
| | 125 | 10 | 133 | 146 | 160 | 178 | 195 | 223 | 249 | 277 | 297 | 313 | 334 | |
| | 140 | 9 | 144 | 159 | 174 | 182 | 199 | 238 | 265 | 295 | 302 | 318 | 339 | |
| 160 | 8 | | | | 194 | 212 | | | | 318 | 335 | 357 | | |

Type VP3 Parallel Shaft

Power Ratings – kW/Triple Reduction

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 | |
| 1000 | 28,0 | 36 | | | | | | | | | | | | | | | | 330 | 363 | 390 | |
| | 31,5 | 32 | 27 | 40 | 57 | 65 | 82 | 93 | 105 | 116 | 152 | 170 | 194 | 198 | 227 | 259 | 286 | 314 | 338 | 390 | |
| | 35,5 | 28 | 28 | 38 | 57 | 65 | 82 | 94 | 106 | 117 | 139 | 156 | 178 | 191 | 218 | 248 | 271 | 298 | 320 | 367 | |
| | 40,0 | 25 | 24 | 34 | 53 | 65 | 82 | 85 | 96 | 106 | 122 | 136 | 155 | 176 | 201 | 229 | 239 | 262 | 282 | 341 | |
| | 45,0 | 22 | 20 | 29 | 42 | 53 | 66 | 69 | 78 | 86 | 111 | 124 | 141 | 143 | 163 | 186 | 203 | 223 | 240 | 294 | |
| | 50,0 | 20 | 20 | 27 | 42 | 50 | 63 | 70 | 79 | 87 | 97 | 109 | 124 | 137 | 156 | 178 | 192 | 211 | 228 | 261 | |
| | 56,0 | 18 | 17 | 24 | 39 | 47 | 59 | 63 | 71 | 79 | 85 | 95 | 108 | 124 | 142 | 162 | 173 | 190 | 205 | 243 | |
| | 63,0 | 16 | 14 | 20 | 30 | 36 | 45 | 48 | 55 | 60 | 80 | 89 | 102 | 101 | 116 | 132 | 147 | 162 | 174 | 212 | |
| | 71,0 | 14 | 14 | 19 | 30 | 34 | 43 | 49 | 55 | 61 | 70 | 78 | 90 | 97 | 111 | 126 | 139 | 153 | 165 | 189 | |
| | 80,0 | 13 | 12 | 16 | 28 | 32 | 40 | 44 | 50 | 55 | 61 | 68 | 78 | 88 | 101 | 115 | 124 | 136 | 146 | 176 | |
| | 90,0 | 11 | 9 | 15 | 24 | 26 | 33 | 35 | 39 | 43 | 55 | 62 | 70 | 74 | 84 | 96 | 105 | 116 | 124 | 152 | |
| | 100 | 10 | 9 | 14 | 22 | 24 | 30 | 34 | 39 | 43 | 51 | 57 | 65 | 70 | 80 | 91 | 100 | 109 | 118 | 135 | |
| | 112 | 9 | 9 | 12 | 20 | 23 | 29 | 31 | 35 | 39 | 45 | 50 | 57 | 63 | 72 | 83 | 87 | 95 | 102 | 125 | |
| | 125 | 8 | 7 | 11 | 16 | 19 | 24 | 26 | 29 | 32 | 39 | 44 | 50 | 52 | 60 | 68 | 74 | 81 | 87 | 106 | |
| 140 | 7 | 7 | 10 | 15 | 18 | 22 | 25 | 29 | 32 | 37 | 41 | 47 | 50 | 57 | 65 | 70 | 77 | 82 | 95 | | |
| 160 | 6 | 6 | 9 | 15 | 17 | 21 | 23 | 26 | 29 | 32 | 36 | 41 | 45 | 51 | 59 | | | | 88 | | |
| 900 | 28,0 | 32 | | | | | | | | | | | | | | | | 300 | 330 | 355 | |
| | 31,5 | 29 | 25 | 36 | 51 | 59 | 74 | 84 | 94 | 104 | 139 | 155 | 177 | 179 | 204 | 233 | 257 | 283 | 305 | 355 | |
| | 35,5 | 25 | 25 | 34 | 51 | 59 | 74 | 85 | 96 | 106 | 126 | 141 | 160 | 172 | 196 | 224 | 244 | 268 | 289 | 331 | |
| | 40,0 | 23 | 22 | 31 | 48 | 59 | 74 | 76 | 86 | 95 | 110 | 123 | 140 | 158 | 181 | 206 | 215 | 236 | 254 | 308 | |
| | 45,0 | 20 | 18 | 26 | 38 | 47 | 59 | 62 | 70 | 78 | 100 | 112 | 127 | 128 | 147 | 167 | 183 | 201 | 216 | 263 | |
| | 50,0 | 18 | 18 | 25 | 38 | 45 | 57 | 63 | 71 | 79 | 88 | 98 | 112 | 123 | 141 | 160 | 173 | 191 | 205 | 235 | |
| | 56,0 | 16 | 16 | 22 | 35 | 43 | 53 | 57 | 64 | 71 | 76 | 86 | 98 | 112 | 128 | 146 | 156 | 171 | 184 | 218 | |
| | 63,0 | 14 | 13 | 18 | 27 | 32 | 41 | 44 | 49 | 54 | 72 | 80 | 92 | 91 | 104 | 118 | 133 | 146 | 157 | 190 | |
| | 71,0 | 13 | 12 | 17 | 27 | 31 | 39 | 44 | 50 | 55 | 63 | 71 | 81 | 87 | 100 | 114 | 126 | 138 | 148 | 170 | |
| | 80,0 | 11 | 11 | 15 | 26 | 29 | 36 | 40 | 45 | 49 | 55 | 62 | 70 | 79 | 91 | 104 | 111 | 122 | 132 | 158 | |
| | 90,0 | 10 | 8 | 14 | 21 | 24 | 29 | 31 | 35 | 39 | 50 | 55 | 63 | 66 | 76 | 86 | 95 | 104 | 112 | 137 | |
| | 100 | 9 | 8 | 12 | 19 | 22 | 27 | 31 | 35 | 39 | 46 | 52 | 59 | 63 | 72 | 82 | 90 | 99 | 106 | 122 | |
| | 112 | 8 | 8 | 11 | 18 | 21 | 26 | 28 | 32 | 35 | 40 | 45 | 51 | 57 | 65 | 74 | 78 | 86 | 92 | 113 | |
| | 125 | 7 | 6 | 10 | 14 | 17 | 22 | 23 | 26 | 29 | 35 | 40 | 45 | 47 | 54 | 61 | 66 | 73 | 78 | 96 | |
| 140 | 6 | 6 | 9 | 14 | 16 | 20 | 23 | 26 | 29 | 33 | 37 | 42 | 45 | 51 | 58 | 63 | 69 | 74 | 85 | | |
| 160 | 6 | 6 | 8 | 13 | 15 | 19 | 21 | 23 | 26 | 29 | 32 | 37 | 40 | 46 | 53 | | | | 79 | | |

Type VP3 Parallel Shaft

Torque Ratings – kNm/Triple Reduction

(kNm AT LOW SPEED SHAFT)

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1000 | 28,0 | 36 | | | | | | | | | | | | | | | 93,0 | 102,2 | 110,0 | |
| | 31,5 | 32 | 8,44 | 11,9 | 17,7 | 19,7 | 24,6 | 28,2 | 31,8 | 35,1 | 45,8 | 51,3 | 58,5 | 60,8 | 69,5 | 79,2 | 89,1 | 97,9 | 105,4 | 119,8 |
| | 35,5 | 28 | 9,28 | 12,7 | 19,9 | 22,1 | 27,7 | 31,9 | 36,0 | 39,8 | 48,6 | 54,4 | 62,0 | 64,3 | 73,6 | 83,8 | 96,5 | 106,1 | 114,1 | 122,6 |
| | 40,0 | 25 | 9,14 | 13,0 | 20,2 | 23,9 | 29,9 | 33,1 | 37,3 | 41,2 | 45,9 | 51,3 | 58,5 | 65,7 | 75,1 | 85,6 | 95,0 | 104,5 | 112,4 | 130,8 |
| | 45,0 | 22 | 8,68 | 12,4 | 18,2 | 22,4 | 28,0 | 29,1 | 32,8 | 36,2 | 48,0 | 53,6 | 61,2 | 62,6 | 71,7 | 81,6 | 89,4 | 98,3 | 105,8 | 127,4 |
| | 50,0 | 20 | 9,30 | 13,2 | 20,5 | 23,9 | 30,0 | 32,9 | 37,1 | 41,0 | 48,8 | 54,5 | 62,2 | 66,2 | 75,7 | 86,2 | 96,8 | 106,5 | 114,6 | 123,1 |
| | 56,0 | 18 | 9,16 | 13,0 | 20,7 | 24,3 | 30,5 | 34,0 | 38,4 | 42,4 | 46,0 | 51,5 | 58,7 | 66,5 | 76,1 | 86,7 | 95,3 | 104,8 | 112,8 | 131,2 |
| | 63,0 | 16 | 9,37 | 12,4 | 18,2 | 22,4 | 28,0 | 29,1 | 32,8 | 36,2 | 48,1 | 53,8 | 61,3 | 62,6 | 71,6 | 81,6 | 89,7 | 98,6 | 106,1 | 127,0 |
| | 71,0 | 14 | 9,31 | 13,2 | 20,5 | 24,0 | 30,0 | 32,9 | 37,1 | 41,0 | 48,9 | 54,7 | 62,4 | 66,1 | 75,7 | 86,2 | 97,1 | 106,7 | 114,8 | 123,4 |
| | 80,0 | 13 | 9,17 | 13,0 | 20,7 | 24,4 | 30,5 | 34,0 | 38,4 | 42,4 | 46,1 | 51,6 | 58,8 | 66,6 | 76,2 | 86,8 | 95,5 | 105,0 | 113,0 | 131,6 |
| | 90,0 | 11 | 8,21 | 13,3 | 20,5 | 23,4 | 29,3 | 29,8 | 33,7 | 37,2 | 45,3 | 50,7 | 57,8 | 63,6 | 72,8 | 82,9 | 89,9 | 98,8 | 106,3 | 128,0 |
| | 100 | 10 | 8,97 | 13,2 | 20,5 | 23,7 | 29,7 | 33,1 | 37,3 | 41,2 | 48,9 | 54,7 | 62,4 | 66,6 | 76,2 | 86,8 | 97,3 | 106,9 | 115,0 | 123,7 |
| | 112 | 9 | 9,18 | 13,0 | 21,0 | 24,4 | 30,5 | 34,4 | 38,9 | 42,9 | 46,1 | 51,6 | 58,9 | 66,7 | 76,4 | 87,0 | 95,7 | 105,2 | 113,2 | 131,8 |
| | 125 | 8 | 8,22 | 13,3 | 19,5 | 23,5 | 29,4 | 29,8 | 33,7 | 37,2 | 45,5 | 50,9 | 58,0 | 63,6 | 72,8 | 82,9 | 90,0 | 98,9 | 106,5 | 128,2 |
| | 140 | 7 | 8,99 | 13,2 | 20,4 | 23,8 | 29,8 | 33,1 | 37,4 | 41,3 | 49,0 | 54,8 | 62,5 | 66,7 | 76,3 | 86,9 | 97,4 | 107,1 | 115,2 | 123,9 |
| | 160 | 6 | 9,18 | 13,1 | 21,0 | 24,4 | 30,6 | 34,5 | 38,9 | 43,0 | 46,2 | 51,7 | 59,0 | 66,8 | 76,4 | 87,1 | | | | |
| 900 | 28,0 | 32 | | | | | | | | | | | | | | | 93,9 | 103,2 | 111,1 | |
| | 31,5 | 29 | 8,44 | 11,9 | 17,7 | 19,7 | 24,7 | 28,2 | 31,8 | 35,1 | 46,5 | 52,0 | 59,3 | 60,8 | 69,5 | 79,2 | 89,2 | 98,1 | 105,5 | 121,0 |
| | 35,5 | 25 | 9,29 | 12,7 | 19,9 | 22,2 | 27,8 | 31,9 | 36,0 | 39,8 | 48,7 | 54,4 | 62,1 | 64,3 | 73,6 | 83,8 | 96,6 | 106,2 | 114,3 | 122,8 |
| | 40,0 | 23 | 9,15 | 13,0 | 20,2 | 24,0 | 30,0 | 33,1 | 37,3 | 41,2 | 45,9 | 51,4 | 58,6 | 65,7 | 75,1 | 85,6 | 95,1 | 104,6 | 112,5 | 130,9 |
| | 45,0 | 20 | 8,68 | 12,4 | 18,2 | 22,4 | 28,0 | 29,1 | 32,8 | 36,2 | 48,0 | 53,7 | 61,2 | 62,6 | 71,7 | 81,6 | 89,5 | 98,4 | 105,9 | 127,0 |
| | 50,0 | 18 | 9,30 | 13,2 | 20,5 | 23,9 | 30,0 | 32,9 | 37,1 | 41,0 | 48,8 | 54,6 | 62,3 | 66,2 | 75,7 | 86,2 | 96,9 | 106,6 | 114,7 | 123,2 |
| | 56,0 | 16 | 9,16 | 13,0 | 20,7 | 24,3 | 30,5 | 34,0 | 38,4 | 42,4 | 46,0 | 51,5 | 58,7 | 66,5 | 76,1 | 86,7 | 95,4 | 104,9 | 112,8 | 131,4 |
| | 63,0 | 14 | 8,68 | 12,4 | 18,2 | 22,4 | 28,0 | 29,1 | 32,8 | 36,2 | 48,1 | 53,8 | 61,4 | 62,6 | 71,6 | 81,6 | 89,7 | 98,7 | 106,2 | 127,0 |
| | 71,0 | 13 | 9,31 | 13,2 | 20,5 | 24,0 | 30,0 | 32,9 | 37,1 | 41,0 | 48,9 | 54,7 | 62,4 | 66,1 | 75,7 | 86,2 | 97,1 | 106,8 | 114,9 | 123,5 |
| | 80,0 | 11 | 9,17 | 13,0 | 20,7 | 24,4 | 30,5 | 34,0 | 38,4 | 42,4 | 46,1 | 51,6 | 58,8 | 66,7 | 76,3 | 86,9 | 95,6 | 105,1 | 113,1 | 131,6 |
| | 90,0 | 10 | 8,21 | 13,3 | 20,5 | 23,4 | 29,3 | 29,8 | 33,7 | 37,2 | 45,4 | 50,8 | 57,9 | 63,6 | 72,8 | 82,9 | 89,9 | 98,8 | 106,4 | 128,1 |
| | 100 | 9 | 8,98 | 13,2 | 20,5 | 23,7 | 29,7 | 33,1 | 37,3 | 41,2 | 48,9 | 54,8 | 62,5 | 66,7 | 76,3 | 86,9 | 97,3 | 107,0 | 115,1 | 123,8 |
| | 112 | 8 | 9,18 | 13,1 | 21,0 | 24,4 | 30,6 | 34,4 | 38,9 | 42,9 | 46,2 | 51,6 | 58,9 | 66,8 | 76,4 | 87,0 | 95,7 | 105,2 | 113,2 | 131,8 |
| | 125 | 7 | 8,22 | 13,3 | 19,5 | 23,5 | 29,4 | 29,8 | 33,7 | 37,2 | 45,5 | 50,9 | 58,1 | 63,6 | 72,8 | 82,9 | 90,0 | 99,0 | 106,5 | 128,3 |
| | 140 | 6 | 8,99 | 13,3 | 20,4 | 23,8 | 29,8 | 33,1 | 37,4 | 41,3 | 49,0 | 54,8 | 62,5 | 66,7 | 76,3 | 87,0 | 97,4 | 107,1 | 115,2 | 123,9 |
| | 160 | 6 | 9,18 | 13,1 | 21,0 | 24,4 | 30,6 | 34,5 | 38,9 | 43,0 | 46,2 | 51,7 | 59,0 | 66,8 | 76,5 | 87,1 | | | | |

Type VP3 Parallel Shaft

Power Ratings – kW/Triple Reduction

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1000 | 28,0 | 36 | 497 | 549 | 601 | | | 796 | 887 | 987 | | | |
| | 31,5 | 32 | 428 | 472 | 517 | 550 | 601 | 730 | 813 | 905 | 879 | 925 | 987 |
| | 35,5 | 28 | 426 | 470 | 514 | 534 | 584 | 711 | 792 | 881 | 879 | 925 | 987 |
| | 40,0 | 25 | 367 | 405 | 443 | 521 | 570 | 542 | 604 | 672 | 826 | 869 | 927 |
| | 45,0 | 22 | 301 | 333 | 364 | 443 | 485 | 497 | 554 | 616 | 599 | 630 | 672 |
| | 50,0 | 20 | 300 | 331 | 362 | 376 | 411 | 484 | 539 | 600 | 599 | 630 | 672 |
| | 56,0 | 18 | 256 | 283 | 310 | 367 | 401 | 395 | 440 | 489 | 577 | 608 | 648 |
| | 63,0 | 16 | 210 | 232 | 254 | 310 | 338 | 348 | 388 | 432 | 436 | 459 | 489 |
| | 71,0 | 14 | 209 | 231 | 253 | 263 | 287 | 339 | 377 | 420 | 422 | 444 | 473 |
| | 80,0 | 13 | 182 | 201 | 220 | 256 | 280 | 280 | 312 | 347 | 403 | 424 | 452 |
| | 90,0 | 11 | 149 | 165 | 181 | 203 | 222 | 258 | 287 | 319 | 333 | 351 | 374 |
| | 100 | 10 | 148 | 164 | 179 | 186 | 204 | 251 | 279 | 311 | 312 | 329 | 351 |
| | 112 | 9 | 133 | 147 | 161 | 182 | 199 | 201 | 224 | 249 | 302 | 318 | 339 |
| | 125 | 8 | 109 | 120 | 132 | 149 | 163 | 185 | 206 | 229 | 240 | 253 | 270 |
| | 140 | 7 | 108 | 120 | 131 | 136 | 149 | 180 | 201 | 223 | 224 | 236 | 252 |
| | 160 | 6 | | | | 133 | 145 | | | | 216 | 228 | 243 |
| 900 | 28,0 | 32 | 449 | 495 | 542 | | | 724 | 806 | 897 | | | |
| | 31,5 | 29 | 386 | 426 | 466 | 496 | 542 | 658 | 733 | 816 | 799 | 841 | 897 |
| | 35,5 | 25 | 384 | 423 | 464 | 481 | 526 | 641 | 714 | 795 | 797 | 839 | 895 |
| | 40,0 | 23 | 330 | 365 | 399 | 470 | 514 | 488 | 543 | 605 | 743 | 782 | 834 |
| | 45,0 | 20 | 272 | 300 | 328 | 400 | 437 | 448 | 499 | 555 | 539 | 567 | 605 |
| | 50,0 | 18 | 270 | 298 | 326 | 339 | 370 | 436 | 486 | 541 | 539 | 567 | 605 |
| | 56,0 | 16 | 231 | 255 | 279 | 331 | 361 | 355 | 396 | 440 | 520 | 547 | 583 |
| | 63,0 | 14 | 189 | 209 | 229 | 279 | 305 | 314 | 349 | 389 | 392 | 413 | 440 |
| | 71,0 | 13 | 188 | 208 | 228 | 236 | 258 | 305 | 340 | 378 | 380 | 400 | 427 |
| | 80,0 | 11 | 164 | 181 | 198 | 231 | 252 | 252 | 281 | 312 | 362 | 382 | 407 |
| | 90,0 | 10 | 135 | 148 | 163 | 183 | 200 | 232 | 259 | 288 | 301 | 316 | 337 |
| | 100 | 9 | 134 | 148 | 162 | 168 | 184 | 226 | 252 | 280 | 281 | 296 | 316 |
| | 112 | 8 | 120 | 132 | 145 | 164 | 179 | 181 | 202 | 224 | 272 | 286 | 305 |
| | 125 | 7 | 98 | 108 | 119 | 134 | 147 | 167 | 186 | 207 | 217 | 228 | 243 |
| | 140 | 6 | 98 | 108 | 118 | 123 | 134 | 162 | 181 | 201 | 202 | 213 | 227 |
| | 160 | 6 | | | | 120 | 131 | | | | 195 | 205 | 219 |

Type VP3 Parallel Shaft

Torque Ratings – kNm/Triple Reduction

(kNm AT LOW SPEED SHAFT)

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1000 | 28,0 | 36 | 135 | 149 | 163 | | | 209 | 233 | 259 | | | |
| | 31,5 | 32 | 131 | 145 | 159 | 166 | 182 | 220 | 246 | 273 | 258 | 272 | 290 |
| | 35,5 | 28 | 143 | 157 | 172 | 180 | 197 | 235 | 261 | 291 | 296 | 312 | 333 |
| | 40,0 | 25 | 142 | 157 | 172 | 192 | 210 | 210 | 234 | 261 | 303 | 319 | 341 |
| | 45,0 | 22 | 132 | 146 | 159 | 191 | 209 | 222 | 247 | 275 | 260 | 273 | 292 |
| | 50,0 | 20 | 143 | 158 | 173 | 181 | 198 | 236 | 263 | 293 | 298 | 314 | 335 |
| | 56,0 | 18 | 143 | 157 | 172 | 193 | 211 | 219 | 244 | 272 | 313 | 330 | 352 |
| | 63,0 | 16 | 132 | 146 | 160 | 192 | 210 | 223 | 248 | 276 | 271 | 285 | 304 |
| | 71,0 | 14 | 144 | 159 | 174 | 182 | 199 | 237 | 264 | 294 | 301 | 317 | 338 |
| | 80,0 | 13 | 143 | 158 | 173 | 193 | 211 | 223 | 248 | 277 | 313 | 330 | 352 |
| | 90,0 | 11 | 133 | 146 | 160 | 178 | 195 | 223 | 249 | 277 | 296 | 312 | 333 |
| | 100 | 10 | 144 | 159 | 174 | 182 | 199 | 237 | 264 | 294 | 302 | 318 | 339 |
| | 112 | 9 | 143 | 158 | 173 | 194 | 212 | 224 | 249 | 277 | 318 | 335 | 357 |
| | 125 | 8 | 133 | 147 | 161 | 179 | 195 | 224 | 249 | 277 | 298 | 314 | 335 |
| | 140 | 7 | 144 | 159 | 174 | 182 | 199 | 238 | 265 | 295 | 302 | 318 | 339 |
| | 160 | 6 | | | | 194 | 212 | | | | 318 | 335 | 357 |
| 900 | 28,0 | 32 | 135 | 149 | 164 | | | 211 | 235 | 262 | | | |
| | 31,5 | 29 | 131 | 145 | 159 | 167 | 182 | 221 | 246 | 274 | 261 | 275 | 293 |
| | 35,5 | 25 | 143 | 158 | 173 | 180 | 197 | 235 | 262 | 292 | 299 | 314 | 335 |
| | 40,0 | 23 | 142 | 157 | 172 | 192 | 210 | 210 | 234 | 261 | 303 | 319 | 341 |
| | 45,0 | 20 | 132 | 146 | 160 | 191 | 209 | 222 | 247 | 275 | 260 | 273 | 292 |
| | 50,0 | 18 | 143 | 158 | 173 | 181 | 198 | 236 | 263 | 293 | 298 | 314 | 335 |
| | 56,0 | 16 | 143 | 158 | 173 | 193 | 211 | 219 | 244 | 272 | 313 | 330 | 352 |
| | 63,0 | 14 | 132 | 146 | 160 | 192 | 210 | 223 | 248 | 276 | 271 | 285 | 304 |
| | 71,0 | 13 | 144 | 159 | 174 | 182 | 199 | 237 | 264 | 294 | 301 | 317 | 338 |
| | 80,0 | 11 | 143 | 158 | 173 | 193 | 211 | 223 | 249 | 277 | 313 | 330 | 352 |
| | 90,0 | 10 | 133 | 146 | 160 | 178 | 195 | 223 | 249 | 277 | 297 | 313 | 334 |
| | 100 | 9 | 144 | 159 | 174 | 182 | 199 | 238 | 265 | 295 | 302 | 318 | 339 |
| | 112 | 8 | 143 | 158 | 173 | 194 | 212 | 224 | 249 | 277 | 318 | 335 | 357 |
| | 125 | 7 | 133 | 147 | 161 | 179 | 196 | 224 | 249 | 277 | 299 | 315 | 335 |
| | 140 | 6 | 144 | 159 | 174 | 182 | 199 | 238 | 265 | 295 | 302 | 318 | 340 |
| | 160 | 6 | | | | 194 | 212 | | | | 318 | 335 | 357 |

Type VP1 Parallel Shaft

Basic Thermal Ratings [★] – kW/Single Reduction Maximum 93°C Sump Temperature[†]

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | | |
|---------|-----------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 | |
| 1800 | 1,25 | None | 188 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 1,40 | None | 191 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 1,60 | None | 191 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 1,80 | None | 188 | 188 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 2,00 | None | 183 | 185 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 2,24 | None | 175 | 178 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 2,50 | None | 166 | 173 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 2,80 | None | 158 | 165 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 3,15 | None | 149 | 156 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 3,55 | None | 112 | 145 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 4,00 | None | 91 | 136 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 4,50 | None | 86 | 101 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 5,00 | None | 93 | 112 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 1500 | 1,25 | None | 199 | 197 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 1,40 | None | 200 | 201 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 1,60 | None | 197 | 201 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 1,80 | None | 192 | 197 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 2,00 | None | 184 | 192 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 2,24 | None | 176 | 183 | 222 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 2,50 | None | 165 | 175 | 211 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 2,80 | None | 134 | 166 | 198 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 3,15 | None | 129 | 156 | 183 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 3,55 | None | 119 | 119 | 168 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 4,00 | None | 93 | 114 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 4,50 | None | 87 | 107 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 5,00 | None | 92 | 114 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

[★] Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

[†] Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP1 Parallel Shaft

Basic Thermal Ratings ★ – kW/Single Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | |
|---------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|------|-----|-----|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 | |
| 1800 | 1,25 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 1,40 | Electric Fan | * | * | * | * | * | * | * | * | * | * | * | * |
| | | None | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 1,60 | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Electric Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 1,80 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 2,00 | Electric Fan | * | * | * | * | * | * | * | * | * | * | * | * |
| | | None | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 2,24 | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Electric Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 2,50 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 2,80 | Electric Fan | 1554 | 1569 | 1585 | * | * | * | * | * | * | * | * | * |
| | | None | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 3,15 | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Electric Fan | 1611 | 1627 | 1643 | * | * | * | * | * | * | * | * | * | |
| 3,55 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 4,00 | Electric Fan | 1630 | 1646 | 1663 | * | * | * | * | * | * | * | * | * | |
| | None | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 4,50 | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Electric Fan | 1428 | 1442 | 1456 | * | * | * | * | * | * | * | * | * | |
| 5,00 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 5,00 | Electric Fan | 1497 | 1512 | 1527 | 1445 | 1474 | * | * | * | * | * | * | * | |
| | None | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 5,00 | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Electric Fan | 1611 | 1627 | 1643 | 1382 | 1410 | 1938 | 1957 | 1976 | * | * | * | * | |
| 1500 | 1,25 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 1,40 | Electric Fan | * | * | * | * | * | * | * | * | * | * | * | * |
| | | None | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 1,60 | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Electric Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 1,80 | None | 2051 | 2071 | 2092 | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * | * |
| | 2,00 | Electric Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | None | 2039 | 2059 | 2080 | * | * | * | * | * | * | * | * | * |
| | 2,24 | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Electric Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 2,50 | None | 2087 | 2108 | 2129 | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * | * |
| | 2,80 | Electric Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | None | 2003 | 2023 | 2043 | * | * | * | * | * | * | * | * | * |
| 3,15 | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Electric Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 3,55 | None | 1921 | 1940 | 1959 | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * | * | |
| 4,00 | Electric Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | None | 1603 | 1620 | 1636 | 1490 | 1520 | 2008 | 2028 | 2048 | * | * | * | * | |
| 4,50 | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Electric Fan | N/A | 0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 5,00 | None | 1697 | 1714 | 1731 | 1482 | 1512 | 1961 | 1981 | 2000 | * | * | * | * | |
| | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * | * | |
| 5,00 | Electric Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | None | 1580 | 1595 | 1611 | 1611 | 1643 | 1868 | 1886 | 1905 | 1681 | 1698 | 1715 | * | |
| 5,00 | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Electric Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 5,00 | None | 1669 | 1686 | 1703 | 1511 | 1541 | 2171 | 2193 | 2214 | 1636 | 1653 | 1669 | * | |
| | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * | * | |
| 5,00 | Electric Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | None | 1669 | 1686 | 1703 | 1511 | 1541 | 2171 | 2193 | 2214 | 1636 | 1653 | 1669 | * | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP1 Parallel Shaft

Basic Thermal Ratings [★] – kW/Single Reduction Maximum 93°C Sump Temperature[†]

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|---------|--------------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1200 | 1,25 | None | 204 | 210 | 267 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 1,40 | None | 202 | 210 | 267 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Electric Fan | 324 | 392 | 487 | 429 | 438 | 549 | 554 | 560 | 1981 | 2000 | 2020 | 1150 | 1162 | 1173 | 2068 | 2089 | 2110 | 1776 |
| | 1,60 | None | 196 | 206 | 257 | N/A | N/A | N/A | N/A | N/A | 530 | 535 | 540 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Electric Fan | 310 | 378 | 462 | 411 | 419 | 535 | 540 | 545 | 1862 | 1881 | 1900 | 1117 | 1128 | 1139 | 2003 | 2023 | 2043 | 1774 |
| | 1,80 | None | 190 | 199 | 247 | N/A | N/A | N/A | N/A | N/A | 508 | 513 | 518 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Electric Fan | 298 | 363 | 444 | 395 | 402 | 518 | 523 | 528 | 1748 | 1765 | 1783 | 1055 | 1066 | 1076 | 1945 | 1965 | 1984 | 1694 |
| | 2,00 | None | 162 | 193 | 237 | N/A | N/A | N/A | N/A | N/A | 428 | 432 | 436 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Electric Fan | 263 | 351 | 425 | 366 | 373 | 456 | 460 | 465 | 1492 | 1507 | 1522 | 1018 | 1028 | 1038 | 1845 | 1863 | 1882 | 1646 |
| | 2,24 | None | 155 | 182 | 219 | N/A | N/A | N/A | N/A | N/A | 413 | 417 | 421 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Electric Fan | 251 | 330 | 393 | 384 | 392 | 432 | 436 | 440 | 1424 | 1438 | 1452 | 969 | 978 | 988 | 1768 | 1786 | 1803 | 1582 |
| | 2,50 | None | 147 | 148 | 206 | N/A | N/A | N/A | N/A | N/A | 387 | 391 | 395 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Electric Fan | 237 | 282 | 370 | 359 | 366 | 436 | 440 | 444 | 1314 | 1327 | 1340 | 914 | 923 | 932 | 1683 | 1700 | 1717 | 1480 |
| | 2,80 | None | 140 | 142 | 193 | N/A | N/A | N/A | N/A | N/A | 367 | 371 | 374 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Electric Fan | 224 | 269 | 345 | 314 | 320 | 373 | 377 | 381 | 1235 | 1247 | 1260 | 854 | 862 | 871 | 1562 | 1577 | 1593 | 1424 |
| | 3,15 | None | 133 | 135 | 144 | N/A | N/A | N/A | N/A | N/A | 338 | 341 | 345 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Electric Fan | 212 | 254 | 278 | 285 | 290 | 349 | 352 | 356 | 1133 | 1145 | 1156 | 788 | 796 | 804 | 1439 | 1453 | 1467 | 1306 |
| | 3,55 | None | 121 | 127 | 137 | N/A | N/A | N/A | N/A | N/A | 322 | 326 | 329 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Electric Fan | 192 | 237 | 260 | 238 | 243 | 321 | 325 | 328 | 1059 | 1070 | 1080 | 730 | 738 | 745 | 1231 | 1243 | 1255 | 1263 |
| 4,00 | None | 90 | 115 | 117 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | Electric Fan | 142 | 209 | 218 | 237 | 241 | 262 | 264 | 267 | 777 | 785 | 793 | 671 | 678 | 684 | 1080 | 1091 | 1101 | 1162 | |
| 4,50 | None | 83 | 106 | 122 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 462 | 467 | 471 | N/A | |
| | Electric Fan | 131 | 191 | 224 | 245 | 250 | 266 | 268 | 271 | 598 | 604 | 610 | 636 | 643 | 649 | 1164 | 1176 | 1187 | 1113 | |
| 5,00 | None | 88 | 111 | 117 | 110 | 113 | N/A | N/A | N/A | N/A | N/A | N/A | 320 | 323 | 326 | 475 | 480 | 485 | N/A | |
| | Electric Fan | 139 | 196 | 211 | 234 | 239 | 253 | 256 | 258 | 578 | 584 | 590 | 756 | 763 | 771 | 1179 | 1191 | 1203 | 1147 | |
| 1000 | 1,25 | None | 203 | 213 | 264 | N/A | N/A | N/A | N/A | 590 | 596 | 602 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | | Electric Fan | 318 | 388 | 472 | 423 | 431 | 556 | 562 | 568 | 1955 | 1974 | 1994 | 1200 | 1212 | 1224 | 2170 | 2192 | 2214 | 1949 |
| | 1,40 | None | 200 | 210 | 262 | N/A | N/A | N/A | N/A | N/A | 583 | 589 | 595 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Electric Fan | 313 | 381 | 467 | 413 | 421 | 549 | 555 | 560 | 1896 | 1915 | 1934 | 1182 | 1194 | 1206 | 2126 | 2147 | 2168 | 1900 |
| | 1,60 | None | 179 | 205 | 251 | N/A | N/A | N/A | N/A | N/A | 565 | 570 | 576 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Electric Fan | 286 | 369 | 444 | 399 | 407 | 529 | 534 | 540 | 1818 | 1837 | 1855 | 1132 | 1143 | 1155 | 2038 | 2059 | 2079 | 1866 |
| | 1,80 | None | 173 | 174 | 241 | N/A | N/A | N/A | N/A | N/A | 533 | 539 | 544 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Electric Fan | 275 | 327 | 427 | 382 | 389 | 510 | 515 | 520 | 1698 | 1715 | 1732 | 1061 | 1072 | 1083 | 1967 | 1987 | 2007 | 1765 |
| | 2,00 | None | 165 | 169 | 230 | N/A | N/A | N/A | N/A | N/A | 446 | 450 | 455 | N/A | N/A | N/A | 722 | 729 | 736 | N/A |
| | | Electric Fan | 263 | 316 | 406 | 352 | 359 | 446 | 450 | 455 | 1445 | 1459 | 1474 | 1014 | 1024 | 1034 | 1847 | 1866 | 1884 | 1691 |
| | 2,24 | None | 157 | 160 | 177 | N/A | N/A | N/A | N/A | N/A | 427 | 431 | 435 | N/A | N/A | N/A | 929 | 939 | 948 | N/A |
| | | Electric Fan | 249 | 299 | 335 | 373 | 376 | 420 | 424 | 428 | 1375 | 1389 | 1402 | 958 | 967 | 977 | 1759 | 1776 | 1794 | 1608 |
| | 2,50 | None | 148 | 154 | 170 | N/A | N/A | N/A | N/A | N/A | 395 | 398 | 402 | N/A | N/A | N/A | 660 | 667 | 674 | N/A |
| | | Electric Fan | 234 | 284 | 318 | 290 | 296 | 421 | 425 | 430 | 1263 | 1275 | 1288 | 897 | 906 | 915 | 1663 | 1680 | 1696 | 1486 |
| | 2,80 | None | 139 | 146 | 161 | N/A | N/A | N/A | N/A | N/A | 371 | 375 | 379 | N/A | N/A | N/A | 610 | 617 | 623 | N/A |
| | | Electric Fan | 220 | 268 | 300 | 258 | 263 | 359 | 363 | 366 | 1184 | 1196 | 1207 | 832 | 840 | 849 | 1532 | 1547 | 1563 | 1418 |
| | 3,15 | None | 131 | 137 | 152 | N/A | N/A | N/A | N/A | N/A | 339 | 343 | 346 | N/A | N/A | N/A | 560 | 566 | 571 | N/A |
| | | Electric Fan | 207 | 251 | 280 | 240 | 245 | 271 | 274 | 276 | 1083 | 1094 | 1105 | 763 | 770 | 778 | 1402 | 1416 | 1430 | 1286 |
| | 3,55 | None | 118 | 128 | 141 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 470 | 475 | 480 | N/A |
| | | Electric Fan | 186 | 233 | 258 | 246 | 250 | 260 | 262 | 265 | 837 | 846 | 854 | 702 | 709 | 716 | 1186 | 1198 | 1210 | 1231 |
| 4,00 | None | 86 | 112 | 117 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 407 | 411 | 415 | N/A | |
| | Electric Fan | 134 | 200 | 212 | 237 | 242 | 278 | 281 | 284 | 634 | 640 | 646 | 473 | 478 | 482 | 1036 | 1046 | 1057 | 1124 | |
| 4,50 | None | 79 | 102 | 120 | 116 | 119 | 130 | 131 | 133 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | Electric Fan | 124 | 181 | 216 | 242 | 247 | 277 | 280 | 283 | 618 | 625 | 631 | 456 | 460 | 465 | 841 | 850 | 858 | 1064 | |
| 5,00 | None | 84 | 106 | 114 | 112 | 114 | 123 | 124 | 126 | N/A | N/A | N/A | 203 | 205 | 207 | 283 | 286 | 289 | N/A | |
| | Electric Fan | 131 | 186 | 202 | 229 | 233 | 256 | 258 | 261 | 585 | 591 | 597 | 579 | 585 | 591 | 891 | 900 | 909 | 779 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP1 Parallel Shaft

Basic Thermal Ratings ★ – kW/Single Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | |
|--------------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|------|-----|-----|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 | |
| 1200 | 1,25 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Electric Fan | 2602 | 2628 | 2654 | * | * | * | * | * | * | * | * | * | |
| | 1,40 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Electric Fan | 2670 | 2697 | 2724 | * | * | * | * | * | * | * | * | * | |
| | 1,60 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Electric Fan | 2670 | 2697 | 2723 | 2057 | 2098 | * | * | * | * | * | * | * | |
| | 1,80 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Electric Fan | 2559 | 2584 | 2610 | 2046 | 2087 | * | * | * | * | * | * | * | |
| | 2,00 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Electric Fan | 2506 | 2531 | 2556 | 2028 | 2068 | * | * | * | * | * | * | * | |
| | 2,24 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| Shaft Fan | | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 2415 | 2440 | 2464 | 1957 | 1996 | 2520 | 2546 | 2571 | * | * | * | * | | |
| 2,50 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 2307 | 2330 | 2353 | 1910 | 1948 | 2479 | 2504 | 2529 | * | * | * | * | | |
| 2,80 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 2181 | 2203 | 2225 | 1842 | 1879 | 2410 | 2434 | 2458 | * | * | * | * | | |
| 3,15 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 2036 | 2057 | 2077 | 1785 | 1821 | 2309 | 2332 | 2355 | 2033 | 2053 | 2074 | * | | |
| 3,55 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 1657 | 1674 | 1690 | 1670 | 1703 | 2299 | 2322 | 2345 | 2080 | 2101 | 2121 | * | | |
| 4,00 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 1703 | 1720 | 1737 | 1562 | 1593 | 2123 | 2144 | 2166 | 2063 | 2084 | 2104 | * | | |
| 4,50 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 1573 | 1589 | 1605 | 1654 | 1687 | 1978 | 1998 | 2018 | 1940 | 1959 | 1978 | * | | |
| 5,00 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 1646 | 1662 | 1679 | 1534 | 1565 | 2233 | 2255 | 2277 | 1825 | 1844 | 1862 | * | | |
| 1000 | 1,25 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Electric Fan | 2928 | 2957 | 2986 | 2306 | 2352 | 2967 | 2996 | 3026 | * | * | * | * | |
| | 1,40 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Electric Fan | 2925 | 2954 | 2983 | 2434 | 2483 | 3103 | 3134 | 3165 | * | * | * | * | |
| | 1,60 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Electric Fan | 2849 | 2877 | 2906 | 2419 | 2467 | 3149 | 3180 | 3212 | * | * | * | * | |
| | 1,80 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Electric Fan | 2698 | 2725 | 2752 | 2355 | 2402 | 3014 | 3044 | 3074 | 2571 | 2597 | 2623 | * | |
| | 2,00 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Electric Fan | 2600 | 2626 | 2652 | 2280 | 2326 | 2983 | 3013 | 3043 | 2566 | 2592 | 2618 | * | |
| | 2,24 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| Shaft Fan | | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 2477 | 2501 | 2526 | 2144 | 2187 | 2824 | 2852 | 2880 | 2534 | 2559 | 2584 | * | | |
| 2,50 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 2339 | 2362 | 2385 | 2046 | 2087 | 2702 | 2729 | 2756 | 2488 | 2513 | 2537 | * | | |
| 2,80 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 2186 | 2208 | 2230 | 1932 | 1971 | 2559 | 2585 | 2610 | 2417 | 2441 | 2466 | * | | |
| 3,15 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 2021 | 2041 | 2061 | 1839 | 1876 | 2395 | 2419 | 2442 | 2320 | 2343 | 2366 | * | | |
| 3,55 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 1627 | 1643 | 1660 | 1690 | 1723 | 2341 | 2364 | 2388 | 2276 | 2299 | 2322 | * | | |
| 4,00 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 1652 | 1669 | 1685 | 1543 | 1574 | 2118 | 2139 | 2160 | 2170 | 2192 | 2213 | * | | |
| 4,50 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 1521 | 1536 | 1551 | 1618 | 1651 | 1957 | 1976 | 1996 | 1978 | 1998 | 2018 | * | | |
| 5,00 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 1584 | 1600 | 1616 | 1494 | 1524 | 2184 | 2206 | 2228 | 1839 | 1858 | 1876 | * | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP1 Parallel Shaft

Basic Thermal Ratings ★ – kW/Single Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | | | |
|------------|--------------|----------------------|------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|-----|---|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 | | |
| 900 | 1,25 | None | 191 | 212 | 260 | * | * | * | * | * | 601 | 607 | 613 | * | * | * | * | * | * | * | | |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | 1,40 | None | 187 | 209 | 258 | * | * | * | * | * | 589 | 595 | 601 | * | * | * | * | * | * | * | * | |
| | | Electric Fan | 303 | 384 | 461 | 415 | 424 | 552 | 558 | 564 | 1917 | 1936 | 1955 | 1199 | 1211 | 1223 | 2175 | 2196 | 2218 | 1981 | * | |
| | 1,60 | None | 180 | 184 | 245 | * | * | * | * | * | 569 | 574 | 580 | * | * | * | * | 805 | 813 | 821 | * | * |
| | | Electric Fan | 284 | 341 | 432 | 390 | 398 | 522 | 525 | 531 | 1775 | 1793 | 1811 | 1120 | 1132 | 1143 | 2021 | 2041 | 2061 | 1870 | N/A | |
| | 1,80 | None | 173 | 177 | 235 | * | * | * | * | * | 534 | 539 | 545 | * | * | * | * | 780 | 788 | 796 | * | * |
| | | Electric Fan | 273 | 327 | 415 | 373 | 379 | 500 | 505 | 510 | 1655 | 1671 | 1688 | 1047 | 1058 | 1068 | 1946 | 1965 | 1985 | 1762 | N/A | |
| | 2,00 | None | 165 | 172 | 195 | * | * | * | * | * | 445 | 449 | 454 | * | * | * | * | 737 | 744 | 751 | * | * |
| | | Electric Fan | 260 | 316 | 360 | 342 | 349 | 436 | 440 | 445 | 1406 | 1420 | 1434 | 996 | 1006 | 1016 | 1821 | 1839 | 1857 | 1680 | N/A | |
| | 2,24 | None | 156 | 162 | 182 | * | * | * | * | * | 425 | 429 | 433 | * | * | * | * | 703 | 710 | 717 | * | * |
| | | Electric Fan | 246 | 297 | 335 | 312 | 318 | 410 | 414 | 418 | 1336 | 1350 | 1363 | 939 | 948 | 958 | 1729 | 1747 | 1764 | 1592 | N/A | |
| | 2,50 | None | 146 | 154 | 173 | * | * | * | * | * | 391 | 395 | 399 | * | * | * | * | 666 | 673 | 680 | * | * |
| | | Electric Fan | 230 | 281 | 317 | 295 | 301 | 335 | 338 | 341 | 1225 | 1237 | 1250 | 877 | 886 | 895 | 1631 | 1647 | 1664 | 1466 | N/A | |
| | 2,80 | None | 137 | 145 | 163 | * | * | * | * | * | 367 | 370 | 374 | * | * | * | * | 612 | 618 | 625 | * | * |
| | | Electric Fan | 215 | 264 | 297 | 261 | 266 | 295 | 298 | 301 | 1147 | 1159 | 1170 | 811 | 819 | 828 | 1499 | 1514 | 1529 | 1394 | N/A | |
| | 3,15 | None | 129 | 136 | 152 | * | * | * | * | * | * | * | * | * | * | * | * | 559 | 564 | 570 | * | * |
| | | Electric Fan | 202 | 247 | 276 | 240 | 245 | 280 | 282 | 285 | 886 | 895 | 904 | 742 | 749 | 757 | 1368 | 1381 | 1395 | 1260 | N/A | |
| | 3,55 | None | 116 | 126 | 140 | * | * | * | * | * | 222 | 225 | 227 | * | * | * | * | 464 | 469 | 473 | * | * |
| | | Electric Fan | 182 | 228 | 253 | 244 | 249 | 264 | 267 | 269 | 853 | 862 | 870 | 511 | 516 | 521 | 1153 | 1164 | 1176 | 1201 | N/A | |
| 4,00 | None | 83 | 109 | 115 | 113 | 115 | 134 | 135 | 137 | 171 | 173 | 175 | * | * | * | * | * | * | * | * | * | |
| | Electric Fan | 130 | 194 | 206 | 233 | 238 | 279 | 282 | 285 | 637 | 644 | 650 | 502 | 507 | 512 | 785 | 793 | 801 | 1094 | N/A | | |
| 4,50 | None | 77 | 99 | 118 | 116 | 118 | 134 | 135 | 136 | 173 | 175 | 176 | * | * | * | * | 293 | 296 | 299 | * | * | |
| | Electric Fan | 120 | 175 | 210 | 237 | 242 | 277 | 280 | 283 | 615 | 621 | 627 | 478 | 482 | 487 | 881 | 890 | 899 | 759 | N/A | | |
| 5,00 | None | 81 | 103 | 111 | 110 | 112 | 124 | 125 | 127 | 169 | 170 | 172 | 224 | 226 | 228 | 321 | 324 | 328 | * | * | | |
| | Electric Fan | 126 | 179 | 196 | 224 | 228 | 253 | 255 | 258 | 578 | 584 | 589 | 594 | 600 | 606 | 919 | 929 | 938 | 834 | N/A | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP1 Parallel Shaft

Basic Thermal Ratings ★ – kW/Single Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | |
|--------------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|------|-----|-----|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 | |
| 900 | 1,25 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Electric Fan | 3003 | 3033 | 3063 | 2494 | 2544 | 3270 | 3303 | 3335 | 2707 | 2734 | 2762 | * | |
| | 1,40 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Electric Fan | 2974 | 3004 | 3034 | 2571 | 2622 | 3313 | 3346 | 3379 | 2846 | 2875 | 2903 | * | |
| | 1,60 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Electric Fan | 2872 | 2901 | 2930 | 2512 | 2562 | 3302 | 3335 | 3368 | 2906 | 2935 | 2964 | * | |
| | 1,80 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Electric Fan | 2708 | 2735 | 2762 | 2429 | 2478 | 3133 | 3164 | 3195 | 2895 | 2924 | 2953 | * | |
| | 2,00 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Electric Fan | 2596 | 2622 | 2648 | 2335 | 2382 | 3078 | 3109 | 3140 | 2838 | 2866 | 2895 | * | |
| | 2,24 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| Shaft Fan | | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 2462 | 2487 | 2512 | 2178 | 2221 | 2885 | 2914 | 2943 | 2728 | 2755 | 2783 | * | | |
| 2,50 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 2316 | 2339 | 2362 | 2062 | 2104 | 2737 | 2764 | 2791 | 2633 | 2659 | 2686 | * | | |
| 2,80 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 2157 | 2178 | 2200 | 1934 | 1973 | 2571 | 2596 | 2622 | 2518 | 2543 | 2569 | * | | |
| 3,15 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 1986 | 2006 | 2025 | 1830 | 1867 | 2386 | 2410 | 2434 | 2382 | 2406 | 2430 | * | | |
| 3,55 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 1593 | 1609 | 1625 | 1671 | 1704 | 2319 | 2342 | 2365 | 2308 | 2331 | 2354 | * | | |
| 4,00 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 1610 | 1626 | 1642 | 1513 | 1543 | 2083 | 2104 | 2125 | 2173 | 2194 | 2216 | * | | |
| 4,50 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 1480 | 1494 | 1509 | 1582 | 1613 | 1918 | 1938 | 1957 | 1960 | 1980 | 2000 | * | | |
| 5,00 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 1216 | 1228 | 1240 | 1458 | 1487 | 2134 | 2155 | 2177 | 1815 | 1833 | 1851 | * | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP1 Parallel Shaft

Basic Thermal Ratings [★] – kW/Single Reduction Maximum 82°C Sump Temperature[†]

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|---------|-----------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|------|------|------|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1800 | 1,25 | None | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Shaft Fan | 223 | 241 | * | * | * | * | * | * | * | 878 | 886 | 895 | * | * | * | * | * | * |
| | 1,40 | None | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Shaft Fan | 228 | 255 | * | * | * | * | * | * | * | 986 | 996 | 1006 | * | * | * | * | * | * |
| | 1,60 | None | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Shaft Fan | 231 | 262 | * | * | * | * | * | * | * | 1007 | 1017 | 1027 | * | * | * | * | * | * |
| | 1,80 | None | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Shaft Fan | 229 | 264 | 328 | * | * | * | * | * | * | 1023 | 1033 | 1044 | * | * | * | * | * | * |
| | 2,00 | None | 125 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Shaft Fan | 224 | 262 | 320 | * | * | * | * | * | * | 903 | 912 | 921 | * | * | * | * | * | * |
| | 2,24 | None | 121 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Shaft Fan | 216 | 253 | 304 | * | * | * | * | * | * | 903 | 912 | 922 | * | * | * | * | * | * |
| | 2,50 | None | 117 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Shaft Fan | 206 | 246 | 291 | * | * | * | * | * | * | 891 | 900 | 909 | * | * | * | * | * | * |
| | 2,80 | None | 113 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Shaft Fan | 196 | 236 | 277 | * | * | * | * | * | * | 873 | 882 | 890 | * | * | * | * | * | * |
| 3,15 | None | 144 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | Shaft Fan | 186 | 223 | 259 | * | * | * | * | * | * | 835 | 843 | 851 | * | * | * | * | * | * | * |
| 3,55 | None | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | Shaft Fan | 131 | 209 | 240 | 231 | 236 | * | * | * | * | 858 | 866 | 875 | * | * | * | * | * | * | * |
| 4,00 | None | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | Shaft Fan | 111 | 198 | 207 | 230 | 235 | * | * | * | * | 971 | 981 | 991 | * | * | * | * | * | * | * |
| 4,50 | None | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | Shaft Fan | 106 | 142 | 211 | 236 | 241 | 258 | 261 | 264 | 626 | 632 | 638 | * | * | * | * | * | * | * | * |
| 5,00 | None | 65 | 73 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | Shaft Fan | 116 | 157 | 137 | 223 | 227 | 239 | 241 | 243 | 589 | 595 | 601 | * | * | * | * | * | * | * | * |
| 1500 | 1,25 | None | 132 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | | Shaft Fan | 241 | 276 | 361 | * | * | * | * | * | * | 1284 | 1297 | 1310 | * | * | * | * | * | * |
| | 1,40 | None | 136 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Shaft Fan | 243 | 283 | 368 | * | * | * | * | * | * | 1323 | 1336 | 1349 | * | * | * | * | * | * |
| | 1,60 | None | 137 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Shaft Fan | 242 | 284 | 358 | * | * | * | * | * | * | 1306 | 1318 | 1331 | * | * | * | * | * | * |
| | 1,80 | None | 136 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Shaft Fan | 237 | 280 | 349 | * | * | * | * | * | * | 1268 | 1279 | 1291 | * | * | * | * | * | * |
| | 2,00 | None | 132 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Shaft Fan | 229 | 274 | 337 | 278 | 284 | * | * | * | * | 1095 | 1106 | 1117 | * | * | * | * | 981 | 991 | 1001 |
| | 2,24 | None | 127 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Shaft Fan | 219 | 262 | 316 | 298 | 304 | * | * | * | * | 1066 | 1076 | 1087 | * | * | * | * | 1003 | 1013 | 1023 |
| | 2,50 | None | 121 | 124 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Shaft Fan | 207 | 252 | 300 | 284 | 290 | * | * | * | * | 1012 | 1022 | 1032 | * | * | * | * | 1014 | 1024 | 1034 |
| | 2,80 | None | 84 | 119 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Shaft Fan | 159 | 239 | 282 | 251 | 256 | * | * | * | * | 969 | 979 | 988 | 567 | 572 | 578 | 1000 | 1010 | 1019 | N/A |
| 3,15 | None | 83 | 112 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | Shaft Fan | 155 | 225 | 263 | 232 | 237 | * | * | * | * | 905 | 914 | 924 | 550 | 555 | 561 | 971 | 980 | 990 | N/A |
| 3,55 | None | 81 | 70 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | Shaft Fan | 146 | 165 | 241 | 237 | 241 | 251 | 253 | 256 | 887 | 896 | 905 | 536 | 541 | 546 | 902 | 911 | 920 | 841 | N/A |
| 4,00 | None | 66 | 74 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | Shaft Fan | 116 | 161 | 147 | 230 | 234 | 269 | 271 | 274 | 657 | 663 | 670 | 514 | 519 | 525 | 813 | 821 | 829 | 827 | N/A |
| 4,50 | None | 63 | 73 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | Shaft Fan | 109 | 152 | 161 | 147 | 150 | 267 | 270 | 272 | 628 | 634 | 640 | 512 | 518 | 523 | 938 | 948 | 957 | 851 | N/A |
| 5,00 | None | 68 | 81 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | Shaft Fan | 117 | 162 | 159 | 155 | 158 | 124 | 125 | 126 | 586 | 592 | 598 | 624 | 630 | 636 | 965 | 975 | 985 | 907 | N/A |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP1 Parallel Shaft

Basic Thermal Ratings ★ – kW/Single Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | |
|---------|-----------------------------------|-----------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|-----|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 | |
| 1800 | 1,25 | None Shaft Fan Electric Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 1,40 | None Shaft Fan Electric Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 1,60 | None Shaft Fan Electric Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 1,80 | None Shaft Fan Electric Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 2,00 | None Shaft Fan Electric Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 2,24 | None Shaft Fan Electric Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 2,50 | None Shaft Fan Electric Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 2,80 | None Shaft Fan Electric Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 3,15 | None Shaft Fan Electric Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 3,55 | None Shaft Fan Electric Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 4,00 | None Shaft Fan Electric Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 4,50 | None Shaft Fan Electric Fan | N/A 942 | N/A 951 | N/A 960 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 5,00 | None Shaft Fan Electric Fan | N/A 1065 | N/A 1075 | N/A 1086 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 1500 | 1,25 | None Shaft Fan Electric Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 1,40 | None Shaft Fan Electric Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 1,60 | None Shaft Fan Electric Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 1,80 | None Shaft Fan Electric Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 2,00 | None Shaft Fan Electric Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 2,24 | None Shaft Fan Electric Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 2,50 | None Shaft Fan Electric Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 2,80 | None Shaft Fan Electric Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 3,15 | None Shaft Fan Electric Fan | N/A 1210 | N/A 1222 | N/A 1234 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 3,55 | None Shaft Fan Electric Fan | N/A 1067 | N/A 1078 | N/A 1089 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 4,00 | None Shaft Fan Electric Fan | N/A 1207 | N/A 1219 | N/A 1231 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 4,50 | None Shaft Fan Electric Fan | N/A 1138 | N/A 1149 | N/A 1161 | N/A 1092 | N/A 1114 | N/A 1175 | N/A 1187 | N/A 1198 | N/A 854 | N/A 862 | N/A 871 | N/A |
| 5,00 | None Shaft Fan Electric Fan | N/A 1231 | N/A 1243 | N/A 1256 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP1 Parallel Shaft

Basic Thermal Ratings [★] – kW/Single Reduction Maximum 82°C Sump Temperature[†]

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | | |
|---------|--------------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|-----|------|------|------|------|------|---|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 | |
| 1200 | 1,25 | None | 145 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | 1,40 | Electric Fan | 251 | 298 | 378 | 322 | 329 | 384 | 388 | 392 | 1502 | 1517 | 1532 | * | * | * | * | * | * | * | |
| | | None | 146 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | 1,60 | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | | Electric Fan | 250 | 299 | 379 | 323 | 329 | 393 | 396 | 400 | 1491 | 1506 | 1521 | 769 | 777 | 784 | 1393 | 1407 | 1420 | * | |
| | 1,80 | None | 144 | 145 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | 2,00 | Electric Fan | 245 | 295 | 365 | 317 | 324 | 395 | 399 | 403 | 1447 | 1462 | 1476 | 772 | 780 | 788 | 1387 | 1401 | 1415 | * | |
| | | None | 140 | 143 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | 2,24 | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | | Electric Fan | 196 | 278 | 338 | 288 | 294 | 344 | 348 | 351 | 1174 | 1186 | 1198 | 735 | 742 | 749 | 1329 | 1342 | 1355 | 1109 | |
| | 2,50 | None | 105 | 133 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | 2,80 | Electric Fan | 189 | 263 | 315 | 305 | 311 | 330 | 333 | 337 | 1128 | 1139 | 1150 | 711 | 718 | 726 | 1294 | 1307 | 1320 | 1094 | |
| | | None | 102 | 93 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | 3,15 | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | | Electric Fan | 181 | 207 | 297 | 287 | 293 | 337 | 340 | 344 | 1050 | 1060 | 1071 | 682 | 689 | 696 | 1251 | 1263 | 1276 | 1052 | |
| | 3,55 | None | 99 | 92 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 4,00 | Electric Fan | 173 | 201 | 277 | 251 | 256 | 291 | 294 | 297 | 992 | 1002 | 1012 | 647 | 654 | 660 | 1178 | 1190 | 1202 | 1034 | | |
| | None | 95 | 90 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 4,50 | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| | Electric Fan | 165 | 192 | 199 | 230 | 234 | 274 | 276 | 279 | 915 | 925 | 934 | 606 | 612 | 618 | 1101 | 1112 | 1123 | 970 | | |
| 5,00 | None | 88 | 88 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| 5,00 | Electric Fan | 151 | 182 | 191 | 161 | 164 | 254 | 257 | 259 | 867 | 875 | 884 | 570 | 576 | 582 | 962 | 972 | 981 | 959 | | |
| | None | 68 | 83 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 5,00 | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| | Electric Fan | 113 | 160 | 166 | 178 | 182 | 177 | 179 | 181 | 413 | 417 | 421 | 614 | 621 | 627 | 958 | 967 | 977 | 920 | | |
| 1000 | 1,25 | None | 149 | 151 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | 1,40 | Electric Fan | 252 | 304 | 377 | 331 | 338 | 419 | 423 | 427 | 1559 | 1575 | 1590 | 874 | 882 | 891 | 1587 | 1603 | 1618 | 1347 | |
| | | None | 148 | 152 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | 1,60 | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | | Electric Fan | 250 | 302 | 375 | 327 | 333 | 419 | 423 | 427 | 1526 | 1542 | 1557 | 878 | 887 | 896 | 1595 | 1611 | 1626 | 1354 | |
| | 1,80 | None | 126 | 150 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | 2,00 | Electric Fan | 220 | 294 | 359 | 318 | 325 | 411 | 415 | 419 | 1471 | 1485 | 1500 | 856 | 864 | 873 | 1550 | 1565 | 1581 | 1359 | |
| | | None | 123 | 114 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | 2,24 | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | | Electric Fan | 205 | 239 | 330 | 284 | 290 | 351 | 354 | 358 | 1177 | 1188 | 1200 | 784 | 791 | 799 | 1433 | 1447 | 1462 | 1268 | |
| | 2,50 | None | 114 | 109 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | 2,80 | Electric Fan | 196 | 228 | 245 | 299 | 305 | 333 | 336 | 339 | 1124 | 1135 | 1146 | 747 | 755 | 762 | 1375 | 1388 | 1403 | 1221 | |
| | | None | 108 | 107 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | 3,15 | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | | Electric Fan | 185 | 220 | 237 | 200 | 204 | 336 | 339 | 343 | 1037 | 1048 | 1058 | 706 | 713 | 720 | 1310 | 1324 | 1336 | 1143 | |
| | 3,55 | None | 103 | 103 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 4,00 | Electric Fan | 175 | 210 | 227 | 183 | 187 | 288 | 291 | 294 | 975 | 985 | 995 | 660 | 667 | 673 | 1216 | 1228 | 1241 | 1103 | | |
| | None | 98 | 99 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 4,50 | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| | Electric Fan | 165 | 198 | 215 | 177 | 180 | 177 | 179 | 180 | 895 | 904 | 913 | 610 | 616 | 622 | 1120 | 1131 | 1142 | 1012 | | |
| 5,00 | None | 89 | 93 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| 5,00 | Electric Fan | 150 | 185 | 201 | 184 | 188 | 179 | 181 | 182 | 584 | 590 | 596 | 567 | 572 | 578 | 957 | 967 | 976 | 978 | | |
| | None | 66 | 84 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 5,00 | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| | Electric Fan | 110 | 163 | 168 | 183 | 187 | 200 | 202 | 204 | 461 | 465 | 470 | 274 | 277 | 280 | 838 | 847 | 855 | 902 | | |
| 5,00 | None | 61 | 78 | 89 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| 5,00 | Electric Fan | 102 | 149 | 174 | 190 | 194 | 203 | 205 | 207 | 468 | 473 | 477 | 282 | 285 | 287 | 522 | 527 | 532 | 867 | | |
| | None | 65 | 82 | 85 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| 5,00 | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| | Electric Fan | 108 | 154 | 164 | 182 | 186 | 194 | 196 | 198 | 454 | 459 | 463 | 391 | 394 | 398 | 588 | 594 | 600 | 441 | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP1 Parallel Shaft

Basic Thermal Ratings ★ – kW/Single Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | |
|--------------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|-----|-----|-----|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 | |
| 1200 | 1,25 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Electric Fan | * | * | * | * | * | * | * | * | * | * | * | * | |
| | 1,40 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Electric Fan | * | * | * | * | * | * | * | * | * | * | * | * | |
| | 1,60 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Electric Fan | 1638 | 1654 | 1671 | * | * | * | * | * | * | * | * | * | |
| | 1,80 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Electric Fan | 1624 | 1640 | 1656 | * | * | * | * | * | * | * | * | * | |
| | 2,00 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Electric Fan | 1662 | 1678 | 1695 | * | * | * | * | * | * | * | * | * | | |
| 2,24 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 1650 | 1666 | 1683 | * | * | * | * | * | * | * | * | * | | |
| 2,50 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 1621 | 1637 | 1653 | * | * | * | * | * | * | * | * | * | | |
| 2,80 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 1572 | 1587 | 1603 | 1183 | 1206 | 1492 | 1507 | 1522 | * | * | * | * | | |
| 3,15 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 1502 | 1517 | 1532 | 1199 | 1223 | 1522 | 1537 | 1552 | * | * | * | * | | |
| 3,55 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 1247 | 1259 | 1272 | 1170 | 1194 | 1593 | 1608 | 1624 | * | * | * | * | | |
| 4,00 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 1322 | 1335 | 1348 | 1159 | 1182 | 1542 | 1557 | 1572 | 1316 | 1330 | 1343 | * | | |
| 4,50 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 1226 | 1239 | 1251 | 1259 | 1284 | 1461 | 1476 | 1490 | 1335 | 1349 | 1362 | * | | |
| 5,00 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 1297 | 1310 | 1323 | 1176 | 1200 | 1697 | 1714 | 1731 | 1291 | 1304 | 1317 | * | | |
| 1000 | 1,25 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Electric Fan | 1964 | 1984 | 2003 | * | * | * | * | * | * | * | * | * | |
| | 1,40 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Electric Fan | 2030 | 2050 | 2070 | * | * | * | * | * | * | * | * | * | |
| | 1,60 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Electric Fan | 2044 | 2064 | 2085 | * | * | * | * | * | * | * | * | * | |
| | 1,80 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | Electric Fan | 1964 | 1984 | 2004 | * | * | * | * | * | * | * | * | * | |
| | 2,00 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Electric Fan | 1933 | 1952 | 1971 | 1539 | 1570 | 1959 | 1978 | 1998 | * | * | * | * | | |
| 2,24 | None | * | * | * | * | * | * | * | * | * | * | * | | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 1867 | 1886 | 1904 | 1491 | 1521 | 1925 | 1944 | 1963 | * | * | * | * | | |
| 2,50 | None | * | * | * | * | * | * | * | * | * | * | * | | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 1787 | 1805 | 1823 | 1460 | 1490 | 1902 | 1921 | 1940 | * | * | * | * | | |
| 2,80 | None | * | * | * | * | * | * | * | * | * | * | * | | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 1692 | 1709 | 1726 | 1414 | 1442 | 1856 | 1874 | 1893 | * | * | * | * | | |
| 3,15 | None | * | * | * | * | * | * | * | * | * | * | * | | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 1582 | 1598 | 1613 | 1374 | 1401 | 1784 | 1801 | 1819 | * | * | * | * | | |
| 3,55 | None | * | * | * | * | * | * | * | * | * | * | * | | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 1286 | 1299 | 1312 | 1288 | 1313 | 1779 | 1797 | 1815 | 1592 | 1608 | 1624 | * | | |
| 4,00 | None | * | * | * | * | * | * | * | * | * | * | * | | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 1330 | 1344 | 1357 | 1212 | 1237 | 1647 | 1663 | 1680 | 1589 | 1605 | 1621 | * | | |
| 4,50 | None | * | * | * | * | * | * | * | * | * | * | * | | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 1227 | 1239 | 1251 | 1290 | 1316 | 1534 | 1549 | 1564 | 1499 | 1514 | 1529 | * | | |
| 5,00 | None | * | * | * | * | * | * | * | * | * | * | * | | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| Electric Fan | 1287 | 1299 | 1312 | 1195 | 1219 | 1740 | 1757 | 1774 | 1411 | 1425 | 1439 | * | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP1 Parallel Shaft

Basic Thermal Ratings ★ – kW/Single Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|---------|--------------|-------------------|------------|-----|-----|-----|-----|-----|-----|------|------|------|------|-----|-----|------|------|------|------|------|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 900 | 1,25 | None | 136 | 154 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 1,40 | Electric Fan | 235 | 304 | 372 | 331 | 337 | 427 | 431 | 436 | 1557 | 1572 | 1588 | 910 | 919 | 928 | 1661 | 1678 | 1694 | 1457 |
| | | None | 134 | 153 | 193 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | 1,60 | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Electric Fan | 231 | 300 | 369 | 325 | 331 | 424 | 428 | 432 | 1516 | 1531 | 1547 | 905 | 914 | 923 | 1644 | 1661 | 1677 | 1437 |
| | 1,80 | None | 130 | 125 | 185 | * | * | * | * | * | 392 | 396 | 400 | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 2,00 | Electric Fan | 223 | 261 | 352 | 315 | 321 | 412 | 416 | 420 | 1457 | 1472 | 1486 | 873 | 882 | 891 | 1586 | 1602 | 1617 | 1424 |
| | | None | 126 | 122 | 178 | * | * | * | * | * | 375 | 378 | 382 | * | * | * | * | * | * | * |
| | 2,24 | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Electric Fan | 215 | 252 | 338 | 302 | 308 | 398 | 402 | 406 | 1365 | 1378 | 1392 | 822 | 830 | 838 | 1535 | 1551 | 1567 | 1353 |
| | 2,50 | None | 121 | 120 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 2,80 | Electric Fan | 206 | 245 | 272 | 279 | 285 | 348 | 352 | 355 | 1160 | 1171 | 1183 | 790 | 797 | 805 | 1449 | 1464 | 1478 | 1306 |
| | | None | 116 | 115 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | 3,15 | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Electric Fan | 196 | 232 | 256 | 224 | 229 | 329 | 333 | 336 | 1105 | 1116 | 1127 | 749 | 756 | 764 | 1384 | 1397 | 1412 | 1248 |
| | 3,55 | None | 109 | 111 | * | * | * | * | * | * | 281 | 284 | 287 | * | * | * | * | * | * | * |
| | | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| 4,00 | Electric Fan | 184 | 222 | 244 | 217 | 222 | 221 | 223 | 226 | 1017 | 1027 | 1037 | 704 | 711 | 717 | 1312 | 1326 | 1339 | 1159 | |
| | None | 103 | 106 | 114 | * | * | * | * | * | 266 | 269 | 271 | * | * | * | * | * | * | * | |
| 4,50 | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | Electric Fan | 174 | 210 | 232 | 195 | 199 | 204 | 206 | 208 | 954 | 964 | 973 | 655 | 661 | 668 | 1212 | 1224 | 1236 | 1110 | |
| 5,00 | None | 98 | 100 | 108 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 5,00 | Electric Fan | 164 | 198 | 217 | 184 | 188 | 198 | 200 | 202 | 629 | 635 | 641 | 602 | 608 | 614 | 1111 | 1122 | 1133 | 1011 | |
| | None | 88 | 94 | 101 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5,00 | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | Electric Fan | 148 | 184 | 201 | 190 | 193 | 193 | 195 | 197 | 634 | 641 | 647 | 306 | 309 | 312 | 942 | 952 | 960 | 970 | |
| 5,00 | None | 65 | 84 | 85 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 5,00 | Electric Fan | 107 | 160 | 167 | 185 | 188 | 210 | 213 | 215 | 486 | 491 | 496 | 334 | 337 | 341 | 500 | 505 | 510 | 890 | |
| | None | 60 | 76 | 89 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| 5,00 | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | Electric Fan | 99 | 145 | 171 | 190 | 194 | 211 | 213 | 216 | 482 | 487 | 492 | 328 | 332 | 335 | 609 | 615 | 621 | 453 | |
| 5,00 | None | 63 | 80 | 84 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 5,00 | Electric Fan | 105 | 149 | 161 | 180 | 184 | 197 | 199 | 201 | 461 | 465 | 470 | 431 | 435 | 440 | 659 | 666 | 673 | 547 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP1 Parallel Shaft

Basic Thermal Ratings ★ – kW/Single Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | |
|---------|-----------|-----------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 | |
| 900 | 1,25 | None Shaft Fan Electric Fan | N/A 2165 | N/A 2187 | N/A 2208 | N/A * | N/A * | N/A * | N/A * | N/A * | N/A * | N/A * | N/A * | N/A * |
| | 1,40 | None Shaft Fan Electric Fan | N/A 2192 | N/A 2214 | N/A 2236 | N/A 1724 | N/A 1758 | N/A 2171 | N/A 2193 | N/A 2215 | N/A * | N/A * | N/A * | N/A * |
| | 1,60 | None Shaft Fan Electric Fan | N/A 2164 | N/A 2186 | N/A 2207 | N/A 1758 | N/A 1793 | N/A 2267 | N/A 2289 | N/A 2312 | N/A * | N/A * | N/A * | N/A * |
| | 1,80 | None Shaft Fan Electric Fan | N/A 2061 | N/A 2082 | N/A 2102 | N/A 1729 | N/A 1763 | N/A 2198 | N/A 2220 | N/A 2242 | N/A * | N/A * | N/A * | N/A * |
| | 2,00 | None Shaft Fan Electric Fan | N/A 2004 | N/A 2024 | N/A 2044 | N/A 1691 | N/A 1725 | N/A 2201 | N/A 2223 | N/A 2245 | N/A * | N/A * | N/A * | N/A * |
| | 2,24 | None Shaft Fan Electric Fan | N/A 1919 | N/A 1938 | N/A 1958 | N/A 1607 | N/A 1640 | N/A 2111 | N/A 2132 | N/A 2153 | N/A 1758 | N/A 1775 | N/A 1793 | N/A * |
| | 2,50 | None Shaft Fan Electric Fan | N/A 1822 | N/A 1840 | N/A 1858 | N/A 1549 | N/A 1580 | N/A 2043 | N/A 2064 | N/A 2084 | N/A 1768 | N/A 1786 | N/A 1804 | N/A * |
| | 2,80 | None Shaft Fan Electric Fan | N/A 1711 | N/A 1729 | N/A 1746 | N/A 1476 | N/A 1506 | N/A 1957 | N/A 1976 | N/A 1996 | N/A 1757 | N/A 1774 | N/A 1792 | N/A * |
| | 3,15 | None Shaft Fan Electric Fan | N/A 1588 | N/A 1604 | N/A 1620 | N/A 1417 | N/A 1445 | N/A 1849 | N/A 1867 | N/A 1886 | N/A 1719 | N/A 1736 | N/A 1753 | N/A * |
| | 3,55 | None Shaft Fan Electric Fan | N/A 1282 | N/A 1295 | N/A 1308 | N/A 1311 | N/A 1337 | N/A 1818 | N/A 1836 | N/A 1854 | N/A 1712 | N/A 1729 | N/A 1747 | N/A * |
| | 4,00 | None Shaft Fan Electric Fan | N/A 1315 | N/A 1328 | N/A 1341 | N/A 1213 | N/A 1238 | N/A 1659 | N/A 1676 | N/A 1692 | N/A 1661 | N/A 1678 | N/A 1695 | N/A * |
| | 4,50 | None Shaft Fan Electric Fan | N/A 1209 | N/A 1221 | N/A 1233 | N/A 1282 | N/A 1308 | N/A 1536 | N/A 1552 | N/A 1567 | N/A 1534 | N/A 1549 | N/A 1565 | N/A * |
| | 5,00 | None Shaft Fan Electric Fan | N/A 787 | N/A 795 | N/A 803 | N/A 1184 | N/A 1208 | N/A 1729 | N/A 1746 | N/A 1764 | N/A 1432 | N/A 1446 | N/A 1460 | N/A * |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP2 Parallel Shaft

Basic Thermal Ratings ★ – kW/Double Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | | |
|-----------|--------------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|-----|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 | |
| 1800 | 5,00 | None | | | | | | | | | | | | | | | N/A | N/A | N/A | | |
| | | Shaft Fan | | | | | | | | | | | | | | | | 588 | 594 | 600 | |
| | | Electric Fan | | | | | | | | | | | | | | | | 587 | 593 | 599 | |
| | 5,60 | DuraPlate | | | | | | | | | | | | | | | | 1749 | 1767 | 1784 | |
| | | None | 148 | 197 | 226 | 206 | 210 | 183 | 185 | 187 | * | * | * | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Shaft Fan | 213 | 339 | 408 | 400 | 408 | 498 | 503 | 508 | 636 | 643 | 649 | 495 | 500 | 505 | 677 | 684 | 691 | * | N/A |
| | 6,30 | Electric Fan | 253 | 375 | 444 | 489 | 499 | 502 | 507 | 512 | 660 | 666 | 673 | 432 | 436 | 441 | 677 | 683 | 690 | * | * |
| | | DuraPlate | N/A | 387 | 468 | 556 | 567 | 781 | 789 | 796 | 1177 | 1189 | 1201 | 1164 | 1175 | 1187 | 1792 | 1810 | 1828 | 1579 | |
| | | None | 143 | 190 | 231 | 213 | 217 | 191 | 193 | 195 | * | * | * | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 7,10 | Shaft Fan | 206 | 325 | 410 | 410 | 414 | 503 | 508 | 513 | 660 | 667 | 674 | 522 | 525 | 530 | 801 | 809 | 817 | * | * |
| | | Electric Fan | 245 | 360 | 445 | 493 | 503 | 507 | 512 | 517 | 683 | 690 | 697 | 457 | 461 | 466 | 800 | 808 | 816 | * | * |
| | | DuraPlate | N/A | 371 | 469 | 559 | 571 | 781 | 789 | 797 | 1182 | 1193 | 1205 | 1183 | 1195 | 1207 | 1912 | 1931 | 1950 | 1666 | |
| | 8,00 | None | 146 | 193 | 226 | 212 | 217 | 198 | 200 | 202 | 199 | 201 | 203 | N/A | N/A | N/A | 380 | 384 | 388 | N/A | |
| | | Shaft Fan | 209 | 326 | 399 | 399 | 407 | 495 | 500 | 505 | 663 | 669 | 676 | 608 | 614 | 620 | 1241 | 1253 | 1266 | 694 | |
| | | Electric Fan | 248 | 360 | 433 | 483 | 493 | 499 | 504 | 509 | 684 | 691 | 698 | 542 | 548 | 553 | 1240 | 1253 | 1265 | 693 | |
| | 9,00 | DuraPlate | N/A | 370 | 456 | 547 | 558 | 757 | 765 | 772 | 1164 | 1176 | 1188 | 1280 | 1293 | 1306 | 2372 | 2396 | 2420 | 1820 | |
| | | None | 137 | 189 | 224 | 224 | 225 | 241 | 243 | 246 | 312 | 315 | 318 | 252 | 255 | 257 | 381 | 385 | 389 | * | |
| | | Shaft Fan | 195 | 315 | 386 | 399 | 407 | 536 | 541 | 547 | 775 | 783 | 791 | 791 | 799 | 807 | 1200 | 1212 | 1224 | 1194 | |
| | 10,0 | Electric Fan | 232 | 348 | 417 | 480 | 489 | 540 | 545 | 550 | 797 | 805 | 812 | 729 | 736 | 743 | 1200 | 1212 | 1224 | 1193 | |
| | | DuraPlate | 233 | 307 | 420 | 442 | 451 | 620 | 627 | 633 | 967 | 976 | 986 | 1041 | 1052 | 1062 | 2283 | 2306 | 2329 | 2339 | |
| | | None | 132 | 180 | 224 | 224 | 227 | 240 | 243 | 245 | 312 | 315 | 318 | 256 | 259 | 261 | 416 | 420 | 424 | * | |
| | 11,2 | Shaft Fan | 188 | 300 | 384 | 398 | 406 | 531 | 536 | 542 | 759 | 767 | 774 | 790 | 797 | 805 | 1236 | 1248 | 1261 | 1184 | |
| | | Electric Fan | 223 | 331 | 415 | 477 | 487 | 535 | 540 | 545 | 779 | 787 | 795 | 728 | 735 | 743 | 1235 | 1248 | 1260 | 1184 | |
| | | DuraPlate | 224 | 292 | 418 | 441 | 450 | 614 | 620 | 626 | 943 | 953 | 962 | 1037 | 1048 | 1058 | 2302 | 2325 | 2348 | 2294 | |
| | 12,5 | None | 134 | 181 | 217 | 216 | 220 | 231 | 233 | 236 | 306 | 309 | 313 | 285 | 288 | 290 | 506 | 511 | 516 | * | |
| | | Shaft Fan | 190 | 298 | 370 | 385 | 393 | 504 | 509 | 515 | 736 | 743 | 751 | 828 | 837 | 845 | 1264 | 1277 | 1289 | 1220 | |
| | | Electric Fan | 226 | 328 | 399 | 461 | 470 | 508 | 513 | 518 | 755 | 763 | 771 | 767 | 774 | 782 | 1263 | 1276 | 1289 | 1220 | |
| | 14,0 | DuraPlate | 227 | 290 | 402 | 426 | 435 | 582 | 588 | 594 | 913 | 922 | 931 | 1077 | 1088 | 1099 | 1741 | 1758 | 1775 | 2308 | |
| None | | 116 | 158 | 188 | 201 | 205 | 223 | 225 | 227 | 292 | 295 | 298 | 301 | 304 | 307 | 480 | 485 | 489 | 487 | | |
| Shaft Fan | | 165 | 264 | 323 | 355 | 362 | 475 | 479 | 484 | 681 | 687 | 694 | 763 | 770 | 778 | 1201 | 1213 | 1225 | 1249 | | |
| 16,0 | Electric Fan | 197 | 292 | 349 | 425 | 433 | 478 | 482 | 487 | 698 | 705 | 712 | 710 | 717 | 724 | 1200 | 1212 | 1224 | 1248 | | |
| | DuraPlate | 192 | 251 | 349 | 390 | 398 | 451 | 456 | 460 | 887 | 896 | 905 | 1032 | 1042 | 1053 | 1657 | 1673 | 1690 | 1731 | | |
| | None | 111 | 150 | 188 | 201 | 205 | 220 | 223 | 225 | 286 | 288 | 291 | 298 | 301 | 304 | 496 | 501 | 506 | 477 | | |
| 18,0 | Shaft Fan | 159 | 251 | 321 | 353 | 360 | 468 | 473 | 477 | 660 | 667 | 674 | 755 | 763 | 770 | 1215 | 1227 | 1239 | 1214 | | |
| | Electric Fan | 189 | 277 | 347 | 422 | 430 | 471 | 476 | 481 | 678 | 684 | 691 | 703 | 710 | 717 | 1215 | 1227 | 1239 | 1214 | | |
| | DuraPlate | 185 | 239 | 347 | 388 | 396 | 445 | 449 | 454 | 859 | 868 | 877 | 1022 | 1032 | 1042 | 1665 | 1682 | 1699 | 1681 | | |
| 20,0 | None | 113 | 150 | 182 | 194 | 198 | 203 | 205 | 207 | 277 | 279 | 282 | 314 | 317 | 321 | 541 | 547 | 552 | 491 | | |
| | Shaft Fan | 161 | 249 | 309 | 340 | 347 | 429 | 433 | 437 | 637 | 643 | 650 | 777 | 785 | 792 | 1210 | 1222 | 1234 | 1221 | | |
| | Electric Fan | 192 | 275 | 334 | 406 | 414 | 432 | 436 | 440 | 653 | 660 | 666 | 725 | 732 | 739 | 1209 | 1221 | 1234 | 1220 | | |
| 22,4 | DuraPlate | 187 | 237 | 334 | 373 | 381 | 408 | 412 | 416 | 828 | 836 | 844 | 1044 | 1054 | 1065 | 1296 | 1309 | 1322 | 1679 | | |
| | None | 101 | 139 | 166 | 179 | 182 | 193 | 195 | 197 | 289 | 292 | 295 | 739 | 746 | 753 | 1225 | 1237 | 1249 | 1292 | | |
| | Shaft Fan | 144 | 231 | 282 | 311 | 317 | 407 | 411 | 415 | 642 | 649 | 655 | 706 | 713 | 720 | 1142 | 1154 | 1165 | 1205 | | |
| 25,0 | Electric Fan | 171 | 255 | 304 | 371 | 378 | 410 | 414 | 418 | 658 | 665 | 671 | 660 | 667 | 673 | 1142 | 1153 | 1165 | 1204 | | |
| | DuraPlate | 147 | 217 | 262 | 292 | 297 | 327 | 330 | 333 | 664 | 670 | 677 | 576 | 582 | 587 | 959 | 968 | 978 | 1007 | | |
| | None | 96 | 131 | 166 | 178 | 182 | 191 | 193 | 194 | 280 | 283 | 285 | 298 | 300 | 303 | 517 | 522 | 527 | 513 | | |
| 28,0 | Shaft Fan | 138 | 219 | 280 | 309 | 315 | 401 | 405 | 409 | 619 | 626 | 632 | 698 | 705 | 712 | 1150 | 1161 | 1173 | 1164 | | |
| | Electric Fan | 164 | 242 | 302 | 368 | 375 | 404 | 408 | 412 | 635 | 641 | 647 | 652 | 659 | 666 | 1149 | 1161 | 1172 | 1163 | | |
| | DuraPlate | 141 | 206 | 261 | 290 | 296 | 322 | 325 | 328 | 640 | 647 | 653 | 730 | 737 | 745 | 1231 | 1244 | 1256 | 1248 | | |
| 31,5 | None | 98 | 131 | 160 | 172 | 175 | 180 | 182 | 183 | 269 | 271 | 274 | 309 | 313 | 316 | 538 | 544 | 549 | 518 | | |
| | Shaft Fan | 140 | 217 | 270 | 297 | 303 | 378 | 382 | 385 | 593 | 599 | 605 | 714 | 722 | 729 | 1130 | 1141 | 1153 | 1161 | | |
| | Electric Fan | 166 | 239 | 291 | 354 | 361 | 380 | 384 | 388 | 607 | 613 | 620 | 669 | 675 | 682 | 1130 | 1141 | 1152 | 1161 | | |
| 35,0 | DuraPlate | 143 | 204 | 251 | 279 | 285 | 303 | 306 | 309 | 612 | 619 | 625 | 747 | 754 | 762 | 1435 | 1450 | 1464 | 1244 | | |
| | None | 97 | 127 | 153 | 163 | 166 | 208 | 210 | 212 | 270 | 273 | 276 | 344 | 347 | 351 | 502 | 507 | 512 | 532 | | |
| | Shaft Fan | 137 | 216 | 254 | 276 | 282 | 415 | 419 | 423 | 566 | 572 | 578 | 726 | 733 | 741 | 1065 | 1075 | 1086 | 1127 | | |
| 40,0 | Electric Fan | 163 | 240 | 273 | 327 | 334 | 418 | 422 | 426 | 580 | 585 | 591 | 685 | 691 | 698 | 1064 | 1075 | 1085 | 1127 | | |
| | DuraPlate | 139 | 187 | 213 | 232 | 236 | 301 | 304 | 307 | 493 | 498 | 503 | 637 | 643 | 650 | 1357 | 1371 | 1384 | 1436 | | |
| | None | 93 | 121 | 153 | 162 | 166 | 206 | 208 | 210 | 261 | 264 | 267 | 338 | 342 | 345 | 551 | 557 | 562 | 511 | | |
| 45,0 | Shaft Fan | 133 | 203 | 243 | 265 | 270 | 384 | 388 | 392 | 526 | 532 | 537 | 732 | 739 | 747 | | | | 553 | | |
| | Electric Fan | 156 | 229 | 272 | 325 | 331 | 413 | 418 | 422 | 560 | 566 | 571 | 675 | 682 | 689 | 1185 | 1197 | 1209 | 1086 | | |
| | DuraPlate | 134 | 172 | 212 | 231 | 235 | 298 | 301 | 304 | 477 | 482 | 486 | 628 | 635 | 641 | 1518 | 1533 | 1548 | 1385 | | |
| 50,0 | None | 94 | 121 | 147 | 156 | 160 | 192 | 194 | 196 | 251 | 254 | 256 | 351 | 355 | 358 | | | | 553 | | |
| | Shaft Fan | 133 | 203 | 243 | 265 | 270 | 384 | 388 | 392 | 526 | 532 | 537 | 732 | 739 | 747 | | | | 1196 | | |
| | Electric Fan | 158 | 225 | 262 | 313 | 319 | 387 | 390 | 394 | 539 | 544 | 549 | 691 | 698 | 704 | | | | 1196 | | |
| 56,0 | DuraPlate | 135 | 170 | 205 | 222 | 227 | 278 | 281 | 284 | 459 | 463 | 468 | 644 | 650 | 656 | | | | 1534 | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP2 Parallel Shaft

Basic Thermal Ratings ★ – kW/Double Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|-----------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|------|-----|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1800 | 5,00 | None | * | * | * | | | * | * | * | | | |
| | | Shaft Fan | * | * | * | | | * | * | * | | | |
| | | Electric Fan | * | * | * | | | * | * | * | | | |
| | DuraPlate | 2672 | 2699 | 2725 | | | | | | | | | |
| | 5,60 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * |
| | | Electric Fan | * | * | * | * | * | * | * | * | * | * | * |
| | DuraPlate | 2913 | 2942 | 2971 | 2040 | 2081 | | | | | | | |
| | 6,30 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * |
| | | Electric Fan | * | * | * | * | * | * | * | * | * | * | * |
| | DuraPlate | 2928 | 2958 | 2987 | 2450 | 2499 | 1361 | 1375 | 1389 | | | | |
| | 7,10 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 1631 | 1648 | 1664 | * | * | * | * | * | * | * | * |
| | | Electric Fan | 1549 | 1565 | 1580 | * | * | * | * | * | * | * | * |
| | DuraPlate | 2564 | 2590 | 2615 | 2546 | 2597 | 2371 | 2395 | 2418 | | | | |
| | 8,00 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 1674 | 1691 | 1708 | 1448 | 1477 | 995 | 1005 | 1015 | * | * | * |
| | | Electric Fan | 1595 | 1611 | 1627 | 1366 | 1393 | * | * | * | * | * | * |
| | DuraPlate | 2567 | 2593 | 2619 | 2390 | 2438 | 2562 | 2587 | 2613 | 1678 | 1695 | 1712 | |
| | 9,00 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 1635 | 1651 | 1667 | 1550 | 1581 | 1079 | 1090 | 1101 | * | * | * |
| | | Electric Fan | 1558 | 1574 | 1589 | 1469 | 1499 | 889 | 898 | 907 | * | * | * |
| | DuraPlate | 2501 | 2526 | 2551 | 2457 | 2506 | 2595 | 2621 | 2647 | 2075 | 2096 | 2117 | |
| | 10,0 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 1782 | 1800 | 1818 | 1531 | 1562 | 2021 | 2041 | 2061 | * | * | * |
| | | Electric Fan | 1713 | 1730 | 1748 | 1454 | 1483 | 1842 | 1861 | 1879 | * | * | * |
| | DuraPlate | 2000 | 2020 | 2040 | 2409 | 2458 | 4599 | 4645 | 4691 | 2191 | 2213 | 2234 | |
| 11,2 | None | 504 | 509 | 514 | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 1765 | 1783 | 1800 | 1709 | 1743 | 1995 | 2015 | 2035 | 1806 | 1824 | 1842 | |
| | Electric Fan | 1698 | 1715 | 1732 | 1639 | 1672 | 1825 | 1843 | 1861 | 1627 | 1644 | 1660 | |
| DuraPlate | 1974 | 1994 | 2014 | 1927 | 1965 | 4458 | 4503 | 4547 | 4405 | 4449 | 4493 | | |
| 12,5 | None | 486 | 491 | 495 | 460 | 470 | * | * | * | * | * | * | |
| | Shaft Fan | 1705 | 1722 | 1739 | 1727 | 1761 | 1951 | 1970 | 1990 | 1836 | 1854 | 1873 | |
| | Electric Fan | 1640 | 1657 | 1673 | 1660 | 1693 | 1786 | 1804 | 1821 | 1667 | 1683 | 1700 | |
| DuraPlate | 1909 | 1928 | 1947 | 1938 | 1977 | 4353 | 4397 | 4440 | 4312 | 4355 | 4398 | | |
| 14,0 | None | 579 | 584 | 590 | 450 | 459 | 700 | 707 | 714 | * | * | * | |
| | Shaft Fan | 1662 | 1678 | 1695 | 1674 | 1708 | 2325 | 2348 | 2372 | 1816 | 1835 | 1853 | |
| | Electric Fan | 1605 | 1621 | 1637 | 1609 | 1641 | 2175 | 2197 | 2219 | 1652 | 1669 | 1685 | |
| DuraPlate | 2282 | 2305 | 2328 | 1880 | 1917 | 3411 | 3445 | 3479 | 4228 | 4270 | 4312 | | |
| 16,0 | None | 579 | 585 | 591 | 550 | 561 | 673 | 680 | 687 | * | * | * | |
| | Shaft Fan | 1630 | 1646 | 1662 | 1627 | 1660 | 2220 | 2242 | 2264 | 2261 | 2284 | 2307 | |
| | Electric Fan | 1574 | 1590 | 1606 | 1570 | 1602 | 2077 | 2097 | 2118 | 2111 | 2133 | 2154 | |
| DuraPlate | 2227 | 2250 | 2272 | 2249 | 2293 | 3260 | 3293 | 3326 | 3350 | 3384 | 3417 | | |
| 18,0 | None | 552 | 558 | 563 | 566 | 578 | 646 | 653 | 659 | 631 | 638 | 644 | |
| | Shaft Fan | 1572 | 1588 | 1603 | 1621 | 1653 | 2144 | 2166 | 2187 | 2167 | 2189 | 2210 | |
| | Electric Fan | 1518 | 1533 | 1548 | 1565 | 1596 | 2005 | 2025 | 2045 | 2024 | 2044 | 2064 | |
| DuraPlate | 2156 | 2178 | 2199 | 2222 | 2266 | 3161 | 3192 | 3224 | 3209 | 3241 | 3273 | | |
| 20,0 | None | 625 | 631 | 637 | 542 | 553 | 766 | 774 | 781 | 611 | 617 | 623 | |
| | Shaft Fan | 1627 | 1643 | 1659 | 1565 | 1596 | 2270 | 2292 | 2315 | 2098 | 2119 | 2140 | |
| | Electric Fan | 1573 | 1589 | 1604 | 1511 | 1541 | 2128 | 2150 | 2171 | 1959 | 1978 | 1998 | |
| DuraPlate | 1777 | 1795 | 1813 | 2153 | 2196 | 2808 | 2836 | 2864 | 3115 | 3146 | 3177 | | |
| 22,4 | None | 628 | 634 | 641 | 606 | 618 | 764 | 772 | 779 | 782 | 790 | 798 | |
| | Shaft Fan | 1830 | 1849 | 1867 | 1601 | 1633 | 2238 | 2261 | 2283 | 2278 | 2301 | 2323 | |
| | Electric Fan | 1582 | 1598 | 1613 | 1548 | 1578 | 2100 | 2121 | 2142 | 2137 | 2158 | 2180 | |
| DuraPlate | 1789 | 1807 | 1825 | 1752 | 1787 | 2552 | 2578 | 2603 | 2815 | 2843 | 2871 | | |
| 25,0 | None | 595 | 601 | 607 | 626 | 638 | 779 | 787 | 795 | 789 | 797 | 805 | |
| | Shaft Fan | 1763 | 1781 | 1799 | 1837 | 1874 | 2207 | 2229 | 2251 | 2256 | 2279 | 2301 | |
| | Electric Fan | 1520 | 1535 | 1550 | 1589 | 1621 | 2072 | 2093 | 2114 | 2118 | 2139 | 2160 | |
| DuraPlate | 1723 | 1740 | 1758 | 1800 | 1836 | 2511 | 2537 | 2562 | 2569 | 2595 | 2621 | | |
| 28,0 | None | | | | 594 | 606 | | | | 754 | 761 | 769 | |
| | Shaft Fan | | | | 1771 | 1807 | | | | 2171 | 2193 | 2215 | |
| | Electric Fan | | | | 1528 | 1559 | | | | 2037 | 2058 | 2078 | |
| DuraPlate | | | | 1734 | 1769 | | | | 2476 | 2501 | 2525 | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP2 Parallel Shaft

Basic Thermal Ratings ★ – kW/Double Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | | |
|-----------|--------------|-------------------|------------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|-----|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 | |
| 1500 | 5,00 | None | | | | | | | | | | | | | | | * | * | * | | |
| | | Shaft Fan | | | | | | | | | | | | | | | | 918 | 927 | 936 | |
| | | Electric Fan | | | | | | | | | | | | | | | | 1103 | 1114 | 1125 | |
| | DuraPlate | | | | | | | | | | | | | | | | 1872 | 1891 | 1910 | | |
| | 5,60 | None | 145 | 195 | 230 | 224 | 226 | 229 | 231 | 234 | 259 | 262 | 264 | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 188 | 298 | 362 | 364 | 371 | 472 | 477 | 481 | 642 | 648 | 654 | 619 | 626 | 632 | 632 | 933 | 943 | 952 | 822 |
| | | Electric Fan | 246 | 365 | 436 | 492 | 501 | 542 | 547 | 553 | 761 | 769 | 777 | 671 | 678 | 684 | 1110 | 1121 | 1132 | 1007 | |
| | DuraPlate | 267 | 346 | 420 | 498 | 508 | 708 | 716 | 723 | 1080 | 1091 | 1102 | 1175 | 1187 | 1199 | 1845 | 1863 | 1882 | 1782 | | |
| | 6,30 | None | 140 | 187 | 232 | 226 | 230 | 232 | 234 | 237 | 273 | 276 | 279 | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 182 | 285 | 363 | 366 | 373 | 471 | 476 | 481 | 645 | 651 | 657 | 629 | 635 | 641 | 1007 | 1017 | 1027 | 866 | |
| | | Electric Fan | 238 | 348 | 436 | 492 | 502 | 540 | 546 | 551 | 760 | 768 | 775 | 680 | 687 | 693 | 1183 | 1195 | 1207 | 1045 | |
| | DuraPlate | 258 | 331 | 420 | 498 | 508 | 704 | 711 | 718 | 1067 | 1078 | 1088 | 1178 | 1190 | 1202 | 1909 | 1928 | 1947 | 1797 | | |
| | 7,10 | None | 143 | 189 | 226 | 224 | 226 | 229 | 231 | 233 | 277 | 280 | 282 | * | * | * | 536 | 542 | 547 | * | |
| | | Shaft Fan | 184 | 285 | 351 | 357 | 364 | 455 | 460 | 464 | 635 | 642 | 648 | 687 | 694 | 701 | 1204 | 1217 | 1229 | 954 | |
| | | Electric Fan | 240 | 347 | 422 | 478 | 488 | 674 | 681 | 687 | 747 | 754 | 762 | 739 | 747 | 754 | 1368 | 1382 | 1396 | 1133 | |
| | DuraPlate | 261 | 329 | 406 | 485 | 494 | 674 | 681 | 687 | 1042 | 1052 | 1063 | 1241 | 1254 | 1266 | 2120 | 2142 | 2163 | 1872 | | |
| | 8,00 | None | 132 | 182 | 217 | 219 | 224 | 250 | 252 | 255 | 338 | 342 | 345 | 329 | 332 | 336 | 515 | 520 | 526 | 508 | |
| | | Shaft Fan | 171 | 273 | 334 | 348 | 355 | 473 | 478 | 482 | 691 | 698 | 705 | 750 | 758 | 765 | 1149 | 1161 | 1172 | 1178 | |
| | | Electric Fan | 223 | 332 | 400 | 464 | 473 | 537 | 542 | 547 | 799 | 807 | 815 | 798 | 806 | 814 | 1306 | 1319 | 1332 | 1343 | |
| | DuraPlate | 208 | 275 | 371 | 393 | 401 | 551 | 556 | 562 | 854 | 863 | 871 | 961 | 971 | 981 | 2025 | 2045 | 2065 | 2104 | | |
| 9,00 | None | 127 | 172 | 217 | 220 | 224 | 248 | 250 | 252 | 336 | 336 | 339 | 328 | 332 | 335 | 539 | 545 | 550 | 504 | | |
| | Shaft Fan | 164 | 259 | 332 | 347 | 354 | 467 | 472 | 476 | 672 | 679 | 686 | 745 | 752 | 760 | 1172 | 1183 | 1195 | 1152 | | |
| | Electric Fan | 214 | 315 | 397 | 461 | 470 | 530 | 535 | 540 | 776 | 784 | 792 | 792 | 800 | 808 | 1326 | 1340 | 1353 | 1312 | | |
| DuraPlate | 200 | 261 | 368 | 391 | 399 | 544 | 549 | 555 | 829 | 837 | 846 | 954 | 963 | 973 | 2035 | 2055 | 2075 | 2049 | | | |
| 10,0 | None | 129 | 173 | 209 | 213 | 217 | 235 | 238 | 240 | 323 | 326 | 330 | 351 | 355 | 359 | 558 | 564 | 569 | 528 | | |
| | Shaft Fan | 166 | 258 | 320 | 335 | 341 | 441 | 446 | 450 | 649 | 656 | 662 | 774 | 782 | 790 | 1138 | 1149 | 1161 | 1169 | | |
| | Electric Fan | 216 | 312 | 382 | 444 | 453 | 500 | 505 | 510 | 749 | 757 | 764 | 822 | 830 | 838 | 1280 | 1292 | 1305 | 1327 | | |
| DuraPlate | 203 | 260 | 354 | 377 | 385 | 513 | 518 | 523 | 800 | 808 | 816 | 984 | 994 | 1004 | 1532 | 1547 | 1563 | 2049 | | | |
| 11,2 | None | 111 | 150 | 180 | 194 | 198 | 221 | 223 | 225 | 298 | 299 | 301 | 322 | 325 | 328 | 525 | 530 | 535 | 546 | | |
| | Shaft Fan | 144 | 227 | 277 | 305 | 311 | 410 | 414 | 418 | 589 | 595 | 601 | 676 | 683 | 690 | 1075 | 1086 | 1097 | 1128 | | |
| | Electric Fan | 188 | 277 | 331 | 405 | 413 | 464 | 469 | 474 | 679 | 686 | 693 | 717 | 724 | 731 | 1210 | 1223 | 1235 | 1271 | | |
| DuraPlate | 172 | 223 | 306 | 343 | 350 | 401 | 405 | 409 | 762 | 769 | 777 | 901 | 910 | 919 | 1452 | 1466 | 1481 | 1526 | | | |
| 12,5 | None | 107 | 143 | 180 | 194 | 198 | 218 | 220 | 222 | 287 | 289 | 292 | 318 | 321 | 324 | 537 | 543 | 548 | 529 | | |
| | Shaft Fan | 138 | 216 | 276 | 303 | 309 | 404 | 408 | 412 | 570 | 576 | 581 | 668 | 675 | 681 | 1086 | 1097 | 1108 | 1092 | | |
| | Electric Fan | 181 | 263 | 329 | 402 | 410 | 457 | 462 | 466 | 657 | 664 | 670 | 708 | 715 | 722 | 1220 | 1232 | 1244 | 1230 | | |
| DuraPlate | 165 | 212 | 304 | 341 | 347 | 395 | 398 | 402 | 737 | 744 | 751 | 890 | 899 | 908 | 1458 | 1473 | 1488 | 1477 | | | |
| 14,0 | None | 108 | 143 | 173 | 187 | 191 | 200 | 202 | 204 | 277 | 280 | 282 | 332 | 335 | 339 | 542 | 548 | 553 | 537 | | |
| | Shaft Fan | 140 | 214 | 266 | 292 | 298 | 370 | 374 | 377 | 549 | 555 | 560 | 687 | 694 | 701 | 1051 | 1062 | 1072 | 1094 | | |
| | Electric Fan | 183 | 260 | 317 | 387 | 394 | 418 | 423 | 427 | 633 | 639 | 645 | 727 | 734 | 742 | 1175 | 1187 | 1198 | 1230 | | |
| DuraPlate | 167 | 211 | 293 | 328 | 334 | 361 | 365 | 369 | 709 | 716 | 723 | 910 | 919 | 929 | 1136 | 1148 | 1159 | 1473 | | | |
| 16,0 | None | 96 | 131 | 157 | 170 | 174 | 188 | 190 | 191 | 281 | 283 | 286 | 301 | 304 | 307 | 506 | 511 | 516 | 535 | | |
| | Shaft Fan | 125 | 198 | 241 | 266 | 271 | 348 | 352 | 355 | 547 | 552 | 558 | 610 | 616 | 622 | 989 | 999 | 1009 | 1046 | | |
| | Electric Fan | 163 | 241 | 288 | 351 | 358 | 394 | 398 | 402 | 629 | 635 | 641 | 645 | 651 | 658 | 1107 | 1118 | 1129 | 1171 | | |
| DuraPlate | 133 | 193 | 233 | 259 | 264 | 293 | 296 | 299 | 573 | 579 | 585 | 647 | 653 | 660 | 1070 | 1081 | 1092 | 1132 | | | |
| 18,0 | None | 92 | 124 | 157 | 170 | 173 | 187 | 187 | 189 | 271 | 274 | 276 | 298 | 299 | 302 | 515 | 520 | 525 | 515 | | |
| | Shaft Fan | 120 | 188 | 240 | 264 | 269 | 343 | 346 | 350 | 527 | 532 | 538 | 602 | 608 | 614 | 996 | 1006 | 1016 | 1008 | | |
| | Electric Fan | 157 | 229 | 286 | 348 | 355 | 388 | 392 | 396 | 606 | 612 | 618 | 637 | 643 | 649 | 1113 | 1125 | 1136 | 1129 | | |
| DuraPlate | 127 | 183 | 232 | 258 | 263 | 289 | 292 | 294 | 553 | 558 | 564 | 639 | 645 | 652 | 1077 | 1088 | 1099 | 1092 | | | |
| 20,0 | None | 94 | 124 | 151 | 163 | 167 | 174 | 176 | 178 | 260 | 262 | 265 | 308 | 311 | 314 | 517 | 523 | 528 | 518 | | |
| | Shaft Fan | 121 | 186 | 231 | 254 | 259 | 322 | 326 | 329 | 504 | 509 | 514 | 617 | 624 | 630 | 967 | 977 | 987 | 1006 | | |
| | Electric Fan | 159 | 226 | 276 | 335 | 342 | 365 | 369 | 372 | 579 | 585 | 591 | 652 | 659 | 665 | 1076 | 1087 | 1098 | 1125 | | |
| DuraPlate | 129 | 182 | 223 | 248 | 253 | 272 | 274 | 277 | 529 | 534 | 539 | 655 | 661 | 668 | 1222 | 1235 | 1247 | 1088 | | | |
| 22,4 | None | 92 | 121 | 144 | 153 | 157 | 197 | 199 | 201 | 260 | 262 | 265 | 328 | 331 | 335 | 481 | 486 | 491 | 512 | | |
| | Shaft Fan | 119 | 185 | 217 | 235 | 240 | 351 | 354 | 358 | 504 | 509 | 514 | 618 | 624 | 630 | 909 | 918 | 927 | 963 | | |
| | Electric Fan | 155 | 228 | 257 | 308 | 315 | 394 | 398 | 402 | 579 | 585 | 591 | 650 | 656 | 663 | 1012 | 1023 | 1033 | 1073 | | |
| DuraPlate | 125 | 168 | 191 | 208 | 212 | 269 | 272 | 274 | 431 | 435 | 439 | 558 | 564 | 569 | 1152 | 1164 | 1176 | 1221 | | | |
| 25,0 | None | 88 | 115 | 144 | 153 | 156 | 194 | 196 | 198 | 247 | 250 | 252 | 323 | 326 | 329 | 528 | 533 | 538 | 490 | | |
| | Shaft Fan | 113 | 176 | 216 | 234 | 239 | 347 | 350 | 354 | 464 | 468 | 473 | 609 | 615 | 621 | 1008 | 1018 | 1028 | 927 | | |
| | Electric Fan | 148 | 217 | 256 | 306 | 312 | 389 | 393 | 397 | 529 | 534 | 540 | 640 | 647 | 653 | 1126 | 1137 | 1148 | 1033 | | |
| DuraPlate | 120 | 154 | 190 | 207 | 211 | 266 | 269 | 271 | 416 | 420 | 424 | 550 | 555 | 561 | 1284 | 1297 | 1310 | 1176 | | | |
| 28,0 | None | 89 | 114 | 139 | 147 | 150 | 181 | 183 | 185 | 238 | 240 | 243 | 335 | 338 | 342 | | | | 530 | | |
| | Shaft Fan | 115 | 174 | 208 | 226 | 230 | 324 | 327 | 330 | 446 | 450 | 455 | 624 | 630 | 637 | | | | 1016 | | |
| | Electric Fan | 150 | 214 | 247 | 295 | 301 | 364 | 368 | 371 | 509 | 514 | 519 | 655 | 662 | 669 | | | | 1136 | | |
| DuraPlate | 122 | 153 | 183 | 199 | 203 | 248 | 251 | 253 | 400 | 404 | 408 | 564 | 570 | 576 | | | | 1297 | | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP2 Parallel Shaft

Basic Thermal Ratings ★ – kW/Double Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | |
|-----------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|------|------|---|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 | |
| 1500 | 5,00 | None | * | * | * | | | * | * | * | | | | |
| | | Shaft Fan | 1026 | 1037 | 1047 | | | * | * | * | | | | |
| | | Electric Fan | 1230 | 1242 | 1254 | | | * | * | * | | | | |
| | DuraPlate | 2863 | 2891 | 2920 | | | 2023 | 2043 | 2064 | | | | | |
| | 5,60 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 1199 | 1211 | 1223 | * | * | * | * | * | * | * | * | * |
| | | Electric Fan | 1395 | 1409 | 1423 | 863 | 880 | * | * | * | * | * | * | * |
| | DuraPlate | 2951 | 2980 | 3010 | 2520 | 2570 | 2584 | 2610 | 2636 | * | * | * | * | |
| | 6,30 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 1218 | 1230 | 1242 | 918 | 937 | * | * | * | * | * | * | * |
| | | Electric Fan | 1406 | 1420 | 1434 | 1117 | 1139 | * | * | * | * | * | * | * |
| | DuraPlate | 2907 | 2936 | 2965 | 2711 | 2765 | 2758 | 2786 | 2814 | 1688 | 1705 | 1721 | | |
| | 7,10 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 1626 | 1643 | 1659 | 986 | 1005 | 1495 | 1510 | 1525 | * | * | * | * |
| | | Electric Fan | 1792 | 1809 | 1827 | 1176 | 1200 | 1667 | 1684 | 1700 | * | * | * | * |
| | DuraPlate | 2363 | 2386 | 2410 | 2709 | 2763 | 2795 | 2822 | 2850 | 2019 | 2039 | 2059 | | |
| | 8,00 | None | 497 | 502 | 507 | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 1633 | 1650 | 1666 | 1517 | 1548 | 1583 | 1598 | 1614 | 1114 | 1125 | 1137 | |
| | | Electric Fan | 1792 | 1810 | 1828 | 1683 | 1717 | 1746 | 1764 | 1781 | 1284 | 1296 | 1309 | |
| | DuraPlate | 2341 | 2364 | 2387 | 2257 | 2302 | 2815 | 2843 | 2871 | 2413 | 2437 | 2461 | | |
| | 9,00 | None | 486 | 491 | 496 | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 1581 | 1597 | 1613 | 1567 | 1599 | 1585 | 1601 | 1617 | 1309 | 1323 | 1336 | |
| | | Electric Fan | 1735 | 1752 | 1770 | 1728 | 1762 | 1743 | 1761 | 1778 | 1471 | 1486 | 1501 | |
| | DuraPlate | 2268 | 2290 | 2313 | 2282 | 2328 | 2779 | 2807 | 2835 | 2541 | 2566 | 2592 | | |
| | 10,0 | None | 603 | 609 | 615 | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 1605 | 1621 | 1637 | 1527 | 1557 | 2028 | 2048 | 2068 | 1358 | 1371 | 1385 | |
| | | Electric Fan | 1745 | 1763 | 1780 | 1682 | 1716 | 2170 | 2192 | 2214 | 1514 | 1529 | 1544 | |
| | DuraPlate | 1785 | 1803 | 1821 | 2220 | 2264 | 4064 | 4104 | 4145 | 2549 | 2575 | 2600 | | |
| 11,2 | None | 611 | 617 | 623 | 560 | 571 | 572 | 578 | 583 | * | * | * | * | |
| | Shaft Fan | 1583 | 1599 | 1614 | 1556 | 1587 | 1962 | 1982 | 2002 | 1901 | 1920 | 1939 | | |
| | Electric Fan | 1718 | 1735 | 1752 | 1696 | 1730 | 2099 | 2120 | 2141 | 2044 | 2065 | 2085 | | |
| DuraPlate | 1756 | 1774 | 1792 | 1736 | 1770 | 3910 | 3949 | 3988 | 3947 | 3987 | 4026 | | | |
| 12,5 | None | 584 | 590 | 596 | 586 | 598 | 560 | 565 | 571 | * | * | * | * | |
| | Shaft Fan | 1524 | 1540 | 1555 | 1562 | 1594 | 1903 | 1922 | 1941 | 1865 | 1884 | 1902 | | |
| | Electric Fan | 1656 | 1672 | 1689 | 1698 | 1732 | 2036 | 2056 | 2076 | 2001 | 2021 | 2041 | | |
| DuraPlate | 1693 | 1710 | 1727 | 1737 | 1772 | 3804 | 3842 | 3880 | 3818 | 3856 | 3894 | | | |
| 14,0 | None | 601 | 607 | 613 | 564 | 575 | 799 | 807 | 815 | * | * | * | * | |
| | Shaft Fan | 1438 | 1453 | 1467 | 1508 | 1538 | 2058 | 2079 | 2099 | 1820 | 1838 | 1856 | | |
| | Electric Fan | 1555 | 1571 | 1586 | 1640 | 1673 | 2179 | 2201 | 2223 | 1952 | 1971 | 1991 | | |
| DuraPlate | 1938 | 1958 | 1977 | 1678 | 1712 | 2927 | 2956 | 2985 | 3723 | 3760 | 3798 | | | |
| 16,0 | None | 598 | 604 | 610 | 579 | 591 | 759 | 767 | 774 | 762 | 770 | 777 | | |
| | Shaft Fan | 1410 | 1425 | 1439 | 1411 | 1439 | 1957 | 1977 | 1996 | 2014 | 2034 | 2054 | | |
| | Electric Fan | 1523 | 1539 | 1554 | 1528 | 1558 | 2073 | 2094 | 2114 | 2135 | 2156 | 2178 | | |
| DuraPlate | 1893 | 1912 | 1931 | 1911 | 1949 | 2789 | 2817 | 2845 | 2884 | 2913 | 2941 | | | |
| 18,0 | None | 569 | 575 | 581 | 590 | 602 | 725 | 733 | 740 | 728 | 735 | 743 | | |
| | Shaft Fan | 1358 | 1371 | 1385 | 1405 | 1434 | 1886 | 1905 | 1924 | 1918 | 1937 | 1956 | | |
| | Electric Fan | 1468 | 1483 | 1497 | 1519 | 1549 | 1999 | 2019 | 2039 | 2034 | 2054 | 2074 | | |
| DuraPlate | 1829 | 1847 | 1865 | 1890 | 1928 | 2698 | 2725 | 2752 | 2750 | 2777 | 2805 | | | |
| 20,0 | None | 603 | 609 | 615 | 563 | 575 | 796 | 804 | 812 | 699 | 706 | 713 | | |
| | Shaft Fan | 1380 | 1394 | 1408 | 1354 | 1381 | 1964 | 1984 | 2003 | 1851 | 1869 | 1888 | | |
| | Electric Fan | 1490 | 1505 | 1520 | 1465 | 1494 | 2079 | 2100 | 2120 | 1963 | 1983 | 2003 | | |
| DuraPlate | 1508 | 1523 | 1538 | 1828 | 1864 | 2399 | 2423 | 2447 | 2662 | 2689 | 2716 | | | |
| 22,4 | None | 608 | 615 | 621 | 586 | 598 | 785 | 793 | 801 | 797 | 805 | 813 | | |
| | Shaft Fan | 1504 | 1519 | 1534 | 1358 | 1385 | 1930 | 1949 | 1968 | 1958 | 1977 | 1997 | | |
| | Electric Fan | 1502 | 1517 | 1532 | 1468 | 1497 | 2042 | 2063 | 2083 | 2072 | 2093 | 2113 | | |
| DuraPlate | 1518 | 1533 | 1548 | 1485 | 1515 | 2188 | 2210 | 2232 | 2392 | 2416 | 2439 | | | |
| 25,0 | None | 576 | 581 | 587 | 608 | 620 | 774 | 782 | 790 | 791 | 799 | 807 | | |
| | Shaft Fan | 1444 | 1459 | 1473 | 1511 | 1541 | 1881 | 1900 | 1919 | 1928 | 1948 | 1967 | | |
| | Electric Fan | 1442 | 1456 | 1471 | 1510 | 1541 | 1991 | 2010 | 2030 | 2041 | 2061 | 2082 | | |
| DuraPlate | 1457 | 1472 | 1487 | 1527 | 1557 | 2132 | 2154 | 2175 | 2186 | 2208 | 2230 | | | |
| 28,0 | None | | | | 576 | 588 | | | | | 753 | 761 | 768 | |
| | Shaft Fan | | | | 1452 | 1481 | | | | | 1852 | 1870 | 1889 | |
| | Electric Fan | | | | 1451 | 1480 | | | | | 1961 | 1980 | 2000 | |
| DuraPlate | | | | 1467 | 1496 | | | | | 2102 | 2123 | 2144 | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP2 Parallel Shaft

Basic Thermal Ratings ★ – kW/Double Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|-----------|--------------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1200 | 5,00 | None | | | | | | | | | | | | | | | 499 | 504 | 509 | |
| | | Shaft Fan | | | | | | | | | | | | | | | 1029 | 1039 | 1050 | |
| | | Electric Fan | | | | | | | | | | | | | | | 1390 | 1404 | 1417 | |
| | DuraPlate | | | | | | | | | | | | | | | 1778 | 1796 | 1814 | | |
| | 5,60 | None | 140 | 188 | 224 | 224 | 229 | 252 | 254 | 257 | 321 | 324 | 328 | 316 | 319 | 322 | 496 | 501 | 505 | 453 |
| | | Shaft Fan | 162 | 253 | 309 | 315 | 321 | 420 | 424 | 428 | 590 | 596 | 602 | 639 | 645 | 652 | 999 | 1009 | 1019 | 981 |
| | | Electric Fan | 235 | 346 | 417 | 477 | 486 | 551 | 556 | 562 | 798 | 806 | 814 | 806 | 814 | 822 | 1342 | 1356 | 1369 | 1344 |
| | DuraPlate | 230 | 300 | 367 | 431 | 440 | 613 | 620 | 626 | 934 | 944 | 953 | 1081 | 1092 | 1103 | 1713 | 1730 | 1747 | 1736 | |
| | 6,30 | None | 134 | 179 | 225 | 226 | 230 | 251 | 253 | 256 | 322 | 325 | 328 | 319 | 322 | 325 | 534 | 539 | 544 | 467 |
| | | Shaft Fan | 166 | 241 | 308 | 315 | 321 | 416 | 420 | 424 | 581 | 587 | 593 | 638 | 645 | 651 | 1038 | 1048 | 1059 | 979 |
| | | Electric Fan | 226 | 330 | 415 | 474 | 484 | 545 | 550 | 555 | 782 | 789 | 797 | 803 | 811 | 819 | 1379 | 1392 | 1406 | 1330 |
| | DuraPlate | 222 | 286 | 366 | 429 | 438 | 606 | 612 | 618 | 913 | 922 | 931 | 1074 | 1085 | 1096 | 1744 | 1761 | 1779 | 1710 | |
| | 7,10 | None | 137 | 180 | 218 | 224 | 224 | 241 | 243 | 246 | 316 | 319 | 323 | 350 | 353 | 357 | 616 | 623 | 629 | 509 |
| | | Shaft Fan | 158 | 241 | 298 | 306 | 312 | 396 | 400 | 404 | 567 | 572 | 578 | 676 | 683 | 690 | 1087 | 1098 | 1108 | 1020 |
| | | Electric Fan | 228 | 328 | 401 | 460 | 469 | 517 | 523 | 528 | 759 | 767 | 775 | 843 | 851 | 859 | 1401 | 1415 | 1429 | 1366 |
| | DuraPlate | 224 | 285 | 353 | 416 | 425 | 575 | 581 | 587 | 886 | 894 | 903 | 1115 | 1126 | 1137 | 1805 | 1823 | 1841 | 1738 | |
| | 8,00 | None | 125 | 171 | 205 | 211 | 215 | 248 | 250 | 253 | 343 | 346 | 350 | 369 | 372 | 376 | 581 | 587 | 593 | 600 |
| | | Shaft Fan | 145 | 229 | 279 | 292 | 298 | 400 | 404 | 408 | 567 | 573 | 579 | 667 | 673 | 680 | 1027 | 1037 | 1047 | 1072 |
| | | Electric Fan | 211 | 312 | 376 | 439 | 448 | 519 | 524 | 529 | 774 | 782 | 790 | 819 | 827 | 835 | 1326 | 1339 | 1353 | 1388 |
| | DuraPlate | 183 | 240 | 320 | 340 | 346 | 473 | 478 | 483 | 725 | 732 | 739 | 845 | 853 | 862 | 1712 | 1729 | 1746 | 1797 | |
| 9,00 | None | 120 | 162 | 205 | 210 | 215 | 244 | 247 | 249 | 333 | 337 | 340 | 365 | 369 | 372 | 597 | 603 | 609 | 583 | |
| | Shaft Fan | 139 | 217 | 278 | 291 | 297 | 394 | 398 | 402 | 569 | 575 | 580 | 659 | 666 | 672 | 1041 | 1052 | 1062 | 1039 | |
| | Electric Fan | 202 | 295 | 373 | 435 | 444 | 511 | 516 | 521 | 748 | 756 | 763 | 809 | 817 | 825 | 1337 | 1351 | 1364 | 1345 | |
| DuraPlate | 175 | 228 | 318 | 338 | 344 | 466 | 471 | 476 | 701 | 708 | 715 | 835 | 843 | 852 | 1718 | 1735 | 1752 | 1741 | | |
| 10,0 | None | 122 | 163 | 197 | 203 | 207 | 230 | 233 | 235 | 322 | 325 | 329 | 384 | 387 | 391 | 571 | 576 | 582 | 595 | |
| | Shaft Fan | 141 | 216 | 267 | 280 | 286 | 371 | 375 | 378 | 548 | 554 | 559 | 682 | 689 | 696 | 976 | 985 | 995 | 1045 | |
| | Electric Fan | 204 | 293 | 358 | 419 | 427 | 480 | 485 | 490 | 720 | 727 | 735 | 833 | 842 | 850 | 1246 | 1259 | 1271 | 1346 | |
| DuraPlate | 178 | 227 | 306 | 325 | 332 | 438 | 443 | 447 | 675 | 681 | 688 | 859 | 868 | 876 | 1297 | 1310 | 1323 | 1734 | | |
| 11,2 | None | 105 | 141 | 168 | 183 | 187 | 212 | 214 | 217 | 286 | 289 | 292 | 325 | 328 | 331 | 534 | 539 | 544 | 562 | |
| | Shaft Fan | 122 | 189 | 230 | 253 | 258 | 341 | 345 | 348 | 488 | 493 | 498 | 573 | 578 | 584 | 917 | 926 | 936 | 968 | |
| | Electric Fan | 178 | 258 | 309 | 379 | 387 | 442 | 447 | 451 | 644 | 651 | 657 | 700 | 707 | 714 | 1175 | 1187 | 1199 | 1241 | |
| DuraPlate | 150 | 195 | 262 | 293 | 298 | 346 | 350 | 353 | 632 | 638 | 644 | 760 | 767 | 775 | 1224 | 1236 | 1248 | 1293 | | |
| 12,5 | None | 100 | 133 | 168 | 182 | 186 | 209 | 211 | 213 | 277 | 280 | 282 | 320 | 323 | 326 | 544 | 549 | 555 | 541 | |
| | Shaft Fan | 117 | 179 | 229 | 252 | 257 | 336 | 339 | 343 | 472 | 477 | 482 | 565 | 570 | 576 | 926 | 935 | 945 | 934 | |
| | Electric Fan | 171 | 245 | 307 | 376 | 383 | 435 | 439 | 444 | 622 | 628 | 635 | 690 | 697 | 704 | 1182 | 1194 | 1205 | 1198 | |
| DuraPlate | 143 | 185 | 261 | 291 | 297 | 341 | 344 | 348 | 610 | 616 | 622 | 749 | 757 | 764 | 1230 | 1242 | 1255 | 1248 | | |
| 14,0 | None | 102 | 134 | 162 | 176 | 179 | 192 | 194 | 196 | 267 | 270 | 272 | 336 | 336 | 340 | 524 | 530 | 535 | 546 | |
| | Shaft Fan | 118 | 179 | 220 | 242 | 247 | 307 | 311 | 314 | 454 | 459 | 464 | 582 | 587 | 593 | 878 | 887 | 896 | 934 | |
| | Electric Fan | 172 | 243 | 296 | 361 | 369 | 398 | 402 | 406 | 598 | 604 | 610 | 708 | 715 | 722 | 1114 | 1125 | 1137 | 1194 | |
| DuraPlate | 145 | 184 | 251 | 280 | 285 | 312 | 315 | 318 | 587 | 593 | 599 | 767 | 775 | 783 | 965 | 974 | 984 | 1243 | | |
| 16,0 | None | 90 | 122 | 146 | 159 | 162 | 178 | 180 | 182 | 265 | 268 | 271 | 291 | 294 | 297 | 488 | 493 | 498 | 518 | |
| | Shaft Fan | 105 | 164 | 199 | 219 | 223 | 287 | 290 | 293 | 448 | 453 | 457 | 507 | 512 | 517 | 823 | 832 | 840 | 873 | |
| | Electric Fan | 154 | 225 | 268 | 327 | 333 | 373 | 377 | 380 | 589 | 595 | 601 | 617 | 623 | 629 | 1048 | 1059 | 1069 | 1111 | |
| DuraPlate | 118 | 168 | 203 | 224 | 229 | 256 | 259 | 261 | 481 | 486 | 491 | 550 | 555 | 561 | 906 | 915 | 924 | 960 | | |
| 18,0 | None | 87 | 115 | 146 | 158 | 162 | 176 | 177 | 179 | 256 | 258 | 261 | 287 | 290 | 293 | 496 | 501 | 506 | 497 | |
| | Shaft Fan | 101 | 155 | 199 | 218 | 222 | 283 | 285 | 288 | 432 | 436 | 441 | 499 | 504 | 509 | 831 | 839 | 847 | 840 | |
| | Electric Fan | 147 | 213 | 266 | 324 | 331 | 367 | 371 | 374 | 567 | 573 | 578 | 608 | 614 | 620 | 1054 | 1064 | 1075 | 1070 | |
| DuraPlate | 113 | 159 | 202 | 223 | 228 | 252 | 255 | 257 | 464 | 468 | 473 | 542 | 548 | 553 | 912 | 922 | 931 | 924 | | |
| 20,0 | None | 88 | 116 | 141 | 152 | 155 | 165 | 167 | 168 | 245 | 248 | 250 | 298 | 301 | 304 | 486 | 491 | 496 | 499 | |
| | Shaft Fan | 102 | 155 | 191 | 210 | 214 | 265 | 268 | 271 | 413 | 417 | 422 | 514 | 519 | 524 | 799 | 807 | 815 | 838 | |
| | Electric Fan | 149 | 211 | 256 | 312 | 318 | 344 | 348 | 351 | 542 | 548 | 553 | 623 | 630 | 636 | 1007 | 1017 | 1027 | 1065 | |
| DuraPlate | 115 | 158 | 194 | 215 | 219 | 237 | 239 | 242 | 444 | 448 | 453 | 557 | 562 | 568 | 1011 | 1021 | 1031 | 921 | | |
| 22,4 | None | 84 | 112 | 133 | 142 | 145 | 182 | 184 | 186 | 238 | 240 | 243 | 307 | 310 | 313 | 452 | 456 | 461 | 481 | |
| | Shaft Fan | 98 | 153 | 179 | 194 | 198 | 286 | 289 | 292 | 392 | 396 | 400 | 508 | 513 | 518 | 748 | 755 | 763 | 794 | |
| | Electric Fan | 143 | 213 | 239 | 286 | 292 | 365 | 369 | 372 | 509 | 514 | 519 | 606 | 612 | 618 | 946 | 955 | 965 | 1003 | |
| DuraPlate | 109 | 148 | 168 | 182 | 185 | 235 | 238 | 240 | 367 | 371 | 375 | 477 | 482 | 487 | 950 | 959 | 969 | 1007 | | |
| 25,0 | None | 80 | 107 | 133 | 142 | 144 | 180 | 182 | 183 | 230 | 232 | 234 | 301 | 304 | 307 | 494 | 499 | 504 | 460 | |
| | Shaft Fan | 94 | 146 | 179 | 193 | 197 | 282 | 285 | 288 | 379 | 383 | 386 | 500 | 505 | 510 | 826 | 834 | 843 | 763 | |
| | Electric Fan | 137 | 203 | 237 | 284 | 290 | 361 | 364 | 368 | 492 | 497 | 502 | 597 | 603 | 609 | 1049 | 1060 | 1070 | 965 | |
| DuraPlate | 104 | 137 | 167 | 181 | 185 | 232 | 235 | 237 | 355 | 358 | 362 | 469 | 474 | 479 | 1054 | 1064 | 1075 | 969 | | |
| 28,0 | None | 82 | 107 | 128 | 136 | 139 | 168 | 169 | 171 | 221 | 223 | 225 | 313 | 316 | 319 | | | | 496 | |
| | Shaft Fan | 95 | 145 | 172 | 186 | 190 | 263 | 266 | 269 | 364 | 368 | 371 | 514 | 519 | 524 | | | | 832 | |
| | Electric Fan | 139 | 200 | 229 | 274 | 279 | 337 | 340 | 344 | 473 | 477 | 482 | 612 | 618 | 624 | | | | 1058 | |
| DuraPlate | 106 | 136 | 161 | 174 | 178 | 217 | 219 | 221 | 341 | 344 | 348 | 483 | 488 | 493 | | | | 1063 | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP2 Parallel Shaft

Basic Thermal Ratings ★ – kW/Double Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|---------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1200 | 5,00 | None | * | * | * | | | * | * | * | | | |
| | | Shaft Fan | 1324 | 1338 | 1351 | | | * | * | * | | | |
| | | Electric Fan | 1784 | 1802 | 1820 | | | 1344 | 1358 | 1371 | | | |
| | | DuraPlate | 2685 | 2712 | 2738 | | | 3027 | 3057 | 3087 | | | |
| | 5,60 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 1388 | 1402 | 1416 | 1140 | 1163 | 1016 | 1027 | 1037 | * | * | * |
| | | Electric Fan | 1830 | 1848 | 1867 | 1602 | 1634 | 1582 | 1598 | 1613 | * | * | * |
| | | DuraPlate | 2692 | 2719 | 2746 | 2511 | 2561 | 3174 | 3206 | 3238 | 2411 | 2435 | 2459 |
| | 6,30 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 1359 | 1373 | 1387 | 1259 | 1284 | 1095 | 1106 | 1117 | 613 | 619 | 625 |
| | | Electric Fan | 1786 | 1804 | 1822 | 1707 | 1741 | 1642 | 1658 | 1675 | 1151 | 1163 | 1174 |
| | | DuraPlate | 2621 | 2647 | 2673 | 2582 | 2634 | 3182 | 3214 | 3245 | 2741 | 2768 | 2795 |
| | 7,10 | None | 642 | 648 | 655 | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 1480 | 1494 | 1509 | 1253 | 1278 | 1769 | 1787 | 1805 | 755 | 763 | 770 |
| | | Electric Fan | 1861 | 1879 | 1898 | 1685 | 1718 | 2283 | 2306 | 2329 | 1284 | 1297 | 1309 |
| | | DuraPlate | 2048 | 2069 | 2089 | 2531 | 2581 | 2756 | 2783 | 2811 | 2821 | 2849 | 2878 |
| | 8,00 | None | 656 | 663 | 669 | 586 | 597 | * | * | * | * | * | * |
| | | Shaft Fan | 1469 | 1484 | 1498 | 1417 | 1445 | 1749 | 1767 | 1784 | 1576 | 1591 | 1607 |
| | | Electric Fan | 1836 | 1854 | 1873 | 1798 | 1834 | 2238 | 2260 | 2282 | 2089 | 2110 | 2131 |
| | | DuraPlate | 2016 | 2037 | 2057 | 1986 | 2026 | 2687 | 2714 | 2741 | 2563 | 2589 | 2615 |
| 9,00 | None | 629 | 636 | 642 | 622 | 634 | * | * | * | * | * | * | |
| | Shaft Fan | 1413 | 1427 | 1442 | 1438 | 1467 | 1708 | 1725 | 1742 | 1606 | 1622 | 1638 | |
| | Electric Fan | 1769 | 1787 | 1805 | 1808 | 1844 | 2181 | 2203 | 2225 | 2093 | 2114 | 2135 | |
| | DuraPlate | 1945 | 1964 | 1984 | 1990 | 2030 | 2618 | 2644 | 2670 | 2543 | 2569 | 2594 | |
| 10,0 | None | 652 | 659 | 665 | 601 | 613 | 793 | 801 | 809 | * | * | * | |
| | Shaft Fan | 1370 | 1384 | 1398 | 1388 | 1416 | 1850 | 1869 | 1887 | 1587 | 1603 | 1619 | |
| | Electric Fan | 1697 | 1714 | 1731 | 1747 | 1782 | 2278 | 2301 | 2323 | 2058 | 2079 | 2099 | |
| | DuraPlate | 1525 | 1540 | 1555 | 1924 | 1962 | 3396 | 3430 | 3464 | 2495 | 2520 | 2545 | |
| 11,2 | None | 651 | 658 | 664 | 623 | 636 | 764 | 772 | 780 | 730 | 738 | 745 | |
| | Shaft Fan | 1348 | 1362 | 1375 | 1336 | 1363 | 1769 | 1787 | 1805 | 1779 | 1797 | 1815 | |
| | Electric Fan | 1663 | 1680 | 1697 | 1662 | 1695 | 2178 | 2200 | 2221 | 2207 | 2229 | 2251 | |
| | DuraPlate | 1498 | 1513 | 1527 | 1491 | 1520 | 3249 | 3282 | 3314 | 3329 | 3362 | 3395 | |
| 12,5 | None | 620 | 627 | 633 | 639 | 652 | 735 | 742 | 749 | 715 | 722 | 730 | |
| | Shaft Fan | 1295 | 1308 | 1321 | 1339 | 1365 | 1706 | 1723 | 1740 | 1711 | 1728 | 1745 | |
| | Electric Fan | 1601 | 1617 | 1633 | 1655 | 1688 | 2103 | 2124 | 2145 | 2119 | 2140 | 2161 | |
| | DuraPlate | 1440 | 1454 | 1468 | 1489 | 1518 | 3149 | 3181 | 3212 | 3191 | 3223 | 3255 | |
| 14,0 | None | 591 | 597 | 603 | 611 | 623 | 828 | 837 | 845 | 693 | 700 | 707 | |
| | Shaft Fan | 1193 | 1205 | 1217 | 1287 | 1313 | 1734 | 1751 | 1769 | 1655 | 1672 | 1689 | |
| | Electric Fan | 1466 | 1481 | 1496 | 1595 | 1627 | 2099 | 2120 | 2141 | 2051 | 2072 | 2092 | |
| | DuraPlate | 1585 | 1600 | 1616 | 1433 | 1462 | 2407 | 2431 | 2455 | 3098 | 3129 | 3160 | |
| 16,0 | None | 586 | 592 | 598 | 574 | 585 | 782 | 789 | 797 | 803 | 811 | 819 | |
| | Shaft Fan | 1171 | 1183 | 1194 | 1171 | 1195 | 1643 | 1660 | 1676 | 1703 | 1720 | 1737 | |
| | Electric Fan | 1435 | 1449 | 1464 | 1444 | 1473 | 1992 | 2012 | 2032 | 2067 | 2088 | 2108 | |
| | DuraPlate | 1549 | 1565 | 1580 | 1562 | 1593 | 2288 | 2310 | 2333 | 2376 | 2400 | 2423 | |
| 18,0 | None | 558 | 563 | 569 | 582 | 594 | 745 | 753 | 760 | 758 | 766 | 773 | |
| | Shaft Fan | 1124 | 1136 | 1147 | 1168 | 1191 | 1579 | 1595 | 1611 | 1614 | 1630 | 1646 | |
| | Electric Fan | 1382 | 1396 | 1410 | 1433 | 1462 | 1919 | 1938 | 1957 | 1961 | 1981 | 2001 | |
| | DuraPlate | 1493 | 1508 | 1523 | 1548 | 1579 | 2207 | 2229 | 2251 | 2257 | 2279 | 2302 | |
| 20,0 | None | 566 | 571 | 577 | 555 | 566 | 783 | 791 | 799 | 724 | 732 | 739 | |
| | Shaft Fan | 1125 | 1137 | 1148 | 1123 | 1145 | 1625 | 1642 | 1658 | 1552 | 1568 | 1583 | |
| | Electric Fan | 1385 | 1398 | 1412 | 1381 | 1409 | 1973 | 1993 | 2012 | 1891 | 1909 | 1928 | |
| | DuraPlate | 1236 | 1249 | 1261 | 1493 | 1523 | 1972 | 1992 | 2011 | 2178 | 2200 | 2222 | |
| 22,4 | None | 572 | 577 | 583 | 551 | 562 | 767 | 774 | 782 | 775 | 782 | 790 | |
| | Shaft Fan | 1176 | 1188 | 1200 | 1106 | 1128 | 1592 | 1608 | 1624 | 1611 | 1627 | 1643 | |
| | Electric Fan | 1395 | 1409 | 1423 | 1364 | 1391 | 1933 | 1952 | 1972 | 1957 | 1977 | 1996 | |
| | DuraPlate | 1245 | 1257 | 1270 | 1216 | 1240 | 1806 | 1824 | 1842 | 1956 | 1976 | 1995 | |
| 25,0 | None | 540 | 546 | 551 | 572 | 583 | 742 | 749 | 756 | 761 | 769 | 776 | |
| | Shaft Fan | 1125 | 1136 | 1147 | 1182 | 1205 | 1538 | 1553 | 1569 | 1580 | 1596 | 1611 | |
| | Electric Fan | 1338 | 1351 | 1365 | 1404 | 1432 | 1869 | 1887 | 1906 | 1920 | 1939 | 1958 | |
| | DuraPlate | 1191 | 1203 | 1215 | 1252 | 1277 | 1746 | 1763 | 1781 | 1793 | 1811 | 1829 | |
| 28,0 | None | | | | 542 | 552 | | | | 724 | 731 | 738 | |
| | Shaft Fan | | | | 1131 | 1154 | | | | 1513 | 1528 | 1544 | |
| | Electric Fan | | | | 1348 | 1374 | | | | 1843 | 1861 | 1879 | |
| | DuraPlate | | | | 1199 | 1223 | | | | 1720 | 1737 | 1754 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP2 Parallel Shaft

Basic Thermal Ratings ★ – kW/Double Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | | |
|-----------|--------------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|--|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 | |
| 1000 | 5,00 | None | | | | | | | | | | | | | | | 611 | 618 | 624 | | |
| | | Shaft Fan | | | | | | | | | | | | | | | | 1001 | 1011 | 1021 | |
| | | Electric Fan | | | | | | | | | | | | | | | | 1466 | 1481 | 1496 | |
| | 5,60 | DuraPlate | | | | | | | | | | | | | | | | 1623 | 1639 | 1656 | |
| | | None | 134 | 179 | 216 | 219 | 223 | 255 | 257 | 260 | 337 | 340 | 344 | 366 | 370 | 373 | 587 | 592 | 598 | 583 | |
| | | Shaft Fan | 146 | 221 | 269 | 276 | 282 | 373 | 377 | 380 | 531 | 536 | 541 | 604 | 610 | 616 | 956 | 965 | 975 | 973 | |
| | 6,30 | Electric Fan | 225 | 330 | 398 | 457 | 466 | 540 | 546 | 551 | 790 | 798 | 805 | 842 | 850 | 858 | 1398 | 1412 | 1426 | 1441 | |
| | | DuraPlate | 206 | 267 | 328 | 380 | 388 | 540 | 546 | 551 | 818 | 826 | 834 | 974 | 983 | 993 | 1547 | 1563 | 1578 | 1600 | |
| | | None | 128 | 170 | 216 | 219 | 223 | 252 | 255 | 257 | 331 | 335 | 338 | 364 | 368 | 372 | 612 | 618 | 624 | 577 | |
| | 7,10 | Shaft Fan | 141 | 210 | 269 | 276 | 282 | 368 | 372 | 376 | 518 | 523 | 529 | 599 | 605 | 611 | 980 | 990 | 1000 | 954 | |
| | | Electric Fan | 216 | 313 | 395 | 454 | 463 | 532 | 538 | 543 | 768 | 775 | 783 | 833 | 842 | 850 | 1418 | 1432 | 1447 | 1407 | |
| | | DuraPlate | 198 | 254 | 326 | 379 | 386 | 532 | 538 | 543 | 795 | 803 | 811 | 964 | 973 | 983 | 1566 | 1581 | 1597 | 1560 | |
| | 8,00 | None | 130 | 171 | 209 | 212 | 217 | 239 | 242 | 244 | 323 | 326 | 329 | 389 | 392 | 396 | 631 | 637 | 643 | 601 | |
| | | Shaft Fan | 143 | 210 | 260 | 267 | 273 | 349 | 352 | 356 | 503 | 508 | 513 | 628 | 634 | 640 | 972 | 981 | 991 | 975 | |
| | | Electric Fan | 218 | 311 | 381 | 439 | 448 | 503 | 508 | 513 | 743 | 750 | 758 | 864 | 873 | 881 | 1375 | 1389 | 1402 | 1420 | |
| | 9,00 | DuraPlate | 200 | 253 | 315 | 366 | 374 | 503 | 508 | 513 | 769 | 777 | 784 | 995 | 1005 | 1015 | 1567 | 1582 | 1598 | 1570 | |
| | | None | 119 | 162 | 194 | 201 | 205 | 240 | 243 | 245 | 334 | 338 | 341 | 375 | 379 | 383 | 591 | 597 | 603 | 619 | |
| | | Shaft Fan | 131 | 199 | 242 | 253 | 258 | 347 | 351 | 354 | 510 | 515 | 520 | 592 | 598 | 604 | 913 | 922 | 931 | 961 | |
| | 10,0 | Electric Fan | 201 | 295 | 355 | 416 | 424 | 499 | 504 | 509 | 742 | 749 | 757 | 807 | 815 | 823 | 1296 | 1309 | 1322 | 1367 | |
| | | DuraPlate | 164 | 217 | 320 | 302 | 308 | 417 | 422 | 426 | 631 | 638 | 644 | 750 | 758 | 765 | 1480 | 1494 | 1509 | 1561 | |
| | | None | 114 | 153 | 194 | 200 | 204 | 237 | 239 | 241 | 324 | 327 | 330 | 370 | 374 | 378 | 603 | 609 | 615 | 597 | |
| | 11,2 | Shaft Fan | 125 | 188 | 241 | 252 | 257 | 342 | 345 | 348 | 492 | 497 | 502 | 584 | 589 | 595 | 924 | 934 | 943 | 927 | |
| | | Electric Fan | 192 | 279 | 352 | 412 | 421 | 490 | 495 | 500 | 716 | 723 | 730 | 796 | 804 | 812 | 1304 | 1317 | 1330 | 1320 | |
| | | DuraPlate | 157 | 205 | 318 | 300 | 306 | 410 | 415 | 419 | 609 | 616 | 622 | 740 | 747 | 755 | 1484 | 1499 | 1514 | 1507 | |
| | 12,5 | None | 116 | 154 | 186 | 193 | 197 | 222 | 224 | 227 | 312 | 315 | 318 | 387 | 391 | 395 | 559 | 564 | 570 | 604 | |
| | | Shaft Fan | 127 | 188 | 231 | 242 | 247 | 321 | 324 | 327 | 474 | 479 | 483 | 604 | 610 | 616 | 851 | 859 | 868 | 930 | |
| | | Electric Fan | 194 | 277 | 339 | 397 | 404 | 460 | 464 | 469 | 688 | 695 | 702 | 817 | 825 | 834 | 1197 | 1209 | 1221 | 1316 | |
| | 14,0 | DuraPlate | 159 | 205 | 306 | 289 | 294 | 385 | 389 | 393 | 586 | 592 | 598 | 761 | 769 | 776 | 1129 | 1140 | 1151 | 1500 | |
| None | | 99 | 132 | 158 | 173 | 176 | 203 | 205 | 207 | 273 | 276 | 279 | 317 | 321 | 324 | 521 | 526 | 531 | 551 | | |
| Shaft Fan | | 109 | 163 | 198 | 217 | 222 | 293 | 296 | 299 | 418 | 422 | 426 | 496 | 501 | 506 | 797 | 805 | 813 | 844 | | |
| 16,0 | Electric Fan | 169 | 244 | 291 | 357 | 364 | 422 | 426 | 430 | 611 | 617 | 623 | 675 | 682 | 689 | 1127 | 1138 | 1149 | 1193 | | |
| | DuraPlate | 135 | 175 | 231 | 258 | 263 | 309 | 312 | 315 | 544 | 549 | 555 | 659 | 666 | 672 | 1061 | 1072 | 1083 | 1124 | | |
| | None | 95 | 125 | 158 | 172 | 175 | 200 | 202 | 204 | 264 | 267 | 270 | 312 | 315 | 319 | 530 | 535 | 540 | 530 | | |
| 18,0 | Shaft Fan | 104 | 154 | 197 | 216 | 220 | 289 | 291 | 294 | 404 | 408 | 412 | 489 | 494 | 498 | 806 | 814 | 822 | 812 | | |
| | Electric Fan | 162 | 231 | 289 | 354 | 361 | 415 | 419 | 423 | 590 | 596 | 601 | 665 | 672 | 678 | 1132 | 1144 | 1155 | 1150 | | |
| | DuraPlate | 130 | 166 | 230 | 257 | 262 | 303 | 306 | 310 | 525 | 530 | 535 | 649 | 656 | 662 | 1068 | 1078 | 1089 | 1083 | | |
| 20,0 | None | 97 | 126 | 153 | 166 | 169 | 183 | 187 | 187 | 255 | 257 | 260 | 325 | 328 | 331 | 501 | 506 | 511 | 533 | | |
| | Shaft Fan | 106 | 154 | 190 | 208 | 212 | 264 | 267 | 270 | 388 | 392 | 396 | 504 | 509 | 514 | 756 | 764 | 771 | 812 | | |
| | Electric Fan | 164 | 229 | 279 | 341 | 347 | 379 | 383 | 387 | 567 | 573 | 578 | 682 | 689 | 696 | 1058 | 1069 | 1079 | 1144 | | |
| 22,4 | DuraPlate | 131 | 166 | 222 | 247 | 252 | 278 | 281 | 283 | 505 | 510 | 515 | 666 | 673 | 679 | 846 | 854 | 863 | 1079 | | |
| | None | 84 | 115 | 137 | 149 | 152 | 170 | 171 | 173 | 251 | 253 | 256 | 280 | 283 | 285 | 466 | 471 | 475 | 495 | | |
| | Shaft Fan | 92 | 141 | 171 | 187 | 191 | 246 | 248 | 251 | 381 | 385 | 389 | 435 | 439 | 443 | 707 | 714 | 721 | 751 | | |
| 25,0 | Electric Fan | 144 | 211 | 252 | 307 | 314 | 354 | 358 | 362 | 555 | 561 | 567 | 590 | 595 | 601 | 994 | 1004 | 1014 | 1054 | | |
| | DuraPlate | 105 | 150 | 181 | 200 | 204 | 232 | 234 | 236 | 420 | 424 | 428 | 484 | 489 | 493 | 792 | 800 | 808 | 841 | | |
| | None | 80 | 108 | 137 | 149 | 152 | 167 | 169 | 170 | 242 | 244 | 247 | 275 | 278 | 281 | 473 | 478 | 483 | 475 | | |
| 28,0 | Shaft Fan | 88 | 134 | 171 | 187 | 190 | 242 | 244 | 246 | 367 | 371 | 374 | 428 | 432 | 437 | 714 | 721 | 728 | 721 | | |
| | Electric Fan | 138 | 200 | 250 | 305 | 311 | 349 | 352 | 355 | 535 | 540 | 545 | 581 | 587 | 593 | 999 | 1009 | 1019 | 1014 | | |
| | DuraPlate | 100 | 142 | 181 | 199 | 203 | 228 | 230 | 232 | 404 | 408 | 412 | 476 | 481 | 486 | 799 | 807 | 815 | 808 | | |
| 30,0 | None | 82 | 109 | 132 | 143 | 146 | 157 | 158 | 160 | 232 | 234 | 236 | 286 | 289 | 292 | 459 | 463 | 468 | 476 | | |
| | Shaft Fan | 90 | 133 | 164 | 179 | 183 | 227 | 229 | 231 | 351 | 355 | 358 | 441 | 446 | 450 | 684 | 691 | 698 | 720 | | |
| | Electric Fan | 139 | 198 | 241 | 293 | 299 | 327 | 330 | 333 | 511 | 516 | 521 | 596 | 602 | 608 | 949 | 959 | 968 | 1010 | | |
| 35,0 | DuraPlate | 102 | 142 | 174 | 191 | 195 | 214 | 216 | 218 | 387 | 391 | 395 | 490 | 495 | 500 | 869 | 878 | 887 | 806 | | |
| | None | 80 | 106 | 124 | 133 | 136 | 170 | 172 | 174 | 223 | 225 | 228 | 289 | 292 | 294 | 425 | 430 | 434 | 453 | | |
| | Shaft Fan | 88 | 132 | 154 | 166 | 169 | 242 | 245 | 247 | 333 | 337 | 340 | 433 | 437 | 441 | 639 | 645 | 651 | 679 | | |
| 40,0 | Electric Fan | 136 | 202 | 224 | 269 | 274 | 342 | 346 | 349 | 479 | 483 | 488 | 571 | 576 | 582 | 891 | 900 | 909 | 945 | | |
| | DuraPlate | 99 | 134 | 181 | N/A | N/A | N/A | N/A | N/A | 324 | 327 | 330 | 422 | 426 | 431 | 815 | 823 | 831 | 865 | | |
| | None | 76 | 101 | 124 | 133 | 135 | 168 | 170 | 171 | 215 | 217 | 220 | 283 | 286 | 289 | 465 | 469 | 474 | 434 | | |
| 45,0 | Shaft Fan | 84 | 125 | 153 | 165 | 169 | 239 | 242 | 244 | 322 | 325 | 328 | 425 | 430 | 434 | 703 | 710 | 717 | 651 | | |
| | Electric Fan | 130 | 192 | 222 | 267 | 272 | 338 | 341 | 345 | 462 | 467 | 471 | 562 | 568 | 573 | 987 | 997 | 1007 | 909 | | |
| | DuraPlate | 95 | 124 | 181 | N/A | N/A | N/A | N/A | N/A | 313 | 316 | 319 | 415 | 419 | 423 | 901 | 910 | 919 | 831 | | |
| 50,0 | None | 78 | 101 | 120 | 128 | 130 | 157 | 158 | 160 | 207 | 209 | 211 | 295 | 298 | 301 | | | | 467 | | |
| | Shaft Fan | 85 | 125 | 148 | 159 | 162 | 223 | 225 | 228 | 309 | 312 | 315 | 439 | 443 | 448 | | | | 707 | | |
| | Electric Fan | 132 | 190 | 215 | 257 | 262 | 316 | 319 | 322 | 444 | 448 | 453 | 576 | 582 | 588 | | | | 995 | | |
| 56,0 | DuraPlate | 97 | 124 | 174 | N/A | N/A | N/A | N/A | N/A | 300 | 303 | 306 | 428 | 433 | 437 | | | | 908 | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP2 Parallel Shaft

Basic Thermal Ratings ★ – kW/Double Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|---------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1000 | 5,00 | None | 588 | 594 | 600 | | | * | * | * | | | |
| | | Shaft Fan | 1329 | 1343 | 1356 | | | 1304 | 1317 | 1330 | | | |
| | | Electric Fan | 1932 | 1952 | 1971 | | | 2140 | 2161 | 2182 | | | |
| | | DuraPlate | 2418 | 2442 | 2467 | | | 3122 | 3154 | 3185 | | | |
| | 5,60 | None | 631 | 637 | 644 | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 1352 | 1366 | 1379 | 1220 | 1244 | 1397 | 1410 | 1424 | 967 | 977 | 987 |
| | | Electric Fan | 1933 | 1952 | 1972 | 1824 | 1860 | 2189 | 2211 | 2233 | 1792 | 1810 | 1827 |
| | | DuraPlate | 2399 | 2423 | 2447 | 2312 | 2358 | 3121 | 3152 | 3184 | 2780 | 2808 | 2835 |
| | 6,30 | None | 615 | 621 | 628 | 560 | 571 | * | * | * | * | * | * |
| | | Shaft Fan | 1309 | 1322 | 1335 | 1283 | 1309 | 1402 | 1416 | 1430 | 1153 | 1165 | 1176 |
| | | Electric Fan | 1870 | 1889 | 1908 | 1870 | 1907 | 2168 | 2190 | 2211 | 1939 | 1958 | 1978 |
| | | DuraPlate | 2322 | 2346 | 2369 | 2341 | 2388 | 3071 | 3102 | 3133 | 2874 | 2902 | 2931 |
| | 7,10 | None | 694 | 701 | 708 | 557 | 568 | 793 | 801 | 809 | * | * | * |
| | | Shaft Fan | 1321 | 1334 | 1347 | 1252 | 1277 | 1734 | 1752 | 1769 | 1199 | 1211 | 1223 |
| | | Electric Fan | 1826 | 1844 | 1863 | 1819 | 1855 | 2444 | 2469 | 2493 | 1959 | 1978 | 1998 |
| | | DuraPlate | 1791 | 1809 | 1827 | 2275 | 2321 | 2541 | 2567 | 2592 | 2863 | 2892 | 2921 |
| | 8,00 | None | 697 | 704 | 711 | 655 | 668 | 785 | 793 | 801 | 690 | 696 | 703 |
| | | Shaft Fan | 1305 | 1319 | 1332 | 1277 | 1303 | 1678 | 1695 | 1712 | 1619 | 1635 | 1652 |
| | | Electric Fan | 1793 | 1811 | 1829 | 1782 | 1818 | 2354 | 2377 | 2401 | 2329 | 2352 | 2376 |
| | | DuraPlate | 1760 | 1777 | 1795 | 1747 | 1782 | 2446 | 2471 | 2495 | 2426 | 2450 | 2474 |
| | 9,00 | None | 665 | 672 | 678 | 678 | 692 | 762 | 770 | 777 | 707 | 714 | 721 |
| | | Shaft Fan | 1252 | 1264 | 1277 | 1289 | 1314 | 1623 | 1640 | 1656 | 1589 | 1605 | 1621 |
| | | Electric Fan | 1725 | 1742 | 1759 | 1779 | 1815 | 2279 | 2302 | 2324 | 2263 | 2286 | 2309 |
| | | DuraPlate | 1692 | 1709 | 1726 | 1746 | 1780 | 2368 | 2392 | 2416 | 2356 | 2379 | 2403 |
| | 10,0 | None | 650 | 656 | 663 | 650 | 663 | 858 | 866 | 875 | 697 | 704 | 711 |
| | | Shaft Fan | 1188 | 1200 | 1212 | 1238 | 1263 | 1652 | 1669 | 1685 | 1547 | 1563 | 1578 |
| | | Electric Fan | 1623 | 1639 | 1655 | 1714 | 1749 | 2246 | 2268 | 2291 | 2201 | 2223 | 2245 |
| | | DuraPlate | 1331 | 1344 | 1357 | 1682 | 1715 | 2901 | 2930 | 2959 | 2290 | 2313 | 2336 |
| 11,2 | None | 646 | 652 | 659 | 627 | 640 | 816 | 824 | 832 | 816 | 824 | 832 | |
| | Shaft Fan | 1169 | 1180 | 1192 | 1161 | 1185 | 1571 | 1587 | 1603 | 1605 | 1621 | 1637 | |
| | Electric Fan | 1588 | 1604 | 1620 | 1595 | 1627 | 2138 | 2160 | 2181 | 2198 | 2220 | 2242 | |
| | DuraPlate | 1306 | 1320 | 1333 | 1303 | 1329 | 2766 | 2793 | 2821 | 2854 | 2882 | 2911 | |
| 12,5 | None | 614 | 620 | 627 | 639 | 651 | 780 | 788 | 796 | 781 | 789 | 797 | |
| | Shaft Fan | 1120 | 1131 | 1142 | 1163 | 1186 | 1511 | 1526 | 1541 | 1530 | 1545 | 1561 | |
| | Electric Fan | 1528 | 1543 | 1558 | 1585 | 1616 | 2062 | 2082 | 2103 | 2095 | 2116 | 2137 | |
| | DuraPlate | 1253 | 1266 | 1278 | 1301 | 1327 | 2674 | 2701 | 2727 | 2723 | 2750 | 2777 | |
| 14,0 | None | 568 | 574 | 580 | 609 | 621 | 813 | 821 | 829 | 750 | 758 | 765 | |
| | Shaft Fan | 1020 | 1030 | 1040 | 1116 | 1138 | 1493 | 1508 | 1523 | 1474 | 1488 | 1503 | |
| | Electric Fan | 1384 | 1398 | 1412 | 1525 | 1556 | 2000 | 2020 | 2040 | 2023 | 2043 | 2064 | |
| | DuraPlate | 1346 | 1360 | 1373 | 1250 | 1275 | 2048 | 2069 | 2089 | 2635 | 2661 | 2688 | |
| 16,0 | None | 563 | 568 | 574 | 553 | 564 | 765 | 772 | 780 | 792 | 800 | 808 | |
| | Shaft Fan | 1002 | 1012 | 1022 | 1000 | 1021 | 1411 | 1425 | 1440 | 1468 | 1482 | 1497 | |
| | Electric Fan | 1354 | 1368 | 1381 | 1364 | 1391 | 1896 | 1915 | 1934 | 1974 | 1994 | 2014 | |
| | DuraPlate | 1318 | 1331 | 1344 | 1326 | 1353 | 1942 | 1962 | 1981 | 2022 | 2042 | 2062 | |
| 18,0 | None | 535 | 540 | 546 | 560 | 571 | 728 | 735 | 743 | 745 | 752 | 760 | |
| | Shaft Fan | 960 | 970 | 979 | 1000 | 1020 | 1354 | 1367 | 1381 | 1386 | 1400 | 1414 | |
| | Electric Fan | 1304 | 1317 | 1330 | 1354 | 1381 | 1826 | 1844 | 1862 | 1870 | 1888 | 1907 | |
| | DuraPlate | 1268 | 1280 | 1293 | 1317 | 1343 | 1870 | 1889 | 1908 | 1916 | 1935 | 1954 | |
| 20,0 | None | 532 | 537 | 542 | 533 | 544 | 752 | 760 | 767 | 710 | 718 | 725 | |
| | Shaft Fan | 952 | 962 | 971 | 959 | 978 | 1385 | 1399 | 1413 | 1331 | 1344 | 1357 | |
| | Electric Fan | 1299 | 1312 | 1325 | 1304 | 1330 | 1870 | 1889 | 1908 | 1801 | 1819 | 1837 | |
| | DuraPlate | 1056 | 1067 | 1077 | 1268 | 1293 | 1682 | 1699 | 1716 | 1846 | 1864 | 1882 | |
| 22,4 | None | 537 | 543 | 548 | 518 | 528 | 734 | 742 | 749 | 740 | 748 | 755 | |
| | Shaft Fan | 959 | 969 | 979 | 934 | 953 | 1354 | 1368 | 1381 | 1368 | 1382 | 1396 | |
| | Electric Fan | 1307 | 1320 | 1333 | 1279 | 1305 | 1830 | 1848 | 1866 | 1851 | 1870 | 1888 | |
| | DuraPlate | 1064 | 1074 | 1085 | 1038 | 1059 | 1547 | 1562 | 1578 | 1663 | 1680 | 1697 | |
| 25,0 | None | 507 | 512 | 517 | 538 | 549 | 704 | 711 | 718 | 724 | 731 | 739 | |
| | Shaft Fan | 914 | 923 | 933 | 964 | 983 | 1302 | 1315 | 1328 | 1339 | 1352 | 1365 | |
| | Electric Fan | 1252 | 1265 | 1277 | 1315 | 1342 | 1762 | 1780 | 1798 | 1812 | 1830 | 1848 | |
| | DuraPlate | 1016 | 1026 | 1036 | 1069 | 1091 | 1488 | 1503 | 1518 | 1530 | 1545 | 1561 | |
| 28,0 | None | | | | 509 | 519 | | | | 688 | 695 | 702 | |
| | Shaft Fan | | | | 920 | 938 | | | | 1280 | 1293 | 1305 | |
| | Electric Fan | | | | 1261 | 1287 | | | | 1738 | 1756 | 1773 | |
| | DuraPlate | | | | 1022 | 1042 | | | | 1465 | 1480 | 1494 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP2 Parallel Shaft

Basic Thermal Ratings ★ – kW/Double Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | | |
|---------------------------|---------------------------|---------------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|--|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 | |
| 900 | 5,00 | None | | | | | | | | | | | | | | | 643 | 649 | 656 | | |
| | | Shaft Fan | | | | | | | | | | | | | | | | 962 | 972 | 982 | |
| | | Electric Fan DuraPlate | | | | | | | | | | | | | | | | 1474 | 1489 | 1503 | |
| | 5,60 | None | 130 | 174 | 210 | 214 | 218 | 252 | 255 | 257 | 338 | 341 | 344 | 379 | 383 | 387 | 611 | 617 | 623 | 621 | |
| | | Shaft Fan | 142 | 204 | 249 | 256 | 261 | 346 | 350 | 353 | 495 | 499 | 504 | 574 | 580 | 585 | 912 | 922 | 931 | 941 | |
| | | Electric Fan DuraPlate | 218 | 320 | 386 | 444 | 453 | 530 | 536 | 541 | 776 | 784 | 792 | 844 | 853 | 861 | 1399 | 1413 | 1426 | 1456 | |
| | 6,30 | None | 125 | 165 | 210 | 214 | 218 | 249 | 252 | 254 | 330 | 334 | 337 | 376 | 380 | 384 | 631 | 637 | 644 | 608 | |
| | | Shaft Fan | 137 | 194 | 248 | 255 | 260 | 342 | 345 | 348 | 482 | 486 | 491 | 568 | 574 | 579 | 932 | 942 | 951 | 917 | |
| | | Electric Fan DuraPlate | 210 | 303 | 383 | 441 | 450 | 522 | 527 | 532 | 753 | 760 | 768 | 834 | 843 | 851 | 1414 | 1428 | 1442 | 1414 | |
| | 7,10 | None | 127 | 166 | 203 | 207 | 211 | 236 | 238 | 241 | 321 | 324 | 327 | 398 | 402 | 406 | 627 | 633 | 640 | 625 | |
| | | Shaft Fan | 139 | 194 | 240 | 247 | 252 | 323 | 326 | 329 | 466 | 471 | 476 | 593 | 599 | 605 | 905 | 914 | 923 | 931 | |
| | | Electric Fan DuraPlate | 212 | 301 | 370 | 426 | 435 | 492 | 497 | 502 | 727 | 734 | 742 | 862 | 870 | 879 | 1348 | 1361 | 1375 | 1420 | |
| | 8,00 | None | 116 | 157 | 188 | 195 | 198 | 235 | 237 | 239 | 327 | 330 | 333 | 373 | 377 | 381 | 586 | 592 | 597 | 617 | |
| | | Shaft Fan | 127 | 183 | 222 | 232 | 237 | 320 | 323 | 326 | 469 | 473 | 478 | 549 | 555 | 560 | 848 | 857 | 865 | 895 | |
| | | Electric Fan DuraPlate | 195 | 285 | 343 | 402 | 410 | 486 | 490 | 495 | 721 | 728 | 735 | 793 | 801 | 809 | 1269 | 1282 | 1294 | 1341 | |
| | 9,00 | None | 111 | 148 | 187 | 194 | 198 | 231 | 233 | 235 | 316 | 319 | 322 | 368 | 371 | 375 | 597 | 603 | 609 | 594 | |
| | | Shaft Fan | 121 | 173 | 221 | 231 | 236 | 314 | 317 | 320 | 452 | 457 | 461 | 541 | 547 | 552 | 858 | 867 | 876 | 863 | |
| | | Electric Fan DuraPlate | 187 | 270 | 341 | 399 | 407 | 477 | 482 | 487 | 695 | 702 | 709 | 782 | 789 | 797 | 1275 | 1288 | 1301 | 1293 | |
| | 10,0 | None | 113 | 149 | 180 | 187 | 191 | 216 | 219 | 221 | 304 | 307 | 310 | 383 | 387 | 391 | 547 | 552 | 558 | 599 | |
| | | Shaft Fan | 123 | 173 | 213 | 223 | 227 | 294 | 297 | 300 | 435 | 439 | 444 | 560 | 565 | 571 | 784 | 792 | 800 | 864 | |
| Electric Fan DuraPlate | | 189 | 268 | 327 | 383 | 391 | 447 | 451 | 456 | 668 | 674 | 681 | 802 | 810 | 818 | 1165 | 1176 | 1188 | 1288 | | |
| 11,2 | None | 96 | 128 | 153 | 167 | 170 | 197 | 199 | 201 | 265 | 268 | 271 | 311 | 314 | 317 | 509 | 514 | 519 | 540 | | |
| | Shaft Fan | 106 | 150 | 181 | 199 | 203 | 269 | 272 | 274 | 382 | 386 | 389 | 456 | 461 | 465 | 734 | 741 | 748 | 778 | | |
| | Electric Fan DuraPlate | 164 | 235 | 281 | 345 | 352 | 410 | 414 | 418 | 591 | 597 | 603 | 658 | 665 | 672 | 1095 | 1106 | 1117 | 1160 | | |
| 12,5 | None | 92 | 121 | 153 | 166 | 169 | 194 | 196 | 198 | 256 | 259 | 261 | 306 | 309 | 312 | 517 | 523 | 528 | 518 | | |
| | Shaft Fan | 101 | 142 | 181 | 198 | 202 | 264 | 267 | 270 | 368 | 372 | 376 | 449 | 453 | 458 | 742 | 749 | 756 | 748 | | |
| | Electric Fan DuraPlate | 157 | 223 | 279 | 342 | 349 | 402 | 406 | 411 | 570 | 576 | 582 | 648 | 655 | 661 | 1100 | 1111 | 1122 | 1117 | | |
| 14,0 | None | 94 | 121 | 147 | 160 | 163 | 178 | 180 | 182 | 247 | 249 | 252 | 318 | 321 | 324 | 486 | 491 | 496 | 520 | | |
| | Shaft Fan | 103 | 142 | 174 | 191 | 194 | 242 | 245 | 247 | 354 | 358 | 362 | 463 | 468 | 473 | 693 | 700 | 707 | 748 | | |
| | Electric Fan DuraPlate | 159 | 221 | 269 | 329 | 335 | 368 | 372 | 375 | 548 | 554 | 559 | 665 | 672 | 678 | 1024 | 1035 | 1045 | 1112 | | |
| 16,0 | None | 81 | 110 | 132 | 144 | 147 | 164 | 166 | 168 | 242 | 245 | 247 | 272 | 275 | 278 | 452 | 456 | 461 | 480 | | |
| | Shaft Fan | 89 | 129 | 157 | 172 | 175 | 225 | 227 | 229 | 347 | 351 | 354 | 398 | 402 | 406 | 647 | 654 | 660 | 688 | | |
| | Electric Fan DuraPlate | 140 | 204 | 243 | 296 | 302 | 344 | 347 | 351 | 536 | 542 | 547 | 573 | 579 | 585 | 962 | 971 | 981 | 1020 | | |
| 18,0 | None | 78 | 104 | 132 | 143 | 146 | 162 | 163 | 165 | 233 | 236 | 238 | 268 | 270 | 273 | 459 | 463 | 468 | 460 | | |
| | Shaft Fan | 86 | 122 | 157 | 171 | 174 | 221 | 223 | 225 | 334 | 338 | 341 | 392 | 395 | 399 | 654 | 661 | 667 | 660 | | |
| | Electric Fan DuraPlate | 134 | 193 | 241 | 294 | 300 | 338 | 341 | 344 | 516 | 521 | 526 | 565 | 570 | 576 | 967 | 977 | 986 | 981 | | |
| 20,0 | None | 79 | 104 | 127 | 138 | 141 | 152 | 153 | 155 | 224 | 226 | 228 | 278 | 281 | 284 | 443 | 447 | 451 | 462 | | |
| | Shaft Fan | 87 | 122 | 151 | 164 | 168 | 207 | 209 | 211 | 320 | 323 | 326 | 404 | 408 | 412 | 626 | 632 | 638 | 660 | | |
| | Electric Fan DuraPlate | 135 | 191 | 233 | 283 | 288 | 317 | 320 | 323 | 493 | 498 | 503 | 579 | 585 | 591 | 917 | 926 | 935 | 977 | | |
| 22,4 | None | 77 | 103 | 120 | 127 | 130 | 164 | 166 | 167 | 215 | 217 | 219 | 278 | 281 | 284 | 410 | 414 | 418 | 437 | | |
| | Shaft Fan | 85 | 121 | 141 | 151 | 154 | 221 | 223 | 225 | 304 | 307 | 310 | 395 | 399 | 403 | 583 | 589 | 595 | 620 | | |
| | Electric Fan DuraPlate | 132 | 196 | 216 | 258 | 263 | 330 | 333 | 336 | 461 | 466 | 471 | 551 | 556 | 562 | 860 | 868 | 877 | 912 | | |
| 25,0 | None | 74 | 97 | 119 | 127 | 130 | 162 | 163 | 165 | 207 | 209 | 211 | 273 | 276 | 279 | 448 | 452 | 457 | 418 | | |
| | Shaft Fan | 81 | 115 | 141 | 151 | 154 | 218 | 220 | 222 | 293 | 296 | 299 | 388 | 392 | 396 | 640 | 647 | 653 | 595 | | |
| | Electric Fan DuraPlate | 126 | 186 | 215 | 256 | 262 | 325 | 329 | 332 | 445 | 450 | 454 | 542 | 548 | 553 | 951 | 961 | 970 | 877 | | |
| 28,0 | None | 75 | 98 | 115 | 122 | 125 | 150 | 152 | 153 | 199 | 201 | 203 | 284 | 287 | 290 | | | | 449 | | |
| | Shaft Fan | 82 | 115 | 136 | 145 | 148 | 203 | 205 | 207 | 282 | 284 | 287 | 401 | 405 | 409 | | | | 644 | | |
| | Electric Fan DuraPlate | 128 | 184 | 207 | 247 | 252 | 304 | 307 | 310 | 428 | 432 | 437 | 556 | 562 | 567 | | | | 959 | | |
| | | | | | | | | | | | | | | | | | | | 831 | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP2 Parallel Shaft

Basic Thermal Ratings ★ – kW/Double Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|---------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 900 | 5,00 | None | 665 | 672 | 678 | | | * | * | * | | | |
| | | Shaft Fan | 1286 | 1299 | 1312 | | | 1437 | 1451 | 1465 | | | |
| | | Electric Fan | 1952 | 1972 | 1991 | | | 2375 | 2399 | 2423 | | | |
| | | DuraPlate | 2251 | 2273 | 2296 | | | 3039 | 3069 | 3100 | | | |
| | 5,60 | None | 692 | 699 | 706 | 588 | 600 | * | * | * | * | * | * |
| | | Shaft Fan | 1296 | 1309 | 1322 | 1203 | 1227 | 1471 | 1485 | 1500 | 1191 | 1202 | 1214 |
| | | Electric Fan | 1938 | 1958 | 1977 | 1869 | 1907 | 2361 | 2385 | 2408 | 2124 | 2145 | 2167 |
| | | DuraPlate | 2225 | 2247 | 2270 | 2169 | 2212 | 2991 | 3021 | 3051 | 2791 | 2819 | 2847 |
| | 6,30 | None | 668 | 675 | 682 | 642 | 655 | * | * | * | * | * | * |
| | | Shaft Fan | 1249 | 1262 | 1274 | 1248 | 1273 | 1452 | 1467 | 1481 | 1291 | 1304 | 1317 |
| | | Electric Fan | 1870 | 1889 | 1908 | 1895 | 1933 | 2313 | 2336 | 2360 | 2177 | 2199 | 2221 |
| | | DuraPlate | 2148 | 2170 | 2191 | 2185 | 2229 | 2925 | 2954 | 2983 | 2809 | 2837 | 2865 |
| | 7,10 | None | 701 | 708 | 715 | 627 | 639 | 872 | 881 | 890 | * | * | * |
| | | Shaft Fan | 1226 | 1239 | 1251 | 1210 | 1234 | 1665 | 1682 | 1698 | 1302 | 1315 | 1328 |
| | | Electric Fan | 1787 | 1805 | 1823 | 1836 | 1872 | 2463 | 2487 | 2512 | 2158 | 2180 | 2201 |
| | | DuraPlate | 1652 | 1669 | 1685 | 2116 | 2159 | 2389 | 2413 | 2437 | 2770 | 2798 | 2826 |
| | 8,00 | None | 701 | 708 | 715 | 669 | 682 | 847 | 856 | 864 | 793 | 801 | 809 |
| | | Shaft Fan | 1211 | 1223 | 1235 | 1190 | 1214 | 1599 | 1615 | 1631 | 1578 | 1594 | 1609 |
| | | Electric Fan | 1752 | 1769 | 1787 | 1750 | 1785 | 2358 | 2382 | 2406 | 2375 | 2399 | 2422 |
| | | DuraPlate | 1622 | 1638 | 1654 | 1615 | 1647 | 2288 | 2311 | 2334 | 2301 | 2324 | 2347 |
| | 9,00 | None | 667 | 674 | 681 | 687 | 701 | 817 | 825 | 833 | 786 | 794 | 802 |
| | | Shaft Fan | 1159 | 1171 | 1182 | 1199 | 1223 | 1541 | 1557 | 1572 | 1530 | 1545 | 1560 |
| | | Electric Fan | 1684 | 1701 | 1718 | 1743 | 1778 | 2278 | 2301 | 2324 | 2324 | 2310 | 2333 |
| | | DuraPlate | 1558 | 1573 | 1589 | 1612 | 1644 | 2210 | 2232 | 2254 | 2217 | 2239 | 2261 |
| | 10,0 | None | 639 | 645 | 652 | 656 | 669 | 867 | 875 | 884 | 765 | 773 | 780 |
| | | Shaft Fan | 1091 | 1101 | 1112 | 1150 | 1173 | 1534 | 1550 | 1565 | 1482 | 1496 | 1511 |
| | | Electric Fan | 1573 | 1589 | 1605 | 1677 | 1711 | 2202 | 2224 | 2246 | 2216 | 2238 | 2260 |
| | | DuraPlate | 1228 | 1240 | 1253 | 1550 | 1581 | 2641 | 2668 | 2694 | 2148 | 2169 | 2191 |
| 11,2 | None | 634 | 641 | 647 | 619 | 631 | 821 | 829 | 838 | 833 | 841 | 849 | |
| | Shaft Fan | 1073 | 1084 | 1094 | 1067 | 1088 | 1456 | 1470 | 1485 | 1495 | 1510 | 1525 | |
| | Electric Fan | 1539 | 1555 | 1570 | 1548 | 1579 | 2093 | 2114 | 2135 | 2162 | 2184 | 2205 | |
| | DuraPlate | 1206 | 1218 | 1230 | 1204 | 1228 | 2514 | 2539 | 2565 | 2602 | 2628 | 2654 | |
| 12,5 | None | 603 | 609 | 615 | 629 | 641 | 784 | 792 | 800 | 792 | 800 | 807 | |
| | Shaft Fan | 1027 | 1037 | 1047 | 1069 | 1090 | 1397 | 1411 | 1425 | 1420 | 1435 | 1449 | |
| | Electric Fan | 1480 | 1495 | 1509 | 1537 | 1568 | 2017 | 2037 | 2058 | 2056 | 2077 | 2097 | |
| | DuraPlate | 1156 | 1167 | 1179 | 1202 | 1226 | 2428 | 2452 | 2476 | 2477 | 2502 | 2526 | |
| 14,0 | None | 552 | 557 | 563 | 599 | 611 | 795 | 803 | 811 | 758 | 766 | 773 | |
| | Shaft Fan | 930 | 940 | 949 | 1024 | 1044 | 1366 | 1379 | 1393 | 1366 | 1379 | 1393 | |
| | Electric Fan | 1336 | 1349 | 1362 | 1479 | 1509 | 1937 | 1956 | 1976 | 1983 | 2003 | 2023 | |
| | DuraPlate | 1226 | 1238 | 1251 | 1153 | 1177 | 1866 | 1885 | 1904 | 2393 | 2417 | 2441 | |
| 16,0 | None | 546 | 552 | 557 | 537 | 548 | 747 | 755 | 762 | 776 | 784 | 791 | |
| | Shaft Fan | 914 | 924 | 933 | 912 | 931 | 1290 | 1303 | 1316 | 1343 | 1356 | 1370 | |
| | Electric Fan | 1307 | 1320 | 1333 | 1316 | 1343 | 1836 | 1854 | 1873 | 1913 | 1932 | 1951 | |
| | DuraPlate | 1201 | 1213 | 1225 | 1207 | 1231 | 1768 | 1786 | 1803 | 1842 | 1861 | 1879 | |
| 18,0 | None | 519 | 524 | 529 | 544 | 554 | 711 | 718 | 725 | 729 | 736 | 743 | |
| | Shaft Fan | 876 | 884 | 893 | 913 | 931 | 1236 | 1248 | 1260 | 1267 | 1279 | 1292 | |
| | Electric Fan | 1257 | 1270 | 1283 | 1306 | 1333 | 1767 | 1784 | 1802 | 1811 | 1829 | 1847 | |
| | DuraPlate | 1154 | 1166 | 1177 | 1200 | 1224 | 1701 | 1718 | 1735 | 1743 | 1761 | 1778 | |
| 20,0 | None | 512 | 517 | 522 | 517 | 528 | 730 | 737 | 745 | 695 | 702 | 708 | |
| | Shaft Fan | 865 | 873 | 882 | 875 | 892 | 1262 | 1274 | 1287 | 1215 | 1227 | 1239 | |
| | Electric Fan | 1250 | 1263 | 1275 | 1258 | 1283 | 1809 | 1827 | 1845 | 1743 | 1761 | 1778 | |
| | DuraPlate | 966 | 976 | 985 | 1154 | 1178 | 1536 | 1552 | 1567 | 1678 | 1694 | 1711 | |
| 22,4 | None | 520 | 525 | 530 | 499 | 509 | 712 | 719 | 726 | 717 | 725 | 732 | |
| | Shaft Fan | 930 | 939 | 948 | 848 | 865 | 1232 | 1245 | 1257 | 1244 | 1257 | 1269 | |
| | Electric Fan | 1266 | 1279 | 1292 | 1232 | 1256 | 1768 | 1786 | 1804 | 1788 | 1806 | 1824 | |
| | DuraPlate | 973 | 983 | 992 | 949 | 968 | 1416 | 1430 | 1444 | 1517 | 1532 | 1547 | |
| 25,0 | None | 491 | 496 | 500 | 520 | 531 | 681 | 687 | 694 | 700 | 707 | 714 | |
| | Shaft Fan | 886 | 894 | 903 | 933 | 952 | 1182 | 1194 | 1205 | 1216 | 1228 | 1240 | |
| | Electric Fan | 1213 | 1225 | 1237 | 1275 | 1300 | 1701 | 1718 | 1735 | 1749 | 1767 | 1784 | |
| | DuraPlate | 928 | 937 | 946 | 978 | 998 | 1359 | 1373 | 1386 | 1398 | 1412 | 1426 | |
| 28,0 | None | | | | 492 | 502 | | | | 665 | 672 | 679 | |
| | Shaft Fan | | | | 890 | 907 | | | | 1161 | 1173 | 1184 | |
| | Electric Fan | | | | 1222 | 1247 | | | | 1677 | 1694 | 1711 | |
| | DuraPlate | | | | 934 | 952 | | | | 1337 | 1351 | 1364 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP2 Parallel Shaft

Basic Thermal Ratings [★] – kW/Double Reduction Maximum 82°C Sump Temperature[†]

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | | |
|-----------|--------------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 | |
| 1800 | 5,00 | None | | | | | | | | | | | | | | | N/A | N/A | N/A | | |
| | | Shaft Fan | | | | | | | | | | | | | | | | N/A | N/A | N/A | |
| | | Electric Fan | | | | | | | | | | | | | | | | N/A | N/A | N/A | |
| | 5,60 | DuraPlate | | | | | | | | | | | | | | | 540 | 545 | 551 | | |
| | | None | 110 | 142 | 152 | 115 | 118 | * | * | * | * | * | * | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Shaft Fan | 170 | 272 | 316 | 287 | 292 | 314 | 317 | 320 | 310 | 313 | 317 | * | * | * | N/A | N/A | N/A | N/A | N/A |
| | 6,30 | Electric Fan | 206 | 305 | 347 | 364 | 372 | 318 | 321 | 324 | 330 | 333 | 337 | * | * | * | N/A | N/A | N/A | N/A | N/A |
| | | DuraPlate | N/A | 309 | 362 | 415 | 424 | 544 | 549 | 555 | 762 | 769 | 777 | 522 | 525 | 531 | 705 | 712 | 719 | 719 | * |
| | | None | 108 | 140 | 160 | 127 | 129 | * | * | * | * | * | * | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 7,10 | Shaft Fan | 165 | 263 | 322 | 298 | 304 | 328 | 331 | 334 | 367 | 370 | 374 | * | * | * | * | * | * | * | N/A |
| | | Electric Fan | 200 | 295 | 353 | 375 | 382 | 332 | 335 | 338 | 386 | 390 | 394 | * | * | * | * | * | * | * | N/A |
| | | DuraPlate | N/A | 299 | 368 | 425 | 434 | 555 | 561 | 566 | 807 | 815 | 823 | 562 | 568 | 574 | 892 | 901 | 909 | 909 | 479 |
| | 8,00 | None | 111 | 145 | 159 | 132 | 135 | * | * | * | * | * | * | N/A | N/A | N/A | * | * | * | * | N/A |
| | | Shaft Fan | 169 | 266 | 316 | 298 | 304 | 340 | 343 | 347 | 392 | 396 | 400 | * | * | * | 722 | 730 | 737 | 737 | N/A |
| | | Electric Fan | 204 | 297 | 346 | 373 | 380 | 343 | 347 | 350 | 412 | 416 | 420 | * | * | * | 723 | 730 | 737 | 737 | N/A |
| | 9,00 | DuraPlate | N/A | 301 | 360 | 421 | 430 | 556 | 562 | 567 | 818 | 826 | 835 | 690 | 697 | 704 | 1696 | 1713 | 1730 | 1730 | 721 |
| | | None | 106 | 147 | 169 | 156 | 159 | 155 | 157 | 158 | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 159 | 263 | 317 | 317 | 323 | 412 | 416 | 420 | 578 | 584 | 590 | 494 | 499 | 504 | 726 | 734 | 741 | 741 | 650 |
| | 10,0 | Electric Fan | 192 | 292 | 345 | 388 | 396 | 415 | 419 | 423 | 598 | 604 | 610 | 443 | 448 | 452 | 727 | 734 | 741 | 741 | 650 |
| | | DuraPlate | 189 | 251 | 341 | 349 | 356 | 477 | 482 | 486 | 738 | 745 | 752 | 692 | 699 | 706 | 1656 | 1673 | 1690 | 1690 | 1630 |
| | | None | 102 | 141 | 171 | 160 | 163 | 158 | 159 | 161 | 182 | 184 | 186 | * | * | * | * | * | * | * | * |
| | 11,2 | Shaft Fan | 154 | 250 | 316 | 318 | 324 | 411 | 415 | 419 | 576 | 582 | 587 | 501 | 506 | 511 | 779 | 786 | 794 | 794 | 677 |
| | | Electric Fan | 185 | 278 | 344 | 389 | 396 | 414 | 418 | 423 | 597 | 600 | 606 | 450 | 455 | 460 | 779 | 787 | 795 | 795 | 677 |
| | | DuraPlate | 182 | 239 | 341 | 350 | 357 | 475 | 480 | 485 | 729 | 737 | 744 | 697 | 704 | 711 | 1700 | 1717 | 1734 | 1734 | 1627 |
| | 12,5 | None | 104 | 142 | 166 | 157 | 160 | 156 | 157 | 159 | 185 | 186 | 188 | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 156 | 250 | 306 | 309 | 315 | 395 | 399 | 403 | 564 | 569 | 575 | 546 | 552 | 557 | 925 | 934 | 944 | 944 | 739 |
| | | Electric Fan | 187 | 277 | 332 | 377 | 384 | 398 | 402 | 406 | 582 | 587 | 593 | 495 | 500 | 504 | 926 | 935 | 944 | 944 | 739 |
| | 14,0 | DuraPlate | 184 | 239 | 329 | 340 | 347 | 455 | 460 | 464 | 711 | 718 | 725 | 745 | 753 | 760 | 1329 | 1342 | 1355 | 1355 | 1677 |
| None | | 90 | 125 | 147 | 152 | 155 | 161 | 163 | 164 | 197 | 199 | 201 | * | * | * | * | * | * | * | * | |
| Shaft Fan | | 136 | 222 | 269 | 292 | 297 | 382 | 386 | 390 | 542 | 547 | 553 | 573 | 579 | 585 | 885 | 894 | 903 | 903 | 901 | |
| 16,0 | Electric Fan | 164 | 247 | 293 | 353 | 361 | 385 | 389 | 393 | 560 | 563 | 569 | 529 | 534 | 539 | 885 | 894 | 903 | 903 | 901 | |
| | DuraPlate | 156 | 206 | 288 | 317 | 323 | 355 | 359 | 363 | 715 | 722 | 729 | 794 | 802 | 810 | 1270 | 1283 | 1296 | 1296 | 1307 | |
| | None | 87 | 119 | 147 | 153 | 156 | 160 | 162 | 163 | 196 | 198 | 200 | * | * | * | * | * | * | * | * | |
| 18,0 | Shaft Fan | 131 | 211 | 268 | 291 | 297 | 378 | 382 | 385 | 529 | 534 | 539 | 569 | 575 | 581 | 906 | 915 | 924 | 924 | 883 | |
| | Electric Fan | 158 | 235 | 291 | 352 | 359 | 381 | 385 | 388 | 544 | 550 | 555 | 525 | 531 | 536 | 906 | 915 | 924 | 924 | 884 | |
| | DuraPlate | 151 | 196 | 287 | 316 | 322 | 351 | 355 | 359 | 696 | 703 | 710 | 788 | 796 | 804 | 1287 | 1300 | 1313 | 1313 | 1278 | |
| 20,0 | None | 89 | 120 | 142 | 149 | 151 | 149 | 150 | 152 | 191 | 193 | 195 | 192 | 194 | 196 | 375 | 378 | 382 | 382 | * | |
| | Shaft Fan | 133 | 210 | 259 | 281 | 286 | 347 | 351 | 354 | 511 | 516 | 522 | 591 | 597 | 603 | 971 | 981 | 990 | 990 | 901 | |
| | Electric Fan | 160 | 233 | 281 | 339 | 346 | 350 | 354 | 357 | 526 | 532 | 537 | 547 | 553 | 558 | 971 | 981 | 991 | 991 | 901 | |
| 22,4 | DuraPlate | 153 | 195 | 277 | 305 | 311 | 323 | 327 | 330 | 672 | 678 | 685 | 811 | 820 | 828 | 1033 | 1043 | 1053 | 1053 | 1289 | |
| | None | 79 | 111 | 131 | 139 | 142 | 145 | 147 | 148 | 216 | 218 | 220 | 214 | 216 | 218 | 352 | 355 | 359 | 359 | 365 | |
| | Shaft Fan | 119 | 196 | 237 | 260 | 265 | 334 | 337 | 340 | 531 | 536 | 542 | 566 | 572 | 578 | 917 | 927 | 936 | 936 | 963 | |
| 25,0 | Electric Fan | 143 | 217 | 257 | 313 | 319 | 336 | 340 | 343 | 546 | 551 | 557 | 527 | 533 | 538 | 918 | 927 | 936 | 936 | 963 | |
| | DuraPlate | 119 | 179 | 216 | 238 | 243 | 259 | 261 | 264 | 542 | 547 | 552 | 587 | 592 | 598 | 976 | 986 | 996 | 996 | 1025 | |
| | None | 76 | 105 | 131 | 139 | 142 | 144 | 145 | 147 | 209 | 211 | 214 | 211 | 213 | 215 | 362 | 365 | 369 | 369 | 353 | |
| 28,0 | Shaft Fan | 114 | 186 | 236 | 258 | 263 | 329 | 332 | 336 | 513 | 518 | 523 | 560 | 566 | 572 | 927 | 936 | 946 | 946 | 932 | |
| | Electric Fan | 137 | 206 | 256 | 311 | 317 | 332 | 335 | 338 | 527 | 532 | 538 | 522 | 527 | 532 | 927 | 936 | 946 | 946 | 932 | |
| | DuraPlate | 114 | 170 | 216 | 237 | 242 | 255 | 258 | 260 | 523 | 529 | 534 | 580 | 586 | 592 | 986 | 995 | 1005 | 1005 | 992 | |
| 10,0 | None | 77 | 105 | 127 | 134 | 137 | 136 | 137 | 139 | 201 | 203 | 205 | 221 | 223 | 226 | 414 | 418 | 422 | 422 | 360 | |
| | Shaft Fan | 116 | 184 | 227 | 249 | 254 | 311 | 314 | 317 | 492 | 496 | 501 | 576 | 582 | 587 | 946 | 955 | 965 | 965 | 934 | |
| | Electric Fan | 139 | 204 | 247 | 299 | 305 | 313 | 316 | 319 | 505 | 510 | 515 | 537 | 542 | 548 | 946 | 955 | 965 | 965 | 934 | |
| 12,5 | DuraPlate | 116 | 169 | 208 | 228 | 233 | 241 | 243 | 246 | 501 | 506 | 511 | 596 | 602 | 608 | 1203 | 1215 | 1227 | 1227 | 993 | |
| | None | 78 | 101 | 124 | 130 | 133 | 165 | 167 | 169 | 214 | 216 | 218 | 269 | 271 | 274 | 385 | 389 | 393 | 393 | 407 | |
| | Shaft Fan | 115 | 182 | 216 | 234 | 239 | 352 | 355 | 359 | 481 | 486 | 490 | 613 | 619 | 625 | 891 | 900 | 909 | 909 | 942 | |
| 14,0 | Electric Fan | 138 | 203 | 234 | 279 | 285 | 354 | 358 | 361 | 493 | 498 | 503 | 577 | 582 | 588 | 1137 | 1148 | 1159 | 1159 | 1201 | |
| | DuraPlate | 114 | 153 | 177 | 191 | 195 | 246 | 248 | 251 | 410 | 414 | 418 | 526 | 531 | 536 | 1137 | 1148 | 1159 | 1159 | 1201 | |
| | None | 74 | 96 | 124 | 130 | 133 | 163 | 165 | 167 | 207 | 209 | 211 | 264 | 267 | 270 | 423 | 427 | 431 | 431 | 391 | |
| 16,0 | Shaft Fan | 110 | 173 | 215 | 233 | 237 | 348 | 352 | 355 | 465 | 470 | 474 | 605 | 611 | 617 | 992 | 1001 | 1011 | 1011 | 908 | |
| | Electric Fan | 132 | 193 | 233 | 277 | 283 | 351 | 354 | 358 | 477 | 482 | 486 | 569 | 575 | 580 | 992 | 1002 | 1012 | 1012 | 908 | |
| | DuraPlate | 109 | 141 | 176 | 190 | 194 | 243 | 246 | 248 | 397 | 401 | 405 | 519 | 524 | 529 | 1271 | 1284 | 1296 | 1296 | 1160 | |
| 18,0 | None | 76 | 97 | 120 | 125 | 128 | 153 | 154 | 156 | 199 | 201 | 203 | 276 | 278 | 281 | | | | | 423 | |
| | Shaft Fan | 112 | 171 | 208 | 224 | 229 | 326 | 329 | 332 | 447 | 452 | 456 | 619 | 626 | 632 | | | | | 999 | |
| | Electric Fan | 134 | 190 | 224 | 267 | 273 | 328 | 331 | 335 | 459 | 463 | 468 | 583 | 589 | 595 | | | | | 1000 | |
| 20,0 | DuraPlate | 111 | 140 | 170 | 183 | 187 | 227 | 229 | 232 | 382 | 385 | 389 | 533 | 538 | 543 | | | | | 1283 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP2 Parallel Shaft

Basic Thermal Ratings ★ – kW/Double Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|---------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|-----|-----|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1800 | 5,00 | None | * | * | * | | | * | * | * | | | |
| | | Shaft Fan | * | * | * | | | * | * | * | | | |
| | | Electric Fan | * | * | * | | | * | * | * | | | |
| | 5,60 | DuraPlate | * | * | * | | | * | * | * | | | |
| | | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * |
| | 6,30 | Electric Fan | * | * | * | * | * | * | * | * | * | * | * |
| | | DuraPlate | * | * | * | * | * | * | * | * | * | * | * |
| | | None | * | * | * | * | * | * | * | * | * | * | * |
| | 7,10 | Shaft Fan | 642 | 649 | 655 | * | * | * | * | * | * | * | * |
| | | Electric Fan | 582 | 588 | 594 | * | * | * | * | * | * | * | * |
| | | DuraPlate | 1648 | 1665 | 1681 | * | * | * | * | * | * | * | * |
| | 8,00 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 735 | 742 | 750 | * | * | * | * | * | * | * | * |
| | | Electric Fan | 677 | 683 | 690 | * | * | * | * | * | * | * | * |
| | 9,00 | DuraPlate | 1729 | 1747 | 1764 | 1380 | 1408 | * | * | * | * | * | * |
| | | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 740 | 748 | 755 | 702 | 716 | * | * | * | * | * | * |
| | 10,0 | Electric Fan | 684 | 691 | 698 | * | * | * | * | * | * | * | * |
| | | DuraPlate | 1707 | 1724 | 1741 | 1537 | 1568 | * | * | * | * | * | * |
| None | | * | * | * | * | * | * | * | * | * | * | * | |
| 11,2 | Shaft Fan | 1046 | 1056 | 1066 | 744 | 759 | 961 | 970 | 980 | * | * | * | |
| | Electric Fan | 995 | 1005 | 1015 | 675 | 688 | 804 | 812 | 820 | * | * | * | |
| | DuraPlate | 1473 | 1488 | 1503 | 1548 | 1579 | 3315 | 3348 | 3381 | * | * | * | |
| 12,5 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 1055 | 1065 | 1076 | 1190 | 1213 | 1035 | 1045 | 1056 | * | * | * | |
| | Electric Fan | 1006 | 1016 | 1026 | 1128 | 1150 | 885 | 894 | 903 | * | * | * | |
| 14,0 | DuraPlate | 1478 | 1493 | 1508 | 1373 | 1400 | 3275 | 3307 | 3340 | 3011 | 3041 | * | |
| | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 1023 | 1033 | 1043 | 1238 | 1263 | 1043 | 1053 | 1064 | 814 | 822 | * | |
| 16,0 | Electric Fan | 976 | 985 | 995 | 1178 | 1201 | 898 | 907 | 916 | 669 | 675 | * | |
| | DuraPlate | 1433 | 1448 | 1462 | 1416 | 1444 | 3218 | 3250 | 3282 | 3054 | 3085 | * | |
| | None | * | * | * | * | * | * | * | * | * | * | * | |
| 18,0 | Shaft Fan | 1091 | 1102 | 1113 | 1210 | 1234 | 1760 | 1778 | 1795 | 858 | 867 | * | |
| | Electric Fan | 1050 | 1060 | 1071 | 1151 | 1174 | 1625 | 1641 | 1658 | * | * | * | |
| | DuraPlate | 1899 | 1918 | 1937 | 1382 | 1410 | 2726 | 2753 | 2780 | 3032 | 3062 | * | |
| 20,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 1075 | 1086 | 1097 | 1307 | 1333 | 1692 | 1709 | 1726 | 1675 | 1692 | * | |
| | Electric Fan | 1035 | 1046 | 1056 | 1256 | 1281 | 1563 | 1579 | 1594 | 1540 | 1555 | * | |
| 22,4 | DuraPlate | 1859 | 1878 | 1897 | 1859 | 1896 | 2615 | 2641 | 2667 | 2643 | 2669 | * | |
| | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 1037 | 1047 | 1058 | 1311 | 1338 | 1637 | 1653 | 1670 | 1626 | 1643 | * | |
| 25,0 | Electric Fan | 998 | 1008 | 1018 | 1262 | 1287 | 1512 | 1527 | 1542 | 1498 | 1513 | * | |
| | DuraPlate | 1799 | 1817 | 1835 | 1847 | 1884 | 2536 | 2562 | 2587 | 2550 | 2575 | * | |
| | None | 383 | 386 | 390 | * | * | 476 | 481 | 486 | * | * | * | |
| 28,0 | Shaft Fan | 1120 | 1132 | 1143 | 1267 | 1293 | 1818 | 1837 | 1855 | 1581 | 1597 | * | |
| | Electric Fan | 1082 | 1093 | 1104 | 1219 | 1243 | 1693 | 1710 | 1727 | 1456 | 1471 | * | |
| | DuraPlate | 1505 | 1520 | 1535 | 1789 | 1825 | 2276 | 2299 | 2322 | 2480 | 2505 | * | |
| 28,0 | None | 381 | 385 | 389 | 454 | 463 | 490 | 495 | 500 | 513 | 519 | * | |
| | Shaft Fan | 1254 | 1267 | 1279 | 1357 | 1384 | 1807 | 1825 | 1843 | 1849 | 1867 | * | |
| | Electric Fan | 1081 | 1091 | 1102 | 1310 | 1336 | 1684 | 1701 | 1718 | 1724 | 1741 | * | |
| 28,0 | DuraPlate | 1518 | 1533 | 1548 | 1479 | 1508 | 2065 | 2086 | 2107 | 2305 | 2328 | * | |
| | None | 360 | 364 | 368 | 465 | 474 | 544 | 550 | 555 | 540 | 546 | * | |
| | Shaft Fan | 1207 | 1219 | 1231 | 1550 | 1581 | 1821 | 1840 | 1858 | 1852 | 1871 | * | |
| 28,0 | Electric Fan | 1037 | 1048 | 1058 | 1336 | 1363 | 1702 | 1719 | 1736 | 1730 | 1747 | * | |
| | DuraPlate | 1460 | 1475 | 1490 | 1524 | 1554 | 2072 | 2093 | 2113 | 2109 | 2131 | * | |
| | None | | | | 441 | 450 | | | | 518 | 523 | * | |
| 28,0 | Shaft Fan | | | | 1493 | 1523 | | | | 1784 | 1801 | * | |
| | Electric Fan | | | | 1285 | 1310 | | | | 1665 | 1682 | * | |
| | DuraPlate | | | | 1468 | 1497 | | | | 2033 | 2054 | * | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP2 Parallel Shaft

Basic Thermal Ratings [★] – kW/Double Reduction Maximum 82°C Sump Temperature[†]

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|-----------|--------------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1500 | 5,00 | None | | | | | | | | | | | | | | | N/A | N/A | N/A | |
| | | Shaft Fan | | | | | | | | | | | | | | | 280 | 283 | 286 | |
| | | Electric Fan | | | | | | | | | | | | | | | 424 | 429 | 433 | |
| | 5,60 | DuraPlate | | | | | | | | | | | | | | | 1049 | 1060 | 1070 | |
| | | None | 112 | 148 | 168 | 150 | 153 | 128 | 129 | 131 | 94 | 95 | 96 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | | Shaft Fan | 152 | 243 | 289 | 280 | 283 | 336 | 339 | 343 | 412 | 417 | 421 | 282 | 285 | 287 | * | * | * | * |
| | 6,30 | Electric Fan | 203 | 302 | 355 | 390 | 398 | 396 | 400 | 404 | 522 | 523 | 526 | 323 | 326 | 329 | 500 | 505 | 510 | * |
| | | DuraPlate | 218 | 280 | 334 | 389 | 397 | 529 | 534 | 540 | 782 | 790 | 798 | 724 | 731 | 738 | 1102 | 1114 | 1125 | 903 |
| | | None | 108 | 143 | 173 | 156 | 159 | 135 | 136 | 138 | 120 | 122 | 123 | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 7,10 | Shaft Fan | 148 | 234 | 292 | 283 | 289 | 341 | 345 | 348 | 436 | 441 | 445 | 302 | 305 | 309 | 456 | 461 | 465 | * |
| | | Electric Fan | 197 | 290 | 357 | 394 | 402 | 400 | 404 | 408 | 537 | 542 | 548 | 344 | 347 | 350 | 603 | 609 | 615 | * |
| | | DuraPlate | 211 | 269 | 336 | 393 | 401 | 532 | 537 | 542 | 794 | 802 | 810 | 743 | 750 | 757 | 1209 | 1221 | 1234 | 988 |
| | 8,00 | None | 111 | 147 | 169 | 156 | 159 | 142 | 143 | 145 | 134 | 135 | 136 | * | * | * | * | * | * | N/A |
| | | Shaft Fan | 150 | 235 | 285 | 280 | 285 | 339 | 342 | 346 | 442 | 447 | 451 | 373 | 375 | 379 | 835 | 843 | 851 | * |
| | | Electric Fan | 199 | 290 | 347 | 386 | 394 | 395 | 399 | 403 | 540 | 545 | 550 | 414 | 419 | 423 | 978 | 988 | 998 | 514 |
| | 9,00 | DuraPlate | 213 | 270 | 327 | 386 | 393 | 519 | 524 | 529 | 787 | 795 | 803 | 824 | 832 | 840 | 1623 | 1639 | 1655 | 1124 |
| | | None | 104 | 144 | 169 | 164 | 168 | 178 | 179 | 181 | 227 | 229 | 231 | * | * | * | * | * | * | * |
| | | Shaft Fan | 140 | 229 | 277 | 282 | 288 | 375 | 378 | 382 | 541 | 546 | 552 | 532 | 538 | 543 | 809 | 818 | 826 | 793 |
| | 10,0 | Electric Fan | 186 | 281 | 335 | 384 | 392 | 430 | 434 | 439 | 636 | 643 | 649 | 574 | 580 | 585 | 946 | 956 | 965 | 937 |
| | | DuraPlate | 170 | 226 | 304 | 316 | 322 | 435 | 439 | 443 | 674 | 680 | 687 | 701 | 708 | 715 | 1562 | 1577 | 1593 | 1588 |
| | | None | 100 | 137 | 170 | 166 | 169 | 178 | 179 | 181 | 228 | 230 | 232 | * | * | * | 288 | 290 | 293 | * |
| | 11,2 | Shaft Fan | 135 | 217 | 276 | 282 | 288 | 373 | 375 | 379 | 531 | 537 | 542 | 533 | 538 | 543 | 842 | 850 | 858 | 791 |
| | | Electric Fan | 179 | 267 | 334 | 383 | 391 | 426 | 430 | 435 | 623 | 630 | 636 | 574 | 579 | 585 | 978 | 988 | 997 | 931 |
| | | DuraPlate | 163 | 215 | 303 | 315 | 322 | 431 | 435 | 439 | 659 | 666 | 672 | 700 | 707 | 714 | 1586 | 1602 | 1618 | 1561 |
| | 12,5 | None | 102 | 138 | 164 | 161 | 165 | 171 | 173 | 175 | 224 | 227 | 229 | 201 | 203 | 205 | 366 | 370 | 373 | * |
| | | Shaft Fan | 137 | 217 | 266 | 273 | 279 | 354 | 357 | 361 | 516 | 521 | 527 | 565 | 571 | 576 | 882 | 890 | 899 | 825 |
| | | Electric Fan | 181 | 265 | 321 | 370 | 378 | 405 | 409 | 413 | 605 | 611 | 617 | 606 | 612 | 619 | 1007 | 1017 | 1027 | 963 |
| | 14,0 | DuraPlate | 165 | 214 | 292 | 305 | 311 | 409 | 413 | 417 | 639 | 645 | 652 | 734 | 741 | 748 | 1213 | 1225 | 1237 | 1583 |
| None | | 88 | 120 | 142 | 151 | 154 | 166 | 168 | 170 | 216 | 218 | 220 | 220 | 222 | 224 | 347 | 351 | 354 | 351 | |
| Shaft Fan | | 119 | 191 | 232 | 252 | 258 | 334 | 338 | 341 | 479 | 483 | 488 | 529 | 534 | 539 | 836 | 844 | 853 | 867 | |
| 16,0 | Electric Fan | 158 | 235 | 280 | 341 | 348 | 382 | 385 | 389 | 559 | 564 | 570 | 564 | 570 | 575 | 955 | 965 | 974 | 993 | |
| | DuraPlate | 139 | 184 | 253 | 280 | 286 | 320 | 323 | 326 | 623 | 629 | 635 | 713 | 720 | 727 | 1152 | 1163 | 1175 | 1201 | |
| | None | 84 | 114 | 143 | 151 | 154 | 164 | 166 | 168 | 211 | 213 | 215 | 218 | 220 | 222 | 361 | 365 | 368 | 344 | |
| 18,0 | Shaft Fan | 114 | 182 | 231 | 252 | 257 | 330 | 333 | 336 | 465 | 470 | 474 | 524 | 529 | 534 | 850 | 859 | 867 | 843 | |
| | Electric Fan | 152 | 224 | 279 | 339 | 346 | 376 | 380 | 384 | 542 | 548 | 553 | 558 | 564 | 569 | 968 | 978 | 988 | 965 | |
| | DuraPlate | 134 | 175 | 252 | 279 | 285 | 316 | 319 | 322 | 604 | 610 | 616 | 705 | 712 | 719 | 1163 | 1175 | 1187 | 1166 | |
| 20,0 | None | 86 | 115 | 138 | 146 | 149 | 152 | 153 | 155 | 205 | 207 | 209 | 231 | 233 | 235 | 402 | 406 | 410 | 356 | |
| | Shaft Fan | 116 | 181 | 223 | 242 | 247 | 303 | 306 | 309 | 449 | 453 | 458 | 542 | 547 | 553 | 859 | 868 | 876 | 851 | |
| | Electric Fan | 154 | 222 | 269 | 326 | 333 | 345 | 349 | 352 | 523 | 528 | 533 | 577 | 583 | 588 | 969 | 979 | 988 | 972 | |
| 22,4 | DuraPlate | 136 | 174 | 243 | 269 | 274 | 290 | 293 | 296 | 582 | 588 | 594 | 725 | 732 | 739 | 920 | 929 | 938 | 1170 | |
| | None | 76 | 106 | 126 | 135 | 137 | 145 | 146 | 148 | 216 | 218 | 220 | 224 | 226 | 228 | 375 | 379 | 383 | 394 | |
| | Shaft Fan | 103 | 167 | 203 | 222 | 227 | 287 | 290 | 293 | 455 | 460 | 465 | 496 | 501 | 506 | 809 | 817 | 825 | 853 | |
| 25,0 | Electric Fan | 137 | 206 | 244 | 298 | 304 | 327 | 330 | 334 | 528 | 533 | 538 | 527 | 532 | 537 | 913 | 922 | 931 | 963 | |
| | DuraPlate | 107 | 159 | 192 | 212 | 216 | 235 | 237 | 239 | 472 | 476 | 481 | 520 | 525 | 530 | 866 | 875 | 884 | 914 | |
| | None | 73 | 100 | 126 | 135 | 137 | 143 | 144 | 146 | 209 | 211 | 213 | 221 | 223 | 225 | 384 | 388 | 392 | 380 | |
| 28,0 | Shaft Fan | 99 | 159 | 202 | 221 | 225 | 283 | 286 | 289 | 440 | 444 | 448 | 490 | 495 | 500 | 817 | 825 | 833 | 823 | |
| | Electric Fan | 132 | 195 | 243 | 296 | 302 | 322 | 326 | 329 | 509 | 514 | 519 | 520 | 526 | 531 | 921 | 930 | 939 | 930 | |
| | DuraPlate | 103 | 151 | 191 | 211 | 215 | 231 | 234 | 236 | 455 | 460 | 464 | 514 | 519 | 524 | 874 | 883 | 892 | 882 | |
| 31,5 | None | 75 | 100 | 121 | 130 | 132 | 135 | 136 | 137 | 201 | 203 | 205 | 231 | 233 | 235 | 407 | 411 | 415 | 385 | |
| | Shaft Fan | 101 | 158 | 195 | 213 | 217 | 266 | 269 | 272 | 421 | 425 | 429 | 504 | 509 | 514 | 813 | 822 | 830 | 824 | |
| | Electric Fan | 133 | 194 | 234 | 285 | 290 | 304 | 307 | 310 | 487 | 492 | 497 | 535 | 540 | 545 | 910 | 919 | 928 | 929 | |
| 35,0 | DuraPlate | 105 | 150 | 185 | 203 | 207 | 218 | 220 | 222 | 436 | 440 | 444 | 528 | 533 | 539 | 1028 | 1038 | 1048 | 882 | |
| | None | 74 | 97 | 117 | 124 | 126 | 157 | 159 | 161 | 205 | 207 | 209 | 261 | 263 | 266 | 378 | 382 | 386 | 401 | |
| | Shaft Fan | 99 | 156 | 184 | 199 | 203 | 297 | 300 | 303 | 408 | 412 | 416 | 523 | 528 | 533 | 764 | 771 | 779 | 809 | |
| 40,0 | Electric Fan | 131 | 193 | 221 | 264 | 269 | 335 | 339 | 342 | 468 | 473 | 477 | 551 | 557 | 562 | 856 | 864 | 873 | 907 | |
| | DuraPlate | 103 | 138 | 159 | 171 | 175 | 220 | 222 | 225 | 358 | 362 | 366 | 462 | 467 | 471 | 968 | 978 | 988 | 1025 | |
| | None | 71 | 92 | 117 | 123 | 126 | 156 | 157 | 159 | 198 | 200 | 202 | 256 | 259 | 261 | 414 | 418 | 422 | 385 | |
| 45,0 | Shaft Fan | 95 | 148 | 184 | 198 | 202 | 294 | 297 | 300 | 394 | 398 | 402 | 515 | 521 | 526 | 847 | 855 | 864 | 779 | |
| | Electric Fan | 125 | 184 | 219 | 262 | 268 | 332 | 335 | 338 | 452 | 457 | 461 | 544 | 549 | 554 | 951 | 960 | 970 | 873 | |
| | DuraPlate | 99 | 127 | 158 | 170 | 174 | 218 | 220 | 222 | 346 | 350 | 353 | 455 | 460 | 464 | 1078 | 1089 | 1100 | 988 | |
| 50,0 | None | 72 | 92 | 113 | 119 | 121 | 145 | 146 | 148 | 191 | 193 | 194 | 267 | 269 | 272 | | | | 415 | |
| | Shaft Fan | 96 | 147 | 177 | 191 | 195 | 275 | 277 | 280 | 379 | 383 | 387 | 529 | 534 | 540 | | | | 853 | |
| | Electric Fan | 127 | 182 | 212 | 253 | 258 | 310 | 313 | 316 | 435 | 439 | 444 | 557 | 563 | 568 | | | | 959 | |
| 56,0 | DuraPlate | 100 | 126 | 153 | 164 | 167 | 203 | 205 | 207 | 333 | 336 | 340 | 469 | 473 | 478 | | | | 1088 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP2 Parallel Shaft

Basic Thermal Ratings ★ – kW/Double Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|-----------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|------|-----|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1500 | 5,00 | None | * | * | * | | | * | * | * | | | |
| | | Shaft Fan | * | * | * | | | * | * | * | | | |
| | | Electric Fan | * | * | * | | | * | * | * | | | |
| | DuraPlate | 1545 | 1561 | 1576 | | | * | * | * | | | | |
| | 5,60 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * |
| | | Electric Fan | * | * | * | * | * | * | * | * | * | * | * |
| | DuraPlate | 1792 | 1810 | 1828 | 990 | 1010 | * | * | * | * | * | * | |
| | 6,30 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * |
| | | Electric Fan | * | * | * | * | * | * | * | * | * | * | * |
| | DuraPlate | 1830 | 1849 | 1867 | 1373 | 1401 | * | * | * | * | * | * | |
| | 7,10 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 865 | 874 | 883 | * | * | * | * | * | * | * | * |
| | | Electric Fan | 990 | 1000 | 1010 | * | * | * | * | * | * | * | * |
| | DuraPlate | 1730 | 1748 | 1765 | 1485 | 1515 | 1274 | 1287 | 1300 | * | * | * | |
| | 8,00 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 905 | 914 | 923 | 913 | 932 | * | * | * | * | * | * |
| | | Electric Fan | 1025 | 1035 | 1046 | 1067 | 1088 | * | * | * | * | * | * |
| | DuraPlate | 1753 | 1771 | 1789 | 1577 | 1609 | 1473 | 1487 | 1502 | 707 | 714 | 721 | |
| | 9,00 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 885 | 894 | 903 | 1008 | 1028 | * | * | * | * | * | * |
| | | Electric Fan | 1001 | 1011 | 1021 | 1158 | 1182 | * | * | * | * | * | * |
| | DuraPlate | 1708 | 1726 | 1743 | 1653 | 1686 | 1522 | 1537 | 1553 | 1066 | 1077 | 1087 | |
| | 10,0 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 1011 | 1021 | 1031 | 1003 | 1023 | 1315 | 1329 | 1342 | * | * | * |
| | | Electric Fan | 1116 | 1127 | 1138 | 1148 | 1170 | 1445 | 1460 | 1474 | * | * | * |
| | DuraPlate | 1394 | 1408 | 1422 | 1625 | 1658 | 3151 | 3183 | 3214 | 1184 | 1196 | 1208 | |
| 11,2 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 1007 | 1017 | 1027 | 1185 | 1208 | 1312 | 1325 | 1338 | 1135 | 1147 | 1158 | |
| | Electric Fan | 1108 | 1119 | 1130 | 1314 | 1340 | 1435 | 1450 | 1464 | 1264 | 1277 | 1290 | |
| DuraPlate | 1385 | 1399 | 1413 | 1331 | 1358 | 3062 | 3093 | 3123 | 2978 | 3008 | 3038 | | |
| 12,5 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 971 | 981 | 991 | 1209 | 1233 | 1285 | 1298 | 1311 | 1179 | 1191 | 1203 | |
| | Electric Fan | 1069 | 1080 | 1091 | 1335 | 1362 | 1404 | 1418 | 1433 | 1302 | 1315 | 1328 | |
| DuraPlate | 1336 | 1350 | 1363 | 1352 | 1379 | 2987 | 3017 | 3047 | 2932 | 2961 | 2990 | | |
| 14,0 | None | 342 | 346 | 349 | * | * | 496 | 501 | 506 | * | * | * | |
| | Shaft Fan | 965 | 975 | 984 | 1171 | 1194 | 1636 | 1652 | 1668 | 1173 | 1185 | 1197 | |
| | Electric Fan | 1052 | 1063 | 1073 | 1293 | 1319 | 1746 | 1763 | 1781 | 1292 | 1305 | 1318 | |
| DuraPlate | 1631 | 1648 | 1664 | 1309 | 1335 | 2400 | 2424 | 2448 | 2876 | 2905 | 2933 | | |
| 16,0 | None | 344 | 347 | 351 | 400 | 408 | 479 | 483 | 488 | * | * | * | |
| | Shaft Fan | 950 | 959 | 969 | 1162 | 1185 | 1561 | 1576 | 1592 | 1581 | 1597 | 1613 | |
| | Electric Fan | 1034 | 1044 | 1054 | 1269 | 1294 | 1666 | 1682 | 1699 | 1691 | 1708 | 1725 | |
| DuraPlate | 1597 | 1613 | 1629 | 1601 | 1633 | 2291 | 2314 | 2337 | 2346 | 2369 | 2392 | | |
| 18,0 | None | 327 | 330 | 334 | 414 | 422 | 459 | 464 | 468 | * | * | * | |
| | Shaft Fan | 914 | 923 | 932 | 1163 | 1187 | 1504 | 1519 | 1534 | 1516 | 1531 | 1546 | |
| | Electric Fan | 995 | 1005 | 1015 | 1268 | 1293 | 1606 | 1622 | 1638 | 1620 | 1637 | 1653 | |
| DuraPlate | 1542 | 1557 | 1573 | 1590 | 1622 | 2216 | 2238 | 2260 | 2245 | 2268 | 2290 | | |
| 20,0 | None | 382 | 386 | 389 | 395 | 403 | 564 | 569 | 575 | * | * | * | |
| | Shaft Fan | 955 | 965 | 974 | 1121 | 1143 | 1613 | 1629 | 1645 | 1465 | 1480 | 1495 | |
| | Electric Fan | 1036 | 1047 | 1057 | 1222 | 1247 | 1715 | 1732 | 1750 | 1567 | 1583 | 1598 | |
| DuraPlate | 1280 | 1293 | 1305 | 1537 | 1568 | 1979 | 1999 | 2019 | 2176 | 2197 | 2219 | | |
| 22,4 | None | 384 | 388 | 391 | 456 | 465 | 564 | 569 | 575 | 578 | 583 | 589 | |
| | Shaft Fan | 1038 | 1048 | 1059 | 1158 | 1181 | 1592 | 1608 | 1623 | 1620 | 1636 | 1652 | |
| | Electric Fan | 1041 | 1052 | 1062 | 1257 | 1283 | 1693 | 1709 | 1726 | 1722 | 1739 | 1756 | |
| DuraPlate | 1290 | 1303 | 1316 | 1258 | 1283 | 1801 | 1819 | 1837 | 1985 | 2005 | 2024 | | |
| 25,0 | None | 363 | 366 | 370 | 471 | 481 | 578 | 584 | 590 | 585 | 591 | 596 | |
| | Shaft Fan | 996 | 1006 | 1016 | 1285 | 1310 | 1573 | 1588 | 1604 | 1606 | 1623 | 1639 | |
| | Electric Fan | 999 | 1009 | 1019 | 1291 | 1316 | 1670 | 1687 | 1704 | 1707 | 1724 | 1741 | |
| DuraPlate | 1238 | 1250 | 1262 | 1296 | 1322 | 1776 | 1794 | 1811 | 1815 | 1834 | 1852 | | |
| 28,0 | None | | | | 447 | 455 | | | | 558 | 563 | 569 | |
| | Shaft Fan | | | | 1234 | 1258 | | | | 1543 | 1558 | 1574 | |
| | Electric Fan | | | | 1239 | 1264 | | | | 1640 | 1657 | 1673 | |
| DuraPlate | | | | 1245 | 1269 | | | | 1745 | 1763 | 1780 | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP2 Parallel Shaft

Basic Thermal Ratings ★ – kW/Double Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|-----------|--------------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1200 | 5,00 | None | | | | | | | | | | | | | | * | * | * | * | |
| | | Shaft Fan | | | | | | | | | | | | | | | 612 | 618 | 624 | |
| | | Electric Fan | | | | | | | | | | | | | | | 922 | 931 | 941 | |
| | DuraPlate | | | | | | | | | | | | | | | 1241 | 1253 | 1266 | | |
| | 5,60 | None | 110 | 147 | 173 | 168 | 170 | 173 | 174 | 176 | 196 | 198 | 200 | * | * | * | * | * | * | * |
| | | Shaft Fan | 132 | 209 | 252 | 250 | 255 | 321 | 325 | 328 | 434 | 438 | 443 | 413 | 417 | 421 | 624 | 630 | 636 | 543 |
| | | Electric Fan | 196 | 292 | 348 | 393 | 401 | 434 | 439 | 443 | 615 | 622 | 628 | 553 | 559 | 564 | 919 | 928 | 938 | 851 |
| | DuraPlate | 189 | 246 | 297 | 346 | 353 | 481 | 486 | 490 | 725 | 732 | 740 | 775 | 783 | 790 | 1223 | 1236 | 1248 | 1171 | |
| | 6,30 | None | 106 | 141 | 175 | 169 | 172 | 175 | 176 | 178 | 206 | 208 | 210 | * | * | * | * | * | * | * |
| | | Shaft Fan | 127 | 200 | 253 | 252 | 257 | 321 | 324 | 328 | 437 | 442 | 446 | 420 | 424 | 428 | 679 | 685 | 692 | 574 |
| | | Electric Fan | 189 | 278 | 347 | 393 | 401 | 432 | 437 | 441 | 613 | 619 | 625 | 559 | 564 | 570 | 975 | 984 | 994 | 874 |
| | DuraPlate | 182 | 235 | 297 | 347 | 354 | 478 | 483 | 488 | 718 | 726 | 733 | 778 | 786 | 793 | 1276 | 1289 | 1302 | 1185 | |
| | 7,10 | None | 108 | 143 | 170 | 166 | 169 | 172 | 173 | 175 | 208 | 210 | 212 | * | * | * | 407 | 411 | 415 | * |
| | | Shaft Fan | 130 | 201 | 245 | 246 | 251 | 310 | 314 | 317 | 432 | 436 | 440 | 463 | 468 | 472 | 828 | 836 | 844 | 639 |
| | | Electric Fan | 191 | 278 | 336 | 382 | 390 | 415 | 420 | 424 | 601 | 607 | 613 | 605 | 611 | 617 | 1104 | 1115 | 1126 | 939 |
| | DuraPlate | 184 | 235 | 288 | 338 | 344 | 458 | 463 | 467 | 702 | 710 | 717 | 827 | 835 | 843 | 1442 | 1457 | 1471 | 1245 | |
| | 8,00 | None | 100 | 138 | 163 | 164 | 167 | 187 | 189 | 191 | 253 | 256 | 258 | 248 | 251 | 253 | 389 | 393 | 397 | 385 |
| | | Shaft Fan | 120 | 192 | 233 | 240 | 245 | 324 | 327 | 330 | 475 | 479 | 484 | 510 | 515 | 520 | 787 | 795 | 803 | 806 |
| | | Electric Fan | 177 | 265 | 318 | 369 | 377 | 427 | 431 | 436 | 639 | 646 | 652 | 641 | 648 | 654 | 1050 | 1060 | 1071 | 1084 |
| | DuraPlate | 149 | 198 | 264 | 277 | 282 | 380 | 384 | 388 | 586 | 592 | 598 | 652 | 659 | 665 | 1373 | 1387 | 1400 | 1425 | |
| | 9,00 | None | 96 | 130 | 163 | 164 | 168 | 185 | 187 | 189 | 249 | 251 | 254 | 248 | 250 | 253 | 407 | 411 | 415 | 381 |
| | | Shaft Fan | 115 | 182 | 232 | 240 | 244 | 320 | 323 | 326 | 462 | 467 | 471 | 506 | 511 | 517 | 806 | 814 | 823 | 788 |
| | | Electric Fan | 170 | 252 | 316 | 367 | 374 | 421 | 426 | 430 | 621 | 627 | 633 | 636 | 642 | 649 | 1067 | 1078 | 1089 | 1056 |
| | DuraPlate | 143 | 188 | 263 | 276 | 282 | 375 | 379 | 383 | 570 | 575 | 581 | 647 | 653 | 659 | 1386 | 1400 | 1414 | 1387 | |
| | 10,0 | None | 97 | 131 | 157 | 159 | 162 | 176 | 178 | 179 | 242 | 244 | 247 | 265 | 268 | 271 | 419 | 423 | 427 | 399 |
| | | Shaft Fan | 117 | 182 | 224 | 231 | 236 | 302 | 305 | 308 | 447 | 451 | 456 | 530 | 535 | 540 | 784 | 792 | 800 | 803 |
| | | Electric Fan | 172 | 250 | 304 | 354 | 361 | 398 | 401 | 405 | 599 | 605 | 611 | 660 | 667 | 674 | 1023 | 1033 | 1043 | 1068 |
| | DuraPlate | 145 | 188 | 253 | 266 | 272 | 354 | 358 | 361 | 550 | 555 | 561 | 671 | 678 | 685 | 1052 | 1063 | 1074 | 1393 | |
| 11,2 | None | 83 | 113 | 135 | 145 | 148 | 165 | 166 | 168 | 219 | 222 | 224 | 240 | 243 | 245 | 393 | 396 | 400 | 409 | |
| | Shaft Fan | 100 | 159 | 193 | 210 | 215 | 281 | 284 | 286 | 403 | 407 | 411 | 460 | 465 | 470 | 738 | 746 | 753 | 775 | |
| | Electric Fan | 149 | 221 | 263 | 322 | 328 | 368 | 372 | 376 | 540 | 546 | 551 | 570 | 576 | 582 | 965 | 975 | 985 | 1015 | |
| DuraPlate | 122 | 161 | 217 | 241 | 246 | 280 | 283 | 286 | 521 | 526 | 532 | 612 | 618 | 624 | 994 | 1004 | 1014 | 1045 | | |
| 12,5 | None | 80 | 107 | 135 | 145 | 148 | 162 | 164 | 166 | 213 | 215 | 218 | 237 | 240 | 242 | 403 | 407 | 411 | 396 | |
| | Shaft Fan | 96 | 151 | 192 | 210 | 214 | 277 | 279 | 282 | 390 | 394 | 398 | 455 | 459 | 464 | 749 | 756 | 764 | 749 | |
| | Electric Fan | 144 | 209 | 262 | 319 | 326 | 363 | 366 | 370 | 523 | 528 | 533 | 563 | 569 | 574 | 974 | 984 | 994 | 981 | |
| DuraPlate | 118 | 153 | 216 | 240 | 245 | 276 | 279 | 281 | 504 | 509 | 514 | 604 | 610 | 616 | 1002 | 1012 | 1022 | 1010 | | |
| 14,0 | None | 81 | 108 | 130 | 139 | 142 | 149 | 151 | 152 | 206 | 208 | 210 | 249 | 251 | 254 | 406 | 410 | 414 | 402 | |
| | Shaft Fan | 98 | 151 | 185 | 202 | 206 | 254 | 256 | 259 | 376 | 380 | 384 | 470 | 475 | 479 | 727 | 734 | 742 | 753 | |
| | Electric Fan | 145 | 208 | 252 | 307 | 313 | 332 | 335 | 339 | 503 | 508 | 513 | 580 | 585 | 591 | 936 | 945 | 954 | 982 | |
| DuraPlate | 119 | 153 | 208 | 231 | 235 | 253 | 256 | 258 | 486 | 490 | 495 | 621 | 627 | 634 | 791 | 799 | 807 | 1010 | | |
| 16,0 | None | 72 | 99 | 118 | 127 | 130 | 140 | 141 | 143 | 209 | 211 | 213 | 224 | 227 | 229 | 378 | 381 | 385 | 400 | |
| | Shaft Fan | 87 | 139 | 168 | 183 | 187 | 238 | 240 | 242 | 375 | 379 | 383 | 416 | 420 | 424 | 681 | 688 | 695 | 721 | |
| | Electric Fan | 129 | 192 | 228 | 279 | 284 | 312 | 315 | 318 | 499 | 504 | 509 | 512 | 517 | 522 | 880 | 889 | 897 | 931 | |
| DuraPlate | 96 | 139 | 167 | 184 | 188 | 207 | 209 | 211 | 398 | 402 | 406 | 446 | 451 | 455 | 742 | 750 | 757 | 786 | | |
| 18,0 | None | 69 | 93 | 118 | 127 | 129 | 138 | 139 | 140 | 202 | 204 | 206 | 224 | 224 | 225 | 385 | 389 | 393 | 384 | |
| | Shaft Fan | 83 | 131 | 167 | 183 | 186 | 234 | 236 | 239 | 362 | 365 | 369 | 410 | 415 | 419 | 689 | 696 | 703 | 694 | |
| | Electric Fan | 124 | 182 | 227 | 277 | 282 | 307 | 310 | 313 | 481 | 486 | 491 | 505 | 510 | 515 | 886 | 895 | 904 | 897 | |
| DuraPlate | 92 | 132 | 166 | 184 | 187 | 204 | 206 | 208 | 384 | 388 | 391 | 440 | 445 | 449 | 750 | 757 | 765 | 757 | | |
| 20,0 | None | 70 | 94 | 114 | 122 | 124 | 130 | 131 | 132 | 193 | 195 | 197 | 230 | 233 | 235 | 388 | 392 | 396 | 387 | |
| | Shaft Fan | 85 | 131 | 161 | 176 | 179 | 220 | 222 | 224 | 346 | 350 | 353 | 423 | 427 | 432 | 674 | 680 | 687 | 695 | |
| | Electric Fan | 126 | 181 | 219 | 266 | 272 | 289 | 292 | 295 | 460 | 465 | 469 | 518 | 524 | 529 | 857 | 866 | 875 | 895 | |
| DuraPlate | 93 | 132 | 160 | 177 | 180 | 191 | 193 | 195 | 367 | 371 | 375 | 453 | 458 | 462 | 849 | 858 | 866 | 756 | | |
| 22,4 | None | 67 | 90 | 109 | 115 | 117 | 147 | 148 | 150 | 192 | 194 | 196 | 246 | 249 | 251 | 360 | 364 | 368 | 383 | |
| | Shaft Fan | 81 | 128 | 152 | 164 | 167 | 242 | 244 | 247 | 333 | 336 | 340 | 430 | 434 | 438 | 630 | 637 | 643 | 669 | |
| | Electric Fan | 121 | 181 | 205 | 246 | 250 | 312 | 315 | 318 | 437 | 441 | 445 | 517 | 522 | 527 | 805 | 813 | 821 | 854 | |
| DuraPlate | 89 | 121 | 139 | 150 | 153 | 193 | 195 | 197 | 305 | 308 | 312 | 396 | 400 | 404 | 797 | 805 | 813 | 846 | | |
| 25,0 | None | 64 | 86 | 109 | 115 | 117 | 145 | 146 | 148 | 185 | 187 | 189 | 242 | 244 | 247 | 394 | 398 | 401 | 367 | |
| | Shaft Fan | 78 | 122 | 152 | 163 | 166 | 239 | 241 | 244 | 322 | 325 | 328 | 423 | 427 | 431 | 696 | 702 | 709 | 643 | |
| | Electric Fan | 116 | 172 | 204 | 244 | 249 | 308 | 311 | 314 | 422 | 426 | 430 | 509 | 514 | 520 | 893 | 902 | 910 | 821 | |
| DuraPlate | 85 | 112 | 139 | 150 | 153 | 191 | 193 | 195 | 295 | 298 | 301 | 390 | 394 | 398 | 884 | 893 | 901 | 813 | | |
| 28,0 | None | 66 | 86 | 105 | 111 | 113 | 135 | 136 | 138 | 178 | 180 | 182 | 252 | 254 | 257 | | | | 395 | |
| | Shaft Fan | 79 | 121 | 146 | 157 | 160 | 223 | 225 | 227 | 309 | 312 | 315 | 436 | 440 | 444 | | | | 700 | |
| | Electric Fan | 117 | 170 | 197 | 235 | 240 | 288 | 291 | 294 | 405 | 409 | 413 | 523 | 528 | 533 | | | | 900 | |
| DuraPlate | 86 | 111 | 134 | 144 | 147 | 178 | 180 | 182 | 284 | 286 | 289 | 402 | 406 | 410 | | | | 891 | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP2 Parallel Shaft

Basic Thermal Ratings ★ – kW/Double Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|---------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1200 | 5,00 | None | * | * | * | | | * | * | * | | | |
| | | Shaft Fan | * | * | * | | | * | * | * | | | |
| | | Electric Fan | 867 | 876 | 885 | | | * | * | * | | | |
| | | DuraPlate | 1889 | 1908 | 1927 | | | 1093 | 1104 | 1115 | | | |
| | 5,60 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 632 | 638 | 644 | * | * | * | * | * | * | * | * |
| | | Electric Fan | 964 | 973 | 983 | 799 | 815 | * | * | * | * | * | * |
| | | DuraPlate | 1973 | 1992 | 2012 | 1623 | 1656 | 1522 | 1537 | 1553 | * | * | * |
| | 6,30 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 645 | 651 | 657 | * | * | * | * | * | * | * | * |
| | | Electric Fan | 964 | 973 | 983 | 987 | 1006 | 370 | 374 | 377 | * | * | * |
| | | DuraPlate | 1944 | 1964 | 1983 | 1785 | 1821 | 1661 | 1677 | 1694 | * | * | * |
| | 7,10 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 902 | 911 | 920 | * | * | 969 | 979 | 988 | * | * | * |
| | | Electric Fan | 1185 | 1197 | 1209 | 1022 | 1042 | 1429 | 1443 | 1457 | * | * | * |
| | | DuraPlate | 1615 | 1631 | 1647 | 1789 | 1825 | 1828 | 1847 | 1865 | 1120 | 1131 | 1142 |
| | 8,00 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 911 | 921 | 930 | 1031 | 1051 | 1037 | 1048 | 1058 | 697 | 704 | 711 |
| | | Electric Fan | 1184 | 1196 | 1208 | 1380 | 1408 | 1474 | 1489 | 1504 | 1145 | 1156 | 1168 |
| | | DuraPlate | 1608 | 1624 | 1640 | 1532 | 1563 | 1853 | 1872 | 1890 | 1542 | 1558 | 1573 |
| 9,00 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 880 | 889 | 898 | 1075 | 1096 | 1041 | 1051 | 1062 | 840 | 848 | 857 | |
| | Electric Fan | 1144 | 1156 | 1167 | 1414 | 1443 | 1463 | 1477 | 1492 | 1269 | 1282 | 1295 | |
| | DuraPlate | 1554 | 1570 | 1585 | 1562 | 1593 | 1830 | 1848 | 1866 | 1647 | 1663 | 1680 | |
| 10,0 | None | 366 | 370 | 373 | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 902 | 911 | 920 | 1045 | 1066 | 1382 | 1396 | 1410 | 876 | 885 | 894 | |
| | Electric Fan | 1143 | 1154 | 1166 | 1374 | 1401 | 1768 | 1786 | 1804 | 1292 | 1305 | 1317 | |
| | DuraPlate | 1236 | 1249 | 1261 | 1516 | 1547 | 2760 | 2787 | 2815 | 1657 | 1673 | 1690 | |
| 11,2 | None | 371 | 375 | 379 | 420 | 428 | * | * | * | * | * | * | |
| | Shaft Fan | 893 | 902 | 911 | 1075 | 1096 | 1337 | 1350 | 1364 | 1287 | 1300 | 1313 | |
| | Electric Fan | 1125 | 1137 | 1148 | 1371 | 1399 | 1705 | 1722 | 1739 | 1672 | 1689 | 1706 | |
| | DuraPlate | 1221 | 1233 | 1245 | 1197 | 1221 | 2653 | 2679 | 2706 | 2667 | 2693 | 2720 | |
| 12,5 | None | 354 | 358 | 361 | 440 | 449 | * | * | * | * | * | * | |
| | Shaft Fan | 857 | 866 | 874 | 1086 | 1108 | 1294 | 1306 | 1319 | 1263 | 1276 | 1289 | |
| | Electric Fan | 1083 | 1094 | 1105 | 1375 | 1402 | 1650 | 1667 | 1683 | 1630 | 1646 | 1662 | |
| | DuraPlate | 1174 | 1185 | 1197 | 1205 | 1229 | 2574 | 2599 | 2625 | 2578 | 2604 | 2630 | |
| 14,0 | None | 364 | 367 | 371 | 423 | 431 | 597 | 603 | 609 | * | * | * | |
| | Shaft Fan | 813 | 821 | 829 | 1045 | 1066 | 1423 | 1437 | 1451 | 1231 | 1243 | 1255 | |
| | Electric Fan | 1014 | 1024 | 1034 | 1326 | 1352 | 1751 | 1769 | 1786 | 1586 | 1602 | 1618 | |
| | DuraPlate | 1345 | 1358 | 1371 | 1161 | 1184 | 2008 | 2028 | 2048 | 2509 | 2534 | 2559 | |
| 16,0 | None | 362 | 366 | 370 | 432 | 440 | 566 | 572 | 577 | 569 | 575 | 581 | |
| | Shaft Fan | 799 | 807 | 815 | 981 | 1001 | 1350 | 1364 | 1377 | 1388 | 1402 | 1416 | |
| | Electric Fan | 994 | 1004 | 1014 | 1229 | 1253 | 1664 | 1680 | 1697 | 1716 | 1733 | 1750 | |
| | DuraPlate | 1317 | 1330 | 1343 | 1322 | 1348 | 1910 | 1929 | 1948 | 1973 | 1992 | 2012 | |
| 18,0 | None | 344 | 348 | 351 | 442 | 450 | 540 | 545 | 551 | 543 | 548 | 554 | |
| | Shaft Fan | 767 | 775 | 782 | 982 | 1002 | 1297 | 1310 | 1323 | 1319 | 1332 | 1346 | |
| | Electric Fan | 957 | 966 | 976 | 1223 | 1248 | 1602 | 1618 | 1634 | 1632 | 1648 | 1664 | |
| | DuraPlate | 1268 | 1281 | 1294 | 1314 | 1340 | 1841 | 1860 | 1878 | 1877 | 1896 | 1914 | |
| 20,0 | None | 366 | 370 | 374 | 421 | 429 | 596 | 602 | 608 | 520 | 525 | 530 | |
| | Shaft Fan | 781 | 789 | 797 | 944 | 963 | 1357 | 1370 | 1384 | 1269 | 1282 | 1295 | |
| | Electric Fan | 970 | 980 | 990 | 1178 | 1202 | 1666 | 1683 | 1700 | 1573 | 1589 | 1604 | |
| | DuraPlate | 1050 | 1061 | 1071 | 1266 | 1292 | 1646 | 1662 | 1679 | 1812 | 1830 | 1848 | |
| 22,4 | None | 370 | 374 | 378 | 439 | 448 | 587 | 593 | 599 | 595 | 601 | 607 | |
| | Shaft Fan | 816 | 824 | 832 | 946 | 965 | 1332 | 1346 | 1359 | 1350 | 1363 | 1377 | |
| | Electric Fan | 977 | 987 | 997 | 1178 | 1202 | 1636 | 1652 | 1669 | 1658 | 1675 | 1691 | |
| | DuraPlate | 1059 | 1069 | 1080 | 1031 | 1052 | 1504 | 1519 | 1534 | 1637 | 1654 | 1670 | |
| 25,0 | None | 349 | 353 | 356 | 456 | 465 | 577 | 583 | 589 | 590 | 596 | 602 | |
| | Shaft Fan | 779 | 787 | 795 | 1011 | 1031 | 1296 | 1309 | 1322 | 1329 | 1342 | 1356 | |
| | Electric Fan | 936 | 946 | 955 | 1213 | 1237 | 1590 | 1606 | 1622 | 1631 | 1648 | 1664 | |
| | DuraPlate | 1012 | 1022 | 1032 | 1064 | 1085 | 1462 | 1477 | 1491 | 1500 | 1515 | 1530 | |
| 28,0 | None | | | | 432 | 440 | | | | 561 | 566 | 572 | |
| | Shaft Fan | | | | 966 | 986 | | | | 1273 | 1286 | 1298 | |
| | Electric Fan | | | | 1163 | 1186 | | | | 1565 | 1581 | 1597 | |
| | DuraPlate | | | | 1018 | 1038 | | | | 1438 | 1452 | 1466 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP2 Parallel Shaft

Basic Thermal Ratings [★] – kW/Double Reduction Maximum 82°C Sump Temperature[†]

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|-----------|--------------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1000 | 5,00 | None | | | | | | | | | | | | | | | 354 | 357 | 361 | |
| | | Shaft Fan | | | | | | | | | | | | | | | 700 | 707 | 714 | |
| | | Electric Fan | | | | | | | | | | | | | | | 1105 | 1116 | 1127 | |
| | 5,60 | DuraPlate | | | | | | | | | | | | | | | 1624 | 1640 | 1656 | |
| | | None | 106 | 143 | 170 | 168 | 172 | 187 | 189 | 191 | 236 | 238 | 240 | 227 | 229 | 232 | 354 | 357 | 361 | * |
| | | Shaft Fan | 120 | 183 | 222 | 224 | 228 | 295 | 298 | 300 | 411 | 415 | 419 | 435 | 440 | 444 | 682 | 689 | 695 | 659 |
| | 6,30 | Electric Fan | 189 | 280 | 335 | 383 | 390 | 440 | 444 | 448 | 638 | 644 | 651 | 639 | 645 | 651 | 1067 | 1077 | 1088 | 1065 |
| | | DuraPlate | 168 | 220 | 268 | 309 | 315 | 431 | 435 | 439 | 652 | 659 | 665 | 739 | 747 | 754 | 1562 | 1577 | 1593 | 1184 |
| | | None | 102 | 136 | 171 | 170 | 173 | 187 | 189 | 191 | 237 | 240 | 242 | 230 | 232 | 235 | 385 | 389 | 393 | * |
| | 7,10 | Shaft Fan | 116 | 175 | 222 | 225 | 229 | 293 | 295 | 298 | 407 | 411 | 415 | 436 | 440 | 445 | 716 | 723 | 730 | 662 |
| | | Electric Fan | 181 | 266 | 334 | 381 | 389 | 435 | 439 | 444 | 626 | 632 | 638 | 637 | 643 | 649 | 1099 | 1110 | 1121 | 1055 |
| | | DuraPlate | 162 | 209 | 268 | 309 | 315 | 426 | 431 | 435 | 639 | 646 | 652 | 736 | 743 | 751 | 1587 | 1603 | 1619 | 1171 |
| | 8,00 | None | 104 | 138 | 166 | 165 | 169 | 180 | 182 | 183 | 234 | 236 | 239 | 255 | 257 | 260 | 458 | 463 | 468 | 364 |
| | | Shaft Fan | 118 | 175 | 215 | 218 | 223 | 279 | 282 | 285 | 398 | 402 | 406 | 467 | 472 | 476 | 769 | 777 | 784 | 698 |
| | | Electric Fan | 184 | 265 | 323 | 370 | 377 | 413 | 417 | 422 | 608 | 614 | 620 | 671 | 677 | 684 | 1124 | 1135 | 1146 | 1087 |
| | 9,00 | DuraPlate | 164 | 210 | 259 | 300 | 306 | 405 | 409 | 413 | 622 | 628 | 634 | 771 | 779 | 786 | 1276 | 1289 | 1302 | 1201 |
| | | None | 95 | 131 | 156 | 159 | 162 | 186 | 188 | 190 | 257 | 260 | 262 | 274 | 277 | 279 | 432 | 436 | 440 | 444 |
| | | Shaft Fan | 108 | 167 | 202 | 209 | 213 | 284 | 287 | 289 | 418 | 422 | 426 | 468 | 472 | 477 | 725 | 732 | 740 | 755 |
| | 10,0 | Electric Fan | 169 | 252 | 302 | 353 | 360 | 415 | 420 | 424 | 622 | 629 | 635 | 654 | 660 | 667 | 1062 | 1073 | 1083 | 1112 |
| | | DuraPlate | 134 | 179 | 235 | 247 | 252 | 338 | 341 | 345 | 517 | 522 | 527 | 594 | 600 | 606 | 1208 | 1220 | 1232 | 1266 |
| | | None | 91 | 124 | 156 | 159 | 162 | 184 | 185 | 187 | 250 | 253 | 255 | 271 | 274 | 277 | 445 | 450 | 454 | 432 |
| | 11,2 | Shaft Fan | 104 | 158 | 201 | 208 | 213 | 280 | 283 | 285 | 405 | 409 | 413 | 462 | 467 | 472 | 739 | 746 | 754 | 732 |
| | | Electric Fan | 162 | 239 | 300 | 350 | 357 | 409 | 413 | 417 | 602 | 608 | 614 | 646 | 652 | 659 | 1073 | 1084 | 1095 | 1077 |
| | | DuraPlate | 129 | 169 | 234 | 246 | 251 | 333 | 336 | 340 | 500 | 505 | 510 | 587 | 593 | 599 | 1217 | 1229 | 1241 | 1226 |
| | 12,5 | None | 93 | 125 | 150 | 153 | 156 | 173 | 175 | 177 | 242 | 244 | 247 | 286 | 289 | 292 | 428 | 432 | 437 | 442 |
| | | Shaft Fan | 105 | 158 | 194 | 201 | 205 | 263 | 266 | 269 | 391 | 395 | 398 | 482 | 486 | 491 | 695 | 702 | 709 | 740 |
| | | Electric Fan | 164 | 237 | 289 | 337 | 344 | 384 | 388 | 392 | 580 | 585 | 591 | 667 | 674 | 680 | 1001 | 1011 | 1021 | 1079 |
| | 14,0 | DuraPlate | 131 | 169 | 225 | 237 | 242 | 313 | 316 | 319 | 482 | 487 | 492 | 608 | 614 | 620 | 926 | 935 | 944 | 1226 |
| None | | 80 | 107 | 128 | 138 | 141 | 160 | 161 | 163 | 214 | 217 | 219 | 243 | 245 | 248 | 399 | 403 | 407 | 420 | |
| Shaft Fan | | 90 | 137 | 166 | 181 | 185 | 242 | 245 | 247 | 347 | 350 | 354 | 404 | 408 | 412 | 652 | 658 | 665 | 688 | |
| 16,0 | Electric Fan | 142 | 208 | 249 | 305 | 311 | 354 | 357 | 361 | 517 | 522 | 527 | 559 | 564 | 570 | 942 | 951 | 961 | 995 | |
| | DuraPlate | 111 | 144 | 192 | 213 | 217 | 250 | 253 | 255 | 450 | 455 | 459 | 536 | 542 | 547 | 870 | 879 | 888 | 919 | |
| | None | 76 | 101 | 128 | 138 | 140 | 157 | 159 | 160 | 208 | 210 | 212 | 239 | 242 | 244 | 408 | 412 | 416 | 405 | |
| 18,0 | Shaft Fan | 86 | 130 | 165 | 180 | 184 | 238 | 241 | 243 | 335 | 339 | 342 | 398 | 402 | 406 | 661 | 667 | 674 | 663 | |
| | Electric Fan | 137 | 198 | 247 | 302 | 308 | 348 | 351 | 355 | 499 | 504 | 509 | 551 | 556 | 562 | 949 | 958 | 968 | 960 | |
| | DuraPlate | 106 | 136 | 191 | 212 | 216 | 246 | 249 | 251 | 435 | 440 | 444 | 529 | 534 | 539 | 878 | 887 | 896 | 886 | |
| 20,0 | None | 78 | 102 | 123 | 133 | 135 | 145 | 146 | 147 | 200 | 202 | 204 | 250 | 252 | 255 | 395 | 399 | 403 | 409 | |
| | Shaft Fan | 88 | 130 | 159 | 174 | 177 | 219 | 221 | 223 | 323 | 326 | 330 | 412 | 416 | 420 | 629 | 636 | 642 | 665 | |
| | Electric Fan | 138 | 196 | 238 | 291 | 296 | 318 | 322 | 325 | 481 | 485 | 490 | 566 | 572 | 578 | 896 | 905 | 914 | 958 | |
| 22,4 | DuraPlate | 108 | 137 | 184 | 204 | 208 | 226 | 228 | 230 | 419 | 423 | 427 | 544 | 550 | 555 | 697 | 704 | 711 | 886 | |
| | None | 67 | 93 | 111 | 120 | 122 | 134 | 136 | 137 | 200 | 202 | 204 | 219 | 221 | 223 | 367 | 371 | 375 | 390 | |
| | Shaft Fan | 76 | 119 | 144 | 157 | 160 | 204 | 206 | 208 | 319 | 323 | 326 | 359 | 362 | 366 | 588 | 594 | 600 | 624 | |
| 25,0 | Electric Fan | 121 | 181 | 215 | 263 | 268 | 298 | 301 | 304 | 473 | 478 | 483 | 493 | 498 | 503 | 841 | 850 | 858 | 892 | |
| | DuraPlate | 85 | 124 | 149 | 164 | 168 | 187 | 189 | 191 | 347 | 351 | 354 | 393 | 397 | 401 | 652 | 659 | 665 | 692 | |
| | None | 64 | 88 | 111 | 120 | 122 | 132 | 133 | 135 | 192 | 194 | 196 | 215 | 218 | 220 | 374 | 378 | 382 | 374 | |
| 28,0 | Shaft Fan | 73 | 112 | 144 | 156 | 159 | 200 | 202 | 204 | 308 | 311 | 314 | 353 | 357 | 360 | 595 | 601 | 607 | 600 | |
| | Electric Fan | 116 | 172 | 214 | 261 | 266 | 293 | 296 | 299 | 456 | 460 | 465 | 486 | 491 | 496 | 847 | 855 | 864 | 858 | |
| | DuraPlate | 81 | 117 | 149 | 164 | 167 | 184 | 186 | 188 | 334 | 338 | 341 | 387 | 391 | 395 | 659 | 666 | 673 | 665 | |
| 31,5 | None | 65 | 88 | 107 | 115 | 118 | 124 | 125 | 127 | 185 | 186 | 188 | 224 | 227 | 229 | 369 | 373 | 377 | 376 | |
| | Shaft Fan | 74 | 113 | 138 | 150 | 153 | 188 | 190 | 192 | 295 | 298 | 301 | 365 | 369 | 372 | 577 | 583 | 589 | 600 | |
| | Electric Fan | 117 | 170 | 206 | 251 | 256 | 275 | 278 | 281 | 436 | 440 | 444 | 499 | 504 | 509 | 812 | 820 | 828 | 855 | |
| 35,0 | DuraPlate | 83 | 117 | 144 | 157 | 161 | 173 | 175 | 176 | 320 | 323 | 327 | 400 | 404 | 408 | 730 | 738 | 745 | 665 | |
| | None | 64 | 86 | 101 | 108 | 110 | 138 | 139 | 141 | 181 | 183 | 184 | 233 | 235 | 238 | 342 | 346 | 349 | 364 | |
| | Shaft Fan | 73 | 110 | 130 | 140 | 143 | 205 | 207 | 209 | 283 | 285 | 288 | 366 | 370 | 373 | 538 | 544 | 549 | 572 | |
| 40,0 | Electric Fan | 115 | 172 | 192 | 231 | 235 | 293 | 296 | 299 | 411 | 415 | 419 | 488 | 493 | 498 | 761 | 769 | 776 | 808 | |
| | DuraPlate | 81 | 110 | 125 | N/A | N/A | N/A | N/A | N/A | 269 | 272 | 274 | 350 | 354 | 357 | 684 | 691 | 697 | 726 | |
| | None | 61 | 81 | 101 | 108 | 110 | 136 | 137 | 139 | 174 | 176 | 178 | 229 | 231 | 233 | 373 | 377 | 380 | 348 | |
| 45,0 | Shaft Fan | 69 | 105 | 130 | 139 | 142 | 202 | 204 | 206 | 273 | 275 | 278 | 360 | 364 | 367 | 592 | 598 | 604 | 549 | |
| | Electric Fan | 110 | 163 | 191 | 229 | 234 | 289 | 292 | 295 | 397 | 401 | 405 | 481 | 486 | 490 | 842 | 851 | 859 | 776 | |
| | DuraPlate | 77 | 102 | 125 | N/A | N/A | N/A | N/A | N/A | 260 | 262 | 265 | 344 | 348 | 351 | 755 | 763 | 770 | 697 | |
| 50,0 | None | 62 | 81 | 98 | 104 | 106 | 127 | 128 | 129 | 168 | 169 | 171 | 238 | 241 | 243 | | | | 374 | |
| | Shaft Fan | 71 | 105 | 125 | 134 | 137 | 188 | 190 | 192 | 262 | 265 | 267 | 372 | 376 | 379 | | | | 595 | |
| | Electric Fan | 111 | 161 | 184 | 221 | 225 | 270 | 273 | 275 | 381 | 385 | 389 | 494 | 499 | 503 | | | | 849 | |
| 56,0 | DuraPlate | 79 | 101 | 120 | N/A | N/A | N/A | N/A | N/A | 250 | 252 | 255 | 356 | 360 | 363 | | | | 761 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP2 Parallel Shaft

Basic Thermal Ratings ★ – kW/Double Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|-----------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1000 | 5,00 | None | * | * | * | | | * | * | * | | | |
| | | Shaft Fan | 707 | 714 | 721 | | | * | * | * | | | |
| | | Electric Fan | 1155 | 1167 | 1178 | | | 1012 | 1022 | 1032 | | | |
| | 5,60 | DuraPlate | 1853 | 1871 | 1890 | | | 1864 | 1883 | 1902 | | | |
| | | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 758 | 765 | 773 | 719 | 734 | * | * | * | * | * | * |
| | 6,30 | Electric Fan | 1190 | 1202 | 1214 | 1271 | 1296 | 1216 | 1228 | 1240 | * | * | * |
| | | DuraPlate | 1879 | 1897 | 1916 | 1700 | 1734 | 2026 | 2046 | 2067 | 1342 | 1355 | 1368 |
| | | None | * | * | * | * | * | * | * | * | * | * | * |
| | 7,10 | Shaft Fan | 745 | 752 | 760 | 825 | 841 | 608 | 614 | 620 | * | * | * |
| | | Electric Fan | 1162 | 1173 | 1185 | 1364 | 1392 | 1269 | 1282 | 1295 | 858 | 867 | 876 |
| | | DuraPlate | 1830 | 1848 | 1866 | 1779 | 1815 | 2052 | 2073 | 2093 | 1656 | 1673 | 1689 |
| | 8,00 | None | 378 | 382 | 386 | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 848 | 856 | 865 | 828 | 845 | 1183 | 1194 | 1206 | * | * | * |
| | | Electric Fan | 1221 | 1233 | 1245 | 1347 | 1374 | 1822 | 1840 | 1858 | 971 | 981 | 991 |
| | 9,00 | DuraPlate | 1456 | 1470 | 1485 | 1748 | 1783 | 1880 | 1899 | 1918 | 1745 | 1763 | 1780 |
| | | None | 390 | 394 | 398 | 422 | 430 | * | * | * | * | * | * |
| | | Shaft Fan | 847 | 855 | 864 | 994 | 1013 | 1181 | 1193 | 1205 | 1022 | 1032 | 1043 |
| | 10,0 | Electric Fan | 1207 | 1219 | 1231 | 1453 | 1482 | 1788 | 1806 | 1823 | 1657 | 1674 | 1690 |
| | | DuraPlate | 1440 | 1455 | 1469 | 1402 | 1430 | 1844 | 1862 | 1880 | 1716 | 1733 | 1750 |
| | | None | 374 | 377 | 381 | 453 | 462 | * | * | * | * | * | * |
| | 11,2 | Shaft Fan | 813 | 821 | 830 | 1018 | 1038 | 1155 | 1166 | 1178 | 1062 | 1073 | 1084 |
| | | Electric Fan | 1162 | 1174 | 1185 | 1465 | 1495 | 1742 | 1759 | 1777 | 1665 | 1682 | 1698 |
| | | DuraPlate | 1386 | 1400 | 1414 | 1415 | 1444 | 1796 | 1814 | 1832 | 1721 | 1738 | 1755 |
| | 12,5 | None | 394 | 398 | 402 | 438 | 447 | 577 | 583 | 588 | * | * | * |
| | | Shaft Fan | 797 | 805 | 813 | 982 | 1001 | 1302 | 1315 | 1328 | 1055 | 1066 | 1076 |
| | | Electric Fan | 1117 | 1128 | 1139 | 1415 | 1443 | 1836 | 1854 | 1873 | 1638 | 1654 | 1671 |
| | 14,0 | DuraPlate | 1097 | 1108 | 1119 | 1366 | 1394 | 2405 | 2429 | 2453 | 1692 | 1709 | 1726 |
| None | | 395 | 399 | 403 | 463 | 472 | 557 | 563 | 569 | 526 | 532 | 537 | |
| Shaft Fan | | 787 | 795 | 803 | 956 | 975 | 1245 | 1258 | 1270 | 1242 | 1255 | 1267 | |
| 16,0 | Electric Fan | 1096 | 1107 | 1118 | 1349 | 1376 | 1755 | 1772 | 1790 | 1775 | 1793 | 1811 | |
| | DuraPlate | 1081 | 1092 | 1103 | 1068 | 1089 | 2299 | 2322 | 2345 | 2345 | 2368 | 2392 | |
| | None | 375 | 379 | 383 | 477 | 486 | 536 | 541 | 546 | 518 | 523 | 528 | |
| 18,0 | Shaft Fan | 754 | 762 | 769 | 963 | 982 | 1199 | 1211 | 1223 | 1197 | 1209 | 1221 | |
| | Electric Fan | 1054 | 1064 | 1075 | 1346 | 1373 | 1693 | 1710 | 1727 | 1704 | 1721 | 1738 | |
| | DuraPlate | 1037 | 1047 | 1057 | 1072 | 1094 | 2223 | 2245 | 2267 | 2248 | 2270 | 2293 | |
| 20,0 | None | 361 | 364 | 368 | 455 | 464 | 619 | 625 | 631 | 502 | 507 | 512 | |
| | Shaft Fan | 699 | 706 | 713 | 924 | 942 | 1242 | 1255 | 1267 | 1156 | 1168 | 1180 | |
| | Electric Fan | 967 | 976 | 986 | 1296 | 1322 | 1698 | 1715 | 1732 | 1649 | 1665 | 1681 | |
| 22,4 | DuraPlate | 1145 | 1157 | 1168 | 1030 | 1051 | 1722 | 1739 | 1757 | 2178 | 2200 | 2221 | |
| | None | 359 | 362 | 366 | 431 | 440 | 583 | 589 | 595 | 598 | 604 | 610 | |
| | Shaft Fan | 688 | 695 | 702 | 845 | 862 | 1175 | 1187 | 1199 | 1216 | 1228 | 1240 | |
| 25,0 | Electric Fan | 947 | 956 | 966 | 1174 | 1197 | 1611 | 1627 | 1643 | 1671 | 1688 | 1704 | |
| | DuraPlate | 1123 | 1134 | 1145 | 1126 | 1148 | 1633 | 1650 | 1666 | 1695 | 1712 | 1729 | |
| | None | 340 | 344 | 347 | 439 | 448 | 555 | 561 | 566 | 565 | 570 | 576 | |
| 28,0 | Shaft Fan | 659 | 666 | 672 | 846 | 863 | 1127 | 1138 | 1149 | 1151 | 1162 | 1174 | |
| | Electric Fan | 911 | 920 | 929 | 1167 | 1191 | 1549 | 1565 | 1580 | 1584 | 1600 | 1616 | |
| | DuraPlate | 1079 | 1090 | 1101 | 1121 | 1143 | 1572 | 1587 | 1603 | 1607 | 1623 | 1639 | |
| 31,5 | None | 348 | 352 | 355 | 417 | 426 | 589 | 595 | 601 | 539 | 544 | 549 | |
| | Shaft Fan | 661 | 668 | 674 | 812 | 828 | 1165 | 1176 | 1188 | 1104 | 1115 | 1126 | |
| | Electric Fan | 913 | 922 | 932 | 1124 | 1146 | 1596 | 1612 | 1628 | 1525 | 1540 | 1556 | |
| 35,0 | DuraPlate | 897 | 906 | 915 | 1078 | 1100 | 1410 | 1424 | 1438 | 1547 | 1563 | 1578 | |
| | None | 352 | 356 | 359 | 418 | 426 | 577 | 583 | 589 | 583 | 589 | 594 | |
| | Shaft Fan | 667 | 673 | 680 | 800 | 816 | 1140 | 1152 | 1163 | 1153 | 1164 | 1176 | |
| 40,0 | Electric Fan | 919 | 929 | 938 | 1110 | 1132 | 1563 | 1579 | 1594 | 1582 | 1598 | 1614 | |
| | DuraPlate | 904 | 913 | 922 | 880 | 898 | 1293 | 1306 | 1319 | 1396 | 1410 | 1424 | |
| | None | 332 | 335 | 339 | 435 | 443 | 558 | 564 | 569 | 573 | 578 | 584 | |
| 45,0 | Shaft Fan | 635 | 641 | 647 | 826 | 843 | 1101 | 1112 | 1123 | 1130 | 1142 | 1153 | |
| | Electric Fan | 880 | 889 | 898 | 1142 | 1165 | 1510 | 1525 | 1540 | 1551 | 1567 | 1582 | |
| | DuraPlate | 862 | 871 | 879 | 908 | 926 | 1248 | 1261 | 1273 | 1282 | 1295 | 1308 | |
| 50,0 | None | | | | 411 | 419 | | | | 544 | 549 | 555 | |
| | Shaft Fan | | | | 788 | 803 | | | | 1080 | 1091 | 1102 | |
| | Electric Fan | | | | 1094 | 1116 | | | | 1487 | 1502 | 1517 | |
| 56,0 | DuraPlate | | | | 867 | 884 | | | | 1227 | 1239 | 1251 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP2 Parallel Shaft

Basic Thermal Ratings ★ – kW/Double Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|-----------|-----------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 900 | 5,00 | None | | | | | | | | | | | | | | 418 | 422 | 426 | | |
| | | Electric Fan | | | | | | | | | | | | | | 707 | 714 | 721 | | |
| | | DuraPlate | | | | | | | | | | | | | | 1154 | 1166 | 1177 | | |
| | 5,60 | None | 104 | 140 | 167 | 167 | 170 | 190 | 192 | 194 | 247 | 249 | 252 | 256 | 258 | 261 | 406 | 410 | 414 | 389 |
| | | Shaft Fan | 117 | 170 | 206 | 208 | 213 | 277 | 280 | 283 | 391 | 394 | 398 | 430 | 434 | 438 | 680 | 687 | 693 | 677 |
| | | DuraPlate | 159 | 208 | 251 | 289 | 294 | 404 | 408 | 412 | 608 | 614 | 620 | 706 | 713 | 720 | 1129 | 1140 | 1151 | 1151 |
| | 6,30 | None | 100 | 133 | 167 | 168 | 171 | 189 | 191 | 193 | 245 | 247 | 250 | 256 | 259 | 261 | 431 | 436 | 440 | 392 |
| | | Shaft Fan | 113 | 161 | 206 | 209 | 213 | 274 | 277 | 280 | 384 | 388 | 392 | 428 | 432 | 436 | 706 | 713 | 720 | 670 |
| | | DuraPlate | 153 | 197 | 250 | 288 | 294 | 399 | 403 | 407 | 594 | 600 | 606 | 700 | 707 | 714 | 1152 | 1164 | 1175 | 1129 |
| | 7,10 | None | 101 | 134 | 162 | 163 | 166 | 180 | 182 | 184 | 240 | 242 | 245 | 278 | 281 | 283 | 471 | 475 | 480 | 418 |
| | | Shaft Fan | 115 | 162 | 199 | 203 | 207 | 261 | 263 | 266 | 374 | 378 | 381 | 454 | 459 | 463 | 726 | 734 | 741 | 695 |
| | | DuraPlate | 155 | 198 | 242 | 279 | 285 | 378 | 381 | 385 | 576 | 581 | 587 | 730 | 737 | 745 | 1183 | 1195 | 1206 | 1148 |
| | 8,00 | None | 93 | 127 | 151 | 155 | 158 | 183 | 185 | 187 | 255 | 257 | 260 | 280 | 282 | 285 | 441 | 445 | 450 | 459 |
| | | Shaft Fan | 105 | 154 | 186 | 192 | 196 | 262 | 265 | 267 | 386 | 390 | 394 | 440 | 444 | 448 | 683 | 689 | 696 | 715 |
| | | DuraPlate | 127 | 169 | 220 | 231 | 236 | 316 | 319 | 322 | 479 | 484 | 489 | 558 | 564 | 569 | 1116 | 1127 | 1138 | 1174 |
| | 9,00 | None | 89 | 120 | 151 | 155 | 158 | 181 | 183 | 184 | 247 | 250 | 252 | 276 | 279 | 282 | 453 | 457 | 462 | 444 |
| | | Shaft Fan | 101 | 145 | 185 | 192 | 196 | 258 | 261 | 263 | 374 | 377 | 381 | 434 | 438 | 443 | 694 | 701 | 708 | 691 |
| | | DuraPlate | 122 | 159 | 219 | 230 | 235 | 311 | 314 | 317 | 463 | 468 | 472 | 551 | 556 | 562 | 1124 | 1135 | 1147 | 1134 |
| | 10,0 | None | 91 | 121 | 145 | 149 | 152 | 170 | 172 | 173 | 239 | 241 | 243 | 291 | 293 | 296 | 425 | 430 | 434 | 452 |
| | | Shaft Fan | 102 | 146 | 178 | 185 | 189 | 243 | 245 | 247 | 360 | 364 | 367 | 451 | 456 | 460 | 645 | 651 | 658 | 696 |
| | | DuraPlate | 124 | 160 | 210 | 222 | 226 | 292 | 295 | 298 | 446 | 450 | 455 | 570 | 575 | 581 | 858 | 867 | 875 | 1133 |
| | 11,2 | None | 77 | 104 | 123 | 134 | 136 | 156 | 158 | 159 | 210 | 212 | 214 | 241 | 243 | 246 | 396 | 400 | 404 | 419 |
| | | Shaft Fan | 88 | 126 | 152 | 166 | 169 | 222 | 225 | 227 | 318 | 321 | 324 | 373 | 377 | 380 | 603 | 609 | 615 | 638 |
| | | DuraPlate | 103 | 136 | 179 | 198 | 202 | 235 | 237 | 239 | 414 | 418 | 422 | 495 | 500 | 505 | 805 | 814 | 822 | 852 |
| | 12,5 | None | 74 | 98 | 123 | 133 | 136 | 154 | 155 | 157 | 203 | 205 | 207 | 237 | 240 | 242 | 404 | 408 | 412 | 402 |
| | | Shaft Fan | 84 | 119 | 152 | 165 | 169 | 219 | 221 | 223 | 307 | 310 | 313 | 367 | 371 | 375 | 611 | 618 | 624 | 614 |
| | | DuraPlate | 99 | 129 | 178 | 197 | 201 | 231 | 233 | 235 | 399 | 403 | 407 | 488 | 493 | 498 | 748 | 757 | 765 | 821 |
| | 14,0 | None | 75 | 99 | 119 | 128 | 131 | 141 | 142 | 144 | 196 | 198 | 199 | 247 | 250 | 252 | 386 | 390 | 394 | 406 |
| Shaft Fan | | 85 | 119 | 146 | 159 | 162 | 201 | 203 | 205 | 295 | 298 | 301 | 380 | 384 | 388 | 578 | 584 | 590 | 616 | |
| DuraPlate | | 101 | 129 | 172 | 190 | 193 | 212 | 214 | 216 | 384 | 388 | 392 | 503 | 508 | 513 | 648 | 654 | 661 | 820 | |
| 16,0 | None | 65 | 89 | 107 | 116 | 118 | 131 | 132 | 133 | 194 | 196 | 197 | 214 | 217 | 219 | 359 | 362 | 366 | 381 | |
| | Shaft Fan | 74 | 109 | 132 | 144 | 146 | 186 | 188 | 190 | 291 | 294 | 297 | 329 | 332 | 335 | 540 | 545 | 550 | 573 | |
| | DuraPlate | 81 | 117 | 141 | 154 | 157 | 177 | 179 | 180 | 321 | 324 | 327 | 366 | 370 | 374 | 605 | 611 | 617 | 642 | |
| 18,0 | None | 62 | 84 | 107 | 116 | 118 | 128 | 130 | 131 | 187 | 188 | 190 | 211 | 213 | 215 | 365 | 369 | 372 | 365 | |
| | Shaft Fan | 71 | 103 | 132 | 143 | 146 | 183 | 185 | 187 | 280 | 283 | 286 | 324 | 327 | 330 | 546 | 552 | 557 | 550 | |
| | DuraPlate | 77 | 110 | 141 | 154 | 157 | 174 | 176 | 177 | 309 | 312 | 315 | 361 | 364 | 368 | 612 | 618 | 624 | 617 | |
| 20,0 | None | 63 | 85 | 103 | 111 | 114 | 121 | 122 | 123 | 179 | 181 | 183 | 220 | 222 | 224 | 357 | 361 | 365 | 367 | |
| | Shaft Fan | 72 | 103 | 127 | 138 | 140 | 172 | 174 | 175 | 269 | 271 | 274 | 335 | 338 | 342 | 528 | 533 | 538 | 550 | |
| | DuraPlate | 79 | 110 | 135 | 148 | 151 | 163 | 165 | 166 | 296 | 299 | 302 | 373 | 376 | 380 | 671 | 678 | 684 | 617 | |
| 22,4 | None | 62 | 83 | 97 | 103 | 105 | 133 | 134 | 135 | 174 | 176 | 178 | 225 | 228 | 230 | 331 | 334 | 338 | 352 | |
| | Shaft Fan | 70 | 101 | 119 | 127 | 130 | 186 | 188 | 190 | 257 | 260 | 262 | 334 | 337 | 341 | 491 | 496 | 501 | 523 | |
| | DuraPlate | 77 | 104 | 118 | N/A | N/A | N/A | N/A | N/A | 251 | 253 | 256 | N/A | N/A | N/A | 627 | 633 | 640 | 666 | |
| 25,0 | None | 59 | 78 | 98 | 103 | 105 | 131 | 132 | 133 | 168 | 170 | 171 | 221 | 223 | 225 | 360 | 364 | 368 | 337 | |
| | Shaft Fan | 67 | 96 | 119 | 127 | 129 | 184 | 185 | 187 | 248 | 251 | 253 | 328 | 331 | 335 | 539 | 544 | 550 | 501 | |
| | DuraPlate | 74 | 96 | 118 | N/A | N/A | N/A | N/A | N/A | 242 | 245 | 247 | N/A | N/A | N/A | 691 | 698 | 705 | 639 | |
| 28,0 | None | 60 | 79 | 94 | 99 | 101 | 122 | 123 | 124 | 162 | 163 | 165 | 230 | 233 | 235 | | | | 362 | |
| | Shaft Fan | 68 | 96 | 115 | 122 | 125 | 171 | 173 | 175 | 239 | 241 | 243 | 339 | 343 | 346 | | | | 542 | |
| | DuraPlate | 75 | 96 | 114 | N/A | N/A | N/A | N/A | N/A | 233 | 235 | 237 | N/A | N/A | N/A | | | | 696 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP2 Parallel Shaft

Basic Thermal Ratings ★ – kW/Double Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|---------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 900 | 5,00 | None | * | * | * | | | * | * | * | | | |
| | | Shaft Fan | 740 | 748 | 755 | | | 642 | 648 | 655 | | | |
| | | Electric Fan | 1233 | 1246 | 1258 | | | 1464 | 1478 | 1493 | | | |
| | | DuraPlate | 1776 | 1793 | 1811 | | | 2035 | 2056 | 2076 | | | |
| | 5,60 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 772 | 779 | 787 | 800 | 816 | 779 | 787 | 795 | * | * | * |
| | | Electric Fan | 1248 | 1260 | 1273 | 1408 | 1436 | 1566 | 1581 | 1597 | 1094 | 1105 | 1116 |
| | | DuraPlate | 1783 | 1801 | 1819 | 1662 | 1695 | 2108 | 2129 | 2150 | 1662 | 1678 | 1695 |
| | 6,30 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 751 | 758 | 766 | 875 | 893 | 814 | 823 | 831 | 540 | 545 | 550 |
| | | Electric Fan | 1210 | 1222 | 1234 | 1468 | 1498 | 1574 | 1590 | 1606 | 1301 | 1314 | 1327 |
| | | DuraPlate | 1729 | 1746 | 1764 | 1714 | 1749 | 2098 | 2119 | 2140 | 1841 | 1859 | 1878 |
| | 7,10 | None | 407 | 411 | 415 | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 802 | 810 | 818 | 863 | 881 | 1210 | 1222 | 1234 | 613 | 619 | 626 |
| | | Electric Fan | 1215 | 1227 | 1239 | 1435 | 1463 | 1927 | 1946 | 1966 | 1354 | 1367 | 1381 |
| | | DuraPlate | 1359 | 1372 | 1386 | 1672 | 1706 | 1835 | 1853 | 1872 | 1875 | 1894 | 1913 |
| | 8,00 | None | 413 | 417 | 422 | 466 | 475 | 507 | 512 | 517 | * | * | * |
| | | Shaft Fan | 798 | 806 | 814 | 948 | 967 | 1186 | 1198 | 1210 | 1091 | 1102 | 1113 |
| | | Electric Fan | 1196 | 1208 | 1220 | 1456 | 1485 | 1867 | 1886 | 1905 | 1806 | 1824 | 1842 |
| | | DuraPlate | 1341 | 1355 | 1368 | 1315 | 1341 | 1779 | 1797 | 1815 | 1713 | 1731 | 1748 |
| | 9,00 | None | 394 | 398 | 402 | 490 | 499 | 498 | 502 | 507 | * | * | * |
| | | Shaft Fan | 765 | 772 | 780 | 966 | 985 | 1151 | 1163 | 1174 | 1096 | 1107 | 1118 |
| | | Electric Fan | 1151 | 1162 | 1174 | 1461 | 1490 | 1811 | 1829 | 1847 | 1774 | 1792 | 1810 |
| | | DuraPlate | 1289 | 1302 | 1315 | 1324 | 1350 | 1725 | 1743 | 1760 | 1686 | 1703 | 1720 |
| | 10,0 | None | 397 | 401 | 405 | 470 | 480 | 619 | 626 | 632 | * | * | * |
| | | Shaft Fan | 737 | 745 | 752 | 928 | 947 | 1232 | 1244 | 1257 | 1075 | 1086 | 1097 |
| | | Electric Fan | 1091 | 1102 | 1113 | 1407 | 1436 | 1832 | 1850 | 1869 | 1731 | 1748 | 1765 |
| | | DuraPlate | 1019 | 1029 | 1040 | 1275 | 1301 | 2206 | 2228 | 2250 | 1646 | 1662 | 1679 |
| 11,2 | None | 397 | 401 | 405 | 470 | 480 | 592 | 598 | 604 | 580 | 585 | 591 | |
| | Shaft Fan | 728 | 735 | 742 | 886 | 903 | 1173 | 1185 | 1197 | 1185 | 1197 | 1209 | |
| | Electric Fan | 1070 | 1081 | 1091 | 1321 | 1347 | 1746 | 1763 | 1781 | 1784 | 1802 | 1820 | |
| | DuraPlate | 1004 | 1014 | 1024 | 994 | 1014 | 2103 | 2124 | 2145 | 2158 | 2179 | 2201 | |
| 12,5 | None | 377 | 381 | 384 | 482 | 492 | 567 | 573 | 578 | 560 | 566 | 571 | |
| | Shaft Fan | 696 | 703 | 710 | 892 | 909 | 1127 | 1138 | 1150 | 1134 | 1145 | 1157 | |
| | Electric Fan | 1028 | 1039 | 1049 | 1316 | 1343 | 1683 | 1699 | 1716 | 1704 | 1721 | 1738 | |
| | DuraPlate | 961 | 971 | 981 | 998 | 1018 | 2031 | 2051 | 2071 | 2061 | 2082 | 2102 | |
| 14,0 | None | 354 | 358 | 361 | 459 | 469 | 617 | 623 | 629 | 539 | 545 | 550 | |
| | Shaft Fan | 639 | 646 | 652 | 854 | 871 | 1143 | 1154 | 1166 | 1093 | 1104 | 1114 | |
| | Electric Fan | 936 | 946 | 955 | 1266 | 1291 | 1655 | 1672 | 1689 | 1645 | 1662 | 1678 | |
| | DuraPlate | 1044 | 1054 | 1065 | 957 | 976 | 1572 | 1588 | 1604 | 1993 | 2013 | 2033 | |
| 16,0 | None | 352 | 355 | 359 | 424 | 433 | 581 | 586 | 592 | 599 | 605 | 611 | |
| | Shaft Fan | 630 | 636 | 642 | 772 | 788 | 1079 | 1090 | 1101 | 1120 | 1131 | 1142 | |
| | Electric Fan | 917 | 926 | 935 | 1137 | 1160 | 1569 | 1584 | 1600 | 1631 | 1647 | 1664 | |
| | DuraPlate | 1024 | 1034 | 1044 | 1026 | 1046 | 1489 | 1504 | 1519 | 1548 | 1563 | 1579 | |
| 18,0 | None | 334 | 337 | 341 | 432 | 440 | 552 | 558 | 563 | 564 | 569 | 575 | |
| | Shaft Fan | 602 | 608 | 614 | 775 | 790 | 1033 | 1044 | 1054 | 1057 | 1068 | 1078 | |
| | Electric Fan | 882 | 891 | 899 | 1131 | 1154 | 1509 | 1524 | 1539 | 1544 | 1560 | 1575 | |
| | DuraPlate | 983 | 993 | 1003 | 1022 | 1043 | 1431 | 1446 | 1460 | 1465 | 1480 | 1494 | |
| 20,0 | None | 337 | 340 | 343 | 410 | 418 | 578 | 584 | 590 | 537 | 542 | 548 | |
| | Shaft Fan | 600 | 606 | 612 | 742 | 757 | 1063 | 1074 | 1085 | 1013 | 1023 | 1034 | |
| | Electric Fan | 880 | 889 | 898 | 1088 | 1110 | 1549 | 1565 | 1580 | 1486 | 1501 | 1516 | |
| | DuraPlate | 820 | 828 | 836 | 982 | 1002 | 1289 | 1302 | 1315 | 1409 | 1423 | 1437 | |
| 22,4 | None | 341 | 345 | 348 | 404 | 412 | 565 | 571 | 576 | 570 | 576 | 581 | |
| | Shaft Fan | 644 | 650 | 657 | 726 | 740 | 1040 | 1050 | 1061 | 1050 | 1061 | 1071 | |
| | Electric Fan | 891 | 900 | 909 | 1070 | 1091 | 1516 | 1531 | 1546 | 1533 | 1549 | 1564 | |
| | DuraPlate | 827 | 835 | 843 | 804 | 820 | 1185 | 1197 | 1209 | 1274 | 1287 | 1300 | |
| 25,0 | None | 322 | 325 | 328 | 421 | 430 | 543 | 549 | 554 | 558 | 564 | 569 | |
| | Shaft Fan | 613 | 619 | 625 | 797 | 813 | 1000 | 1010 | 1020 | 1028 | 1038 | 1049 | |
| | Electric Fan | 853 | 861 | 870 | 1107 | 1129 | 1461 | 1475 | 1490 | 1501 | 1516 | 1531 | |
| | DuraPlate | 787 | 795 | 803 | 830 | 847 | 1140 | 1152 | 1163 | 1172 | 1184 | 1196 | |
| 28,0 | None | | | | 398 | 406 | | | | 530 | 535 | 540 | |
| | Shaft Fan | | | | 760 | 775 | | | | 981 | 991 | 1001 | |
| | Electric Fan | | | | 1060 | 1081 | | | | 1439 | 1453 | 1468 | |
| | DuraPlate | | | | 792 | 807 | | | | 1121 | 1132 | 1143 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP3 Parallel Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|------------|--------------|----------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1800 | 28,0 | None | | | | | | | | | | | | | | | 224 | 224 | 226 | |
| | | Shaft Fan | | | | | | | | | | | | | | | 591 | 597 | 603 | |
| | | Electric Fan | | | | | | | | | | | | | | | 591 | 597 | 603 | |
| | 31,5 | DuraPlate | | | | | | | | | | | | | | | 624 | 630 | 636 | |
| | | None | 56 | 76 | 87 | 92 | 94 | 107 | 108 | 109 | 135 | 136 | 137 | 151 | 152 | 154 | 209 | 211 | 214 | 220 |
| | | Shaft Fan | 82 | 112 | 130 | 171 | 174 | 237 | 239 | 241 | 326 | 329 | 332 | 290 | 293 | 296 | 560 | 566 | 572 | 589 |
| | 35,5 | Electric Fan | 100 | 153 | 174 | 228 | 233 | 238 | 241 | 243 | 335 | 338 | 341 | 363 | 367 | 371 | 560 | 566 | 571 | 589 |
| | | DuraPlate | N/A | N/A | 205 | 218 | 223 | 258 | 261 | 263 | 329 | 332 | 335 | 400 | 404 | 408 | 591 | 597 | 603 | 622 |
| | | None | 54 | 73 | 88 | 92 | 94 | 106 | 107 | 108 | 131 | 133 | 134 | 149 | 150 | 151 | 213 | 215 | 217 | 213 |
| | 40,0 | Shaft Fan | 80 | 107 | 130 | 170 | 174 | 233 | 236 | 238 | 317 | 320 | 323 | 286 | 289 | 292 | 565 | 571 | 577 | 571 |
| | | Electric Fan | 96 | 145 | 174 | 227 | 231 | 235 | 237 | 240 | 326 | 329 | 332 | 358 | 362 | 365 | 565 | 571 | 576 | 571 |
| | | DuraPlate | N/A | N/A | 205 | 217 | 222 | 254 | 257 | 259 | 320 | 323 | 326 | 395 | 399 | 403 | 596 | 602 | 608 | 603 |
| | 45,0 | None | 55 | 74 | 85 | 90 | 91 | 100 | 101 | 102 | 128 | 129 | 130 | 154 | 156 | 157 | 207 | 209 | 211 | 214 |
| | | Shaft Fan | 81 | 108 | 126 | 165 | 169 | 221 | 224 | 226 | 308 | 311 | 314 | 295 | 298 | 301 | 539 | 545 | 550 | 571 |
| | | Electric Fan | 97 | 145 | 168 | 220 | 225 | 223 | 225 | 227 | 316 | 319 | 323 | 368 | 372 | 375 | 539 | 544 | 550 | 571 |
| | 50,0 | DuraPlate | N/A | N/A | 198 | 211 | 215 | 241 | 244 | 246 | 311 | 314 | 317 | 405 | 409 | 413 | 451 | 456 | 460 | 602 |
| | | None | 50 | 68 | 78 | 82 | 84 | 93 | 94 | 95 | 126 | 127 | 128 | 140 | 142 | 143 | 194 | 196 | 198 | 205 |
| | | Shaft Fan | 74 | 99 | 116 | 152 | 155 | 207 | 209 | 211 | 303 | 306 | 309 | 267 | 270 | 273 | 510 | 515 | 520 | 537 |
| | 56,0 | Electric Fan | 90 | 135 | 156 | 203 | 207 | 209 | 211 | 213 | 311 | 315 | 318 | 334 | 337 | 341 | 510 | 515 | 520 | 537 |
| | | DuraPlate | N/A | N/A | 151 | 158 | 161 | 183 | 185 | 187 | 248 | 251 | 253 | 294 | 297 | 300 | 426 | 431 | 435 | 449 |
| None | | 48 | 64 | 78 | 82 | 84 | 92 | 93 | 94 | 122 | 124 | 125 | 138 | 139 | 141 | 198 | 200 | 202 | 198 | |
| 63,0 | Shaft Fan | 71 | 95 | 116 | 151 | 154 | 204 | 206 | 208 | 294 | 297 | 300 | 263 | 266 | 268 | 514 | 520 | 525 | 520 | |
| | Electric Fan | 86 | 129 | 155 | 202 | 206 | 205 | 207 | 210 | 302 | 305 | 308 | 329 | 332 | 336 | 514 | 519 | 525 | 519 | |
| | DuraPlate | N/A | N/A | 150 | 158 | 161 | 181 | 182 | 184 | 241 | 244 | 246 | 290 | 293 | 296 | 431 | 435 | 440 | 434 | |
| 71,0 | None | 49 | 65 | 76 | 80 | 81 | 87 | 88 | 89 | 118 | 119 | 121 | 143 | 145 | 146 | 204 | 206 | 208 | 199 | |
| | Shaft Fan | 72 | 95 | 113 | 147 | 150 | 193 | 195 | 197 | 283 | 286 | 289 | 271 | 274 | 277 | 499 | 504 | 509 | 519 | |
| | Electric Fan | 87 | 129 | 151 | 196 | 200 | 195 | 197 | 199 | 291 | 294 | 297 | 338 | 342 | 345 | 499 | 504 | 509 | 519 | |
| 80,0 | DuraPlate | N/A | N/A | 146 | 153 | 156 | 171 | 173 | 175 | 232 | 235 | 237 | 298 | 301 | 304 | N/A | N/A | N/A | 435 | |
| | None | 42 | 57 | 68 | 70 | 71 | 82 | 83 | 84 | 115 | 116 | 117 | 133 | 134 | 135 | 192 | 194 | 196 | 202 | |
| | Shaft Fan | 62 | 84 | 101 | 130 | 133 | 180 | 182 | 184 | 270 | 272 | 275 | 244 | 247 | 249 | 472 | 476 | 481 | 497 | |
| 90,0 | Electric Fan | 75 | 115 | 135 | 175 | 178 | 182 | 184 | 185 | 277 | 280 | 283 | 303 | 306 | 309 | 472 | 476 | 481 | 497 | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 225 | 227 | 229 | N/A | N/A | N/A | N/A | |
| | None | 41 | 54 | 68 | 70 | 71 | 81 | 82 | 82 | 112 | 113 | 114 | 130 | 132 | 133 | 195 | 197 | 199 | 195 | |
| 100 | Shaft Fan | 60 | 80 | 101 | 130 | 133 | 178 | 179 | 181 | 262 | 265 | 267 | 240 | 243 | 245 | 476 | 481 | 486 | 481 | |
| | Electric Fan | 73 | 110 | 135 | 174 | 177 | 179 | 181 | 183 | 269 | 272 | 274 | 298 | 301 | 304 | 476 | 481 | 485 | 480 | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 221 | 224 | 226 | N/A | N/A | N/A | N/A | |
| 112 | None | 41 | 55 | 66 | 68 | 69 | 77 | 77 | 78 | 108 | 109 | 110 | 135 | 137 | 138 | 190 | 192 | 194 | 196 | |
| | Shaft Fan | 61 | 81 | 98 | 126 | 129 | 169 | 170 | 172 | 252 | 255 | 257 | 248 | 250 | 253 | 461 | 465 | 470 | 481 | |
| | Electric Fan | 74 | 110 | 131 | 169 | 172 | 170 | 171 | 173 | 259 | 262 | 264 | 307 | 310 | 313 | 461 | 465 | 470 | 480 | |
| 125 | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 229 | 231 | 233 | N/A | N/A | N/A | N/A | |
| | None | 39 | 54 | 66 | 64 | 66 | 78 | 78 | 79 | 107 | 108 | 109 | 131 | 132 | 133 | 178 | 180 | 182 | 188 | |
| | Shaft Fan | 58 | 80 | 97 | 120 | 122 | 170 | 172 | 174 | 249 | 251 | 254 | 239 | 241 | 244 | 434 | 439 | 443 | 458 | |
| 140 | Electric Fan | 71 | 108 | 130 | 160 | 163 | 172 | 173 | 175 | 256 | 258 | 261 | 295 | 298 | 301 | 434 | 438 | 443 | 458 | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | None | 38 | 51 | 64 | 64 | 66 | 76 | 77 | 78 | 104 | 105 | 106 | 128 | 129 | 131 | 182 | 183 | 185 | 182 | |
| 160 | Shaft Fan | 56 | 76 | 95 | 119 | 122 | 168 | 170 | 171 | 242 | 244 | 246 | 235 | 237 | 240 | 439 | 443 | 447 | 442 | |
| | Electric Fan | 68 | 103 | 127 | 159 | 162 | 169 | 171 | 172 | 248 | 251 | 253 | 290 | 293 | 296 | 438 | 443 | 447 | 442 | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 180 | None | 39 | 52 | 62 | 62 | 64 | 72 | 73 | 74 | 100 | 101 | 102 | 133 | 135 | 136 | 188 | 190 | 191 | 183 | |
| | Shaft Fan | 57 | 76 | 92 | 116 | 118 | 159 | 160 | 162 | 233 | 235 | 237 | 243 | 245 | 248 | 440 | 444 | 449 | 442 | |
| | Electric Fan | 69 | 104 | 123 | 154 | 157 | 160 | 161 | 163 | 239 | 241 | 244 | 299 | 302 | 305 | 440 | 444 | 449 | 442 | |
| 200 | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | None | 35 | 47 | 59 | 58 | 59 | 74 | 75 | 76 | 101 | 102 | 103 | 127 | 128 | 129 | 175 | 177 | 179 | 185 | |
| | Shaft Fan | 52 | 69 | 87 | 108 | 110 | 162 | 163 | 165 | 230 | 232 | 235 | 228 | 230 | 233 | 413 | 417 | 422 | 437 | |
| 225 | Electric Fan | 63 | 94 | 116 | 144 | 147 | 163 | 164 | 166 | 236 | 239 | 241 | 281 | 283 | 286 | 413 | 417 | 421 | 437 | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| | None | 34 | 44 | 58 | 58 | 59 | 73 | 74 | 75 | 98 | 99 | 100 | 124 | 126 | 127 | 180 | 182 | 184 | 178 | |
| 250 | Shaft Fan | 50 | 66 | 85 | 107 | 109 | 159 | 161 | 162 | 223 | 225 | 227 | 224 | 226 | 228 | 423 | 427 | 431 | 421 | |
| | Electric Fan | 60 | 90 | 114 | 143 | 146 | 160 | 162 | 163 | 229 | 231 | 233 | 275 | 278 | 281 | 423 | 427 | 431 | 421 | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 280 | None | 34 | 45 | 56 | 56 | 58 | 69 | 70 | 70 | 95 | 95 | 96 | 130 | 131 | 132 | | | | 181 | |
| | Shaft Fan | 50 | 66 | 83 | 104 | 106 | 150 | 151 | 153 | 216 | 218 | 220 | 232 | 234 | 236 | | | | 426 | |
| | Electric Fan | 61 | 90 | 110 | 139 | 142 | 151 | 152 | 154 | 222 | 224 | 226 | 285 | 287 | 290 | | | | 426 | |
| 315 | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | | | N/A | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP3 Parallel Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|---------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1800 | 28,0 | None | 393 | 397 | 401 | | | 507 | 512 | 517 | | | |
| | | Shaft Fan | 832 | 840 | 848 | | | 1081 | 1092 | 1102 | | | |
| | | Electric Fan | 1069 | 1080 | 1090 | | | 1368 | 1382 | 1395 | | | |
| | | DuraPlate | 2025 | 2045 | 2065 | | | 2758 | 2786 | 2813 | | | |
| | 31,5 | None | 392 | 396 | 400 | 383 | 391 | 484 | 489 | 494 | 494 | 499 | 503 |
| | | Shaft Fan | 822 | 830 | 838 | 817 | 833 | 1036 | 1046 | 1057 | 1063 | 1074 | 1084 |
| | | Electric Fan | 1053 | 1063 | 1074 | 1050 | 1071 | 1313 | 1326 | 1340 | 1349 | 1363 | 1376 |
| | | DuraPlate | 1978 | 1998 | 2018 | 2007 | 2047 | 2662 | 2688 | 2715 | 2739 | 2766 | 2794 |
| | 35,5 | None | 375 | 379 | 382 | 390 | 398 | 465 | 470 | 474 | 472 | 476 | 481 |
| | | Shaft Fan | 790 | 798 | 806 | 820 | 836 | 1001 | 1011 | 1021 | 1018 | 1028 | 1039 |
| | | Electric Fan | 1015 | 1025 | 1035 | 1049 | 1070 | 1272 | 1285 | 1298 | 1294 | 1307 | 1320 |
| | | DuraPlate | 1918 | 1937 | 1956 | 1981 | 2021 | 2596 | 2622 | 2648 | 2641 | 2668 | 2694 |
| | 40,0 | None | 351 | 355 | 358 | 373 | 381 | 470 | 474 | 479 | 454 | 458 | 463 |
| | | Shaft Fan | 739 | 746 | 753 | 789 | 805 | 986 | 996 | 1005 | 985 | 995 | 1005 |
| | | Electric Fan | 949 | 958 | 968 | 1012 | 1032 | 1246 | 1258 | 1271 | 1255 | 1267 | 1280 |
| | | DuraPlate | 1800 | 1818 | 1836 | 1921 | 1959 | 2515 | 2540 | 2565 | 2577 | 2603 | 2629 |
| | 45,0 | None | 350 | 353 | 357 | 343 | 350 | 446 | 450 | 455 | 460 | 465 | 469 |
| | | Shaft Fan | 729 | 736 | 743 | 726 | 740 | 941 | 950 | 960 | 972 | 982 | 991 |
| | | Electric Fan | 933 | 943 | 952 | 932 | 951 | 1191 | 1203 | 1215 | 1231 | 1243 | 1255 |
| | | DuraPlate | 1756 | 1773 | 1791 | 1783 | 1819 | 2419 | 2443 | 2468 | 2499 | 2524 | 2549 |
| 50,0 | None | 334 | 337 | 340 | 348 | 355 | 427 | 431 | 435 | 436 | 440 | 445 | |
| | Shaft Fan | 700 | 707 | 714 | 728 | 742 | 907 | 916 | 925 | 926 | 935 | 945 | |
| | Electric Fan | 899 | 908 | 917 | 930 | 949 | 1152 | 1163 | 1175 | 1175 | 1187 | 1199 | |
| | DuraPlate | 1702 | 1719 | 1736 | 1759 | 1794 | 2356 | 2380 | 2403 | 2402 | 2426 | 2450 | |
| 56,0 | None | 320 | 323 | 326 | 333 | 339 | 430 | 434 | 439 | 418 | 422 | 426 | |
| | Shaft Fan | 660 | 667 | 673 | 700 | 714 | 879 | 879 | 888 | 894 | 903 | 912 | |
| | Electric Fan | 845 | 853 | 862 | 897 | 915 | 1091 | 1102 | 1113 | 1137 | 1148 | 1159 | |
| | DuraPlate | 1219 | 1231 | 1243 | 1705 | 1739 | 1662 | 1678 | 1695 | 2339 | 2363 | 2386 | |
| 63,0 | None | 318 | 321 | 325 | 312 | 318 | 408 | 412 | 416 | 422 | 426 | 430 | |
| | Shaft Fan | 651 | 658 | 664 | 648 | 661 | 831 | 839 | 848 | 859 | 868 | 876 | |
| | Electric Fan | 831 | 839 | 848 | 830 | 846 | 1044 | 1055 | 1065 | 1079 | 1090 | 1101 | |
| | DuraPlate | 1194 | 1205 | 1217 | 1205 | 1229 | 1596 | 1612 | 1628 | 1648 | 1665 | 1681 | |
| 71,0 | None | 303 | 306 | 309 | 317 | 323 | 391 | 395 | 398 | 400 | 404 | 408 | |
| | Shaft Fan | 625 | 632 | 638 | 650 | 663 | 801 | 810 | 818 | 819 | 827 | 835 | |
| | Electric Fan | 800 | 808 | 816 | 828 | 845 | 1010 | 1020 | 1030 | 1031 | 1041 | 1051 | |
| | DuraPlate | 1153 | 1165 | 1176 | 1194 | 1218 | 1551 | 1566 | 1582 | 1581 | 1597 | 1613 | |
| 80,0 | None | 287 | 290 | 293 | 303 | 309 | 390 | 394 | 398 | 383 | 387 | 391 | |
| | Shaft Fan | 591 | 597 | 603 | 625 | 637 | 790 | 797 | 805 | 790 | 798 | 806 | |
| | Electric Fan | 756 | 764 | 771 | 798 | 814 | 991 | 1001 | 1010 | 997 | 1007 | 1017 | |
| | DuraPlate | 1090 | 1100 | 1111 | 1154 | 1177 | 1511 | 1526 | 1542 | 1537 | 1552 | 1567 | |
| 90,0 | None | 286 | 289 | 291 | 280 | 286 | 381 | 385 | 389 | 382 | 386 | 389 | |
| | Shaft Fan | 583 | 589 | 594 | 580 | 592 | 773 | 781 | 789 | 778 | 785 | 793 | |
| | Electric Fan | 743 | 750 | 758 | 742 | 757 | 971 | 981 | 991 | 978 | 987 | 997 | |
| | DuraPlate | 1065 | 1076 | 1087 | 1076 | 1098 | 1485 | 1500 | 1515 | 1497 | 1512 | 1527 | |
| 100 | None | 272 | 275 | 277 | 285 | 290 | 364 | 368 | 371 | 373 | 377 | 380 | |
| | Shaft Fan | 559 | 565 | 570 | 582 | 593 | 745 | 752 | 760 | 762 | 769 | 777 | |
| | Electric Fan | 715 | 722 | 729 | 740 | 755 | 938 | 947 | 957 | 958 | 968 | 978 | |
| | DuraPlate | 1029 | 1040 | 1050 | 1066 | 1087 | 1441 | 1455 | 1470 | 1470 | 1485 | 1500 | |
| 112 | None | 258 | 261 | 263 | 271 | 277 | 379 | 382 | 386 | 357 | 360 | 364 | |
| | Shaft Fan | 520 | 526 | 531 | 559 | 570 | 768 | 776 | 783 | 734 | 741 | 748 | |
| | Electric Fan | 662 | 669 | 675 | 713 | 727 | 969 | 978 | 988 | 926 | 935 | 944 | |
| | DuraPlate | 753 | 760 | 768 | 1030 | 1051 | 1174 | 1186 | 1197 | 1427 | 1441 | 1456 | |
| 125 | None | 257 | 259 | 262 | 252 | 257 | 368 | 372 | 375 | 370 | 373 | 377 | |
| | Shaft Fan | 513 | 519 | 524 | 511 | 521 | 748 | 755 | 763 | 754 | 762 | 770 | |
| | Electric Fan | 651 | 658 | 664 | 650 | 663 | 944 | 953 | 962 | 953 | 963 | 972 | |
| | DuraPlate | 739 | 747 | 754 | 741 | 756 | 1144 | 1156 | 1167 | 1157 | 1169 | 1180 | |
| 140 | None | 244 | 247 | 249 | 256 | 261 | 350 | 354 | 357 | 359 | 363 | 366 | |
| | Shaft Fan | 493 | 498 | 503 | 513 | 523 | 717 | 724 | 731 | 734 | 742 | 749 | |
| | Electric Fan | 627 | 633 | 640 | 649 | 662 | 907 | 916 | 925 | 928 | 938 | 947 | |
| | DuraPlate | 713 | 720 | 727 | 739 | 754 | 1102 | 1113 | 1124 | 1128 | 1139 | 1150 | |
| 160 | None | | | | 244 | 249 | | | | 343 | 346 | 349 | |
| | Shaft Fan | | | | 492 | 502 | | | | 705 | 712 | 719 | |
| | Electric Fan | | | | 625 | 638 | | | | 893 | 902 | 911 | |
| | DuraPlate | | | | 713 | 727 | | | | 1087 | 1098 | 1109 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP3 Parallel Shaft

Basic Thermal Ratings [★] – kW/Triple Reduction Maximum 93°C Sump Temperature[†]

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | | |
|---------|--------------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 | |
| 1500 | 28,0 | None | | | | | | | | | | | | | | | 242 | 243 | 246 | | |
| | | Shaft Fan | | | | | | | | | | | | | | | | 523 | 528 | 534 | |
| | | Electric Fan | | | | | | | | | | | | | | | | 597 | 603 | 609 | |
| | | DuraPlate | | | | | | | | | | | | | | | | 558 | 564 | 569 | |
| | 31,5 | None | 53 | 72 | 82 | 87 | 89 | 103 | 104 | 106 | 132 | 133 | 135 | 155 | 156 | 158 | 227 | 229 | 231 | 239 | |
| | | Shaft Fan | 70 | 95 | 110 | 143 | 146 | 199 | 201 | 203 | 275 | 278 | 280 | 257 | 259 | 262 | 495 | 500 | 505 | 521 | |
| | | Electric Fan | 94 | 144 | 164 | 216 | 220 | 228 | 230 | 232 | 321 | 324 | 327 | 359 | 362 | 366 | 565 | 571 | 576 | 595 | |
| | | DuraPlate | N/A | N/A | 173 | 186 | 189 | 221 | 223 | 225 | 283 | 285 | 288 | 350 | 354 | 357 | 528 | 533 | 539 | 556 | |
| | 35,5 | None | 51 | 68 | 82 | 87 | 89 | 102 | 103 | 104 | 129 | 130 | 131 | 153 | 154 | 156 | 231 | 233 | 235 | 231 | |
| | | Shaft Fan | 68 | 91 | 110 | 143 | 146 | 196 | 198 | 200 | 267 | 270 | 273 | 253 | 255 | 258 | 500 | 505 | 510 | 504 | |
| | | Electric Fan | 91 | 137 | 163 | 214 | 219 | 224 | 227 | 229 | 312 | 315 | 318 | 353 | 357 | 360 | 570 | 575 | 581 | 576 | |
| | | DuraPlate | N/A | N/A | 173 | 185 | 189 | 217 | 220 | 222 | 275 | 278 | 280 | 345 | 349 | 352 | 533 | 538 | 543 | 538 | |
| | 40,0 | None | 52 | 69 | 80 | 85 | 87 | 97 | 98 | 99 | 125 | 126 | 128 | 158 | 160 | 161 | 224 | 224 | 224 | 232 | |
| | | Shaft Fan | 69 | 91 | 107 | 139 | 142 | 186 | 188 | 190 | 260 | 262 | 265 | 261 | 263 | 266 | 473 | 478 | 483 | 504 | |
| | | Electric Fan | 92 | 137 | 158 | 208 | 212 | 213 | 215 | 217 | 303 | 306 | 309 | 363 | 367 | 370 | 539 | 545 | 550 | 576 | |
| | | DuraPlate | N/A | N/A | 168 | 180 | 183 | 206 | 208 | 210 | 267 | 270 | 272 | 355 | 358 | 362 | 414 | 418 | 422 | 538 | |
| | 45,0 | None | 47 | 63 | 73 | 78 | 79 | 89 | 90 | 91 | 123 | 124 | 125 | 142 | 143 | 145 | 206 | 208 | 210 | 218 | |
| | | Shaft Fan | 63 | 84 | 98 | 127 | 130 | 174 | 175 | 177 | 255 | 258 | 260 | 234 | 237 | 239 | 447 | 451 | 455 | 471 | |
| | | Electric Fan | 85 | 127 | 147 | 191 | 195 | 199 | 201 | 203 | 298 | 301 | 304 | 327 | 330 | 333 | 509 | 515 | 520 | 537 | |
| | | DuraPlate | N/A | N/A | 129 | 137 | 140 | 159 | 161 | 163 | 218 | 220 | 223 | 263 | 265 | 268 | 390 | 394 | 398 | 411 | |
| 50,0 | None | 46 | 60 | 74 | 78 | 79 | 88 | 89 | 90 | 119 | 120 | 122 | 140 | 141 | 142 | 210 | 212 | 214 | 210 | | |
| | Shaft Fan | 61 | 80 | 98 | 127 | 129 | 171 | 173 | 174 | 248 | 250 | 252 | 231 | 233 | 235 | 451 | 456 | 460 | 455 | | |
| | Electric Fan | 82 | 121 | 146 | 190 | 194 | 196 | 197 | 199 | 289 | 292 | 295 | 322 | 325 | 328 | 514 | 519 | 524 | 519 | | |
| | DuraPlate | N/A | N/A | 129 | 137 | 139 | 157 | 159 | 160 | 212 | 214 | 216 | 259 | 261 | 264 | 394 | 398 | 402 | 397 | | |
| 56,0 | None | 46 | 61 | 71 | 75 | 77 | 84 | 84 | 85 | 115 | 116 | 117 | 145 | 146 | 148 | 203 | 205 | 207 | 211 | | |
| | Shaft Fan | 62 | 81 | 95 | 123 | 126 | 162 | 164 | 165 | 238 | 241 | 243 | 238 | 240 | 243 | 425 | 429 | 434 | 455 | | |
| | Electric Fan | 83 | 121 | 142 | 185 | 188 | 185 | 187 | 189 | 278 | 281 | 284 | 331 | 334 | 338 | 483 | 488 | 493 | 519 | | |
| | DuraPlate | N/A | N/A | 125 | 133 | 135 | 149 | 150 | 152 | 204 | 206 | 208 | 267 | 269 | 272 | N/A | N/A | N/A | 398 | | |
| 63,0 | None | 40 | 54 | 64 | 66 | 67 | 77 | 78 | 78 | 110 | 111 | 112 | 129 | 130 | 131 | 190 | 192 | 194 | 201 | | |
| | Shaft Fan | 53 | 71 | 86 | 109 | 111 | 149 | 151 | 152 | 225 | 227 | 229 | 209 | 211 | 213 | 401 | 405 | 409 | 423 | | |
| | Electric Fan | 71 | 108 | 128 | 165 | 168 | 171 | 172 | 174 | 262 | 264 | 267 | 290 | 293 | 295 | 456 | 461 | 465 | 481 | | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 201 | 203 | 205 | N/A | N/A | N/A | N/A | | |
| 71,0 | None | 38 | 51 | 64 | 66 | 67 | 76 | 77 | 77 | 107 | 108 | 109 | 126 | 128 | 129 | 194 | 195 | 197 | 194 | | |
| | Shaft Fan | 51 | 68 | 86 | 109 | 111 | 147 | 148 | 150 | 218 | 220 | 223 | 206 | 208 | 210 | 405 | 409 | 413 | 409 | | |
| | Electric Fan | 69 | 103 | 127 | 164 | 167 | 168 | 170 | 172 | 254 | 257 | 259 | 285 | 288 | 291 | 461 | 465 | 470 | 465 | | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 197 | 199 | 201 | N/A | N/A | N/A | N/A | | |
| 80,0 | None | 39 | 52 | 62 | 64 | 66 | 72 | 73 | 73 | 103 | 104 | 105 | 131 | 133 | 134 | 188 | 190 | 192 | 195 | | |
| | Shaft Fan | 52 | 69 | 83 | 106 | 108 | 139 | 141 | 142 | 210 | 212 | 214 | 213 | 215 | 217 | 392 | 396 | 400 | 409 | | |
| | Electric Fan | 69 | 103 | 124 | 159 | 162 | 159 | 161 | 163 | 245 | 247 | 250 | 294 | 296 | 299 | 445 | 449 | 454 | 465 | | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 204 | 206 | 208 | N/A | N/A | N/A | N/A | | |
| 90,0 | None | 37 | 51 | 62 | 61 | 62 | 73 | 74 | 74 | 101 | 103 | 104 | 127 | 128 | 129 | 176 | 178 | 179 | 186 | | |
| | Shaft Fan | 49 | 68 | 83 | 100 | 102 | 141 | 142 | 144 | 208 | 210 | 212 | 205 | 207 | 209 | 368 | 372 | 376 | 389 | | |
| | Electric Fan | 67 | 102 | 123 | 151 | 154 | 161 | 163 | 165 | 242 | 244 | 247 | 283 | 286 | 289 | 419 | 423 | 427 | 442 | | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| 100 | None | 36 | 48 | 61 | 61 | 62 | 72 | 72 | 73 | 98 | 99 | 100 | 124 | 126 | 127 | 179 | 181 | 183 | 179 | | |
| | Shaft Fan | 47 | 64 | 81 | 100 | 102 | 139 | 140 | 142 | 201 | 203 | 205 | 201 | 203 | 205 | 373 | 377 | 380 | 375 | | |
| | Electric Fan | 64 | 97 | 120 | 150 | 153 | 159 | 160 | 162 | 235 | 237 | 239 | 278 | 281 | 284 | 423 | 428 | 432 | 427 | | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| 112 | None | 36 | 49 | 59 | 59 | 60 | 68 | 68 | 69 | 95 | 96 | 97 | 130 | 131 | 132 | 179 | 181 | 183 | 180 | | |
| | Shaft Fan | 48 | 65 | 78 | 97 | 99 | 131 | 132 | 134 | 194 | 196 | 198 | 209 | 211 | 213 | 368 | 372 | 375 | 376 | | |
| | Electric Fan | 65 | 98 | 116 | 146 | 149 | 150 | 151 | 153 | 226 | 228 | 230 | 287 | 290 | 293 | 417 | 422 | 426 | 427 | | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| 125 | None | 33 | 44 | 55 | 54 | 55 | 70 | 70 | 71 | 94 | 95 | 96 | 119 | 120 | 121 | 167 | 169 | 170 | 177 | | |
| | Shaft Fan | 44 | 58 | 74 | 89 | 91 | 134 | 135 | 136 | 190 | 192 | 194 | 191 | 193 | 195 | 345 | 348 | 352 | 365 | | |
| | Electric Fan | 59 | 88 | 109 | 135 | 138 | 153 | 154 | 156 | 220 | 223 | 225 | 263 | 266 | 269 | 392 | 395 | 399 | 414 | | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| 140 | None | 32 | 42 | 54 | 54 | 56 | 69 | 69 | 70 | 91 | 92 | 93 | 116 | 118 | 119 | 172 | 173 | 175 | 170 | | |
| | Shaft Fan | 42 | 55 | 72 | 89 | 91 | 132 | 133 | 134 | 184 | 186 | 188 | 187 | 189 | 191 | 353 | 357 | 360 | 351 | | |
| | Electric Fan | 57 | 84 | 107 | 135 | 137 | 150 | 152 | 153 | 214 | 216 | 218 | 258 | 261 | 264 | 401 | 405 | 409 | 399 | | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| 160 | None | 32 | 42 | 52 | 53 | 54 | 65 | 65 | 66 | 88 | 89 | 90 | 122 | 123 | 124 | | | | 172 | | |
| | Shaft Fan | 43 | 56 | 70 | 87 | 89 | 124 | 125 | 126 | 178 | 180 | 182 | 195 | 197 | 199 | | | | 355 | | |
| | Electric Fan | 57 | 85 | 104 | 131 | 133 | 142 | 143 | 144 | 207 | 209 | 211 | 267 | 270 | 273 | | | | 403 | | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | | | N/A | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP3 Parallel Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|---------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1500 | 28,0 | None | 382 | 386 | 389 | | | 509 | 514 | 520 | | | |
| | | Shaft Fan | 712 | 719 | 726 | | | 943 | 952 | 962 | | | |
| | | Electric Fan | 1014 | 1024 | 1034 | | | 1315 | 1328 | 1342 | | | |
| | | DuraPlate | 1664 | 1681 | 1697 | | | 2282 | 2304 | 2327 | | | |
| | 31,5 | None | 380 | 384 | 388 | 372 | 380 | 485 | 490 | 495 | 498 | 503 | 508 |
| | | Shaft Fan | 704 | 711 | 718 | 699 | 713 | 902 | 911 | 920 | 928 | 937 | 947 |
| | | Electric Fan | 998 | 1008 | 1018 | 996 | 1016 | 1261 | 1274 | 1287 | 1299 | 1312 | 1325 |
| | | DuraPlate | 1628 | 1645 | 1661 | 1647 | 1680 | 2198 | 2220 | 2242 | 2265 | 2287 | 2310 |
| | 35,5 | None | 363 | 367 | 370 | 378 | 386 | 466 | 470 | 475 | 474 | 479 | 484 |
| | | Shaft Fan | 676 | 683 | 689 | 702 | 716 | 870 | 879 | 888 | 887 | 896 | 904 |
| | | Electric Fan | 962 | 972 | 981 | 995 | 1015 | 1222 | 1234 | 1246 | 1245 | 1257 | 1269 |
| | | DuraPlate | 1576 | 1592 | 1608 | 1630 | 1663 | 2141 | 2162 | 2184 | 2180 | 2202 | 2223 |
| | 40,0 | None | 337 | 341 | 344 | 362 | 369 | 461 | 466 | 470 | 456 | 460 | 465 |
| | | Shaft Fan | 628 | 635 | 641 | 675 | 688 | 850 | 859 | 867 | 856 | 865 | 874 |
| | | Electric Fan | 896 | 905 | 914 | 959 | 979 | 1187 | 1199 | 1211 | 1206 | 1218 | 1230 |
| | | DuraPlate | 1474 | 1489 | 1504 | 1578 | 1610 | 2069 | 2090 | 2110 | 2123 | 2145 | 2166 |
| | 45,0 | None | 336 | 339 | 342 | 329 | 336 | 437 | 442 | 446 | 452 | 457 | 461 |
| | | Shaft Fan | 621 | 627 | 633 | 617 | 629 | 810 | 818 | 826 | 838 | 846 | 855 |
| | | Electric Fan | 882 | 890 | 899 | 880 | 898 | 1135 | 1146 | 1158 | 1173 | 1185 | 1197 |
| | | DuraPlate | 1441 | 1455 | 1470 | 1459 | 1488 | 1988 | 2007 | 2027 | 2054 | 2075 | 2095 |
| 50,0 | None | 320 | 323 | 327 | 334 | 341 | 419 | 423 | 427 | 428 | 432 | 437 | |
| | Shaft Fan | 596 | 602 | 608 | 620 | 632 | 780 | 788 | 796 | 797 | 805 | 813 | |
| | Electric Fan | 849 | 857 | 866 | 879 | 896 | 1097 | 1108 | 1119 | 1120 | 1131 | 1142 | |
| | DuraPlate | 1394 | 1408 | 1422 | 1443 | 1472 | 1933 | 1952 | 1971 | 1971 | 1991 | 2010 | |
| 56,0 | None | 301 | 304 | 307 | 319 | 326 | 409 | 413 | 417 | 410 | 414 | 418 | |
| | Shaft Fan | 557 | 563 | 568 | 595 | 607 | 741 | 748 | 755 | 768 | 776 | 784 | |
| | Electric Fan | 792 | 800 | 808 | 847 | 864 | 1027 | 1037 | 1048 | 1083 | 1094 | 1104 | |
| | DuraPlate | 1004 | 1014 | 1024 | 1397 | 1424 | 1373 | 1387 | 1400 | 1917 | 1936 | 1955 | |
| 63,0 | None | 300 | 303 | 306 | 294 | 300 | 388 | 392 | 396 | 401 | 405 | 409 | |
| | Shaft Fan | 550 | 556 | 561 | 546 | 557 | 706 | 713 | 720 | 730 | 738 | 745 | |
| | Electric Fan | 779 | 787 | 795 | 778 | 794 | 982 | 992 | 1002 | 1015 | 1026 | 1036 | |
| | DuraPlate | 984 | 994 | 1004 | 990 | 1010 | 1317 | 1330 | 1343 | 1360 | 1374 | 1388 | |
| 71,0 | None | 286 | 289 | 291 | 299 | 305 | 371 | 375 | 379 | 380 | 384 | 387 | |
| | Shaft Fan | 527 | 533 | 538 | 549 | 560 | 680 | 687 | 694 | 695 | 702 | 709 | |
| | Electric Fan | 750 | 757 | 765 | 777 | 793 | 950 | 959 | 969 | 970 | 979 | 989 | |
| | DuraPlate | 949 | 959 | 968 | 985 | 1004 | 1277 | 1290 | 1303 | 1303 | 1316 | 1329 | |
| 80,0 | None | 270 | 273 | 276 | 285 | 291 | 370 | 374 | 377 | 364 | 368 | 371 | |
| | Shaft Fan | 499 | 504 | 509 | 527 | 538 | 671 | 678 | 684 | 670 | 676 | 683 | |
| | Electric Fan | 709 | 716 | 723 | 748 | 763 | 932 | 941 | 950 | 938 | 947 | 956 | |
| | DuraPlate | 897 | 906 | 915 | 950 | 969 | 1247 | 1260 | 1272 | 1264 | 1277 | 1289 | |
| 90,0 | None | 269 | 272 | 274 | 264 | 269 | 361 | 365 | 368 | 362 | 366 | 369 | |
| | Shaft Fan | 492 | 497 | 502 | 489 | 499 | 657 | 663 | 670 | 660 | 667 | 673 | |
| | Electric Fan | 696 | 703 | 710 | 695 | 709 | 913 | 922 | 932 | 919 | 928 | 938 | |
| | DuraPlate | 879 | 887 | 896 | 884 | 902 | 1224 | 1237 | 1249 | 1234 | 1246 | 1258 | |
| 100 | None | 256 | 258 | 261 | 268 | 273 | 345 | 349 | 352 | 354 | 357 | 361 | |
| | Shaft Fan | 472 | 476 | 481 | 491 | 501 | 631 | 638 | 644 | 646 | 652 | 659 | |
| | Electric Fan | 670 | 676 | 683 | 694 | 708 | 882 | 890 | 899 | 901 | 910 | 919 | |
| | DuraPlate | 847 | 856 | 864 | 879 | 896 | 1186 | 1198 | 1210 | 1211 | 1223 | 1235 | |
| 112 | None | 240 | 243 | 245 | 255 | 260 | 354 | 358 | 361 | 338 | 341 | 345 | |
| | Shaft Fan | 438 | 442 | 446 | 471 | 480 | 647 | 653 | 660 | 621 | 628 | 634 | |
| | Electric Fan | 618 | 625 | 631 | 668 | 681 | 907 | 916 | 925 | 870 | 879 | 887 | |
| | DuraPlate | 626 | 632 | 639 | 848 | 865 | 973 | 982 | 992 | 1173 | 1185 | 1197 | |
| 125 | None | 239 | 242 | 244 | 234 | 239 | 344 | 348 | 351 | 346 | 349 | 353 | |
| | Shaft Fan | 432 | 437 | 441 | 429 | 438 | 629 | 636 | 642 | 635 | 641 | 647 | |
| | Electric Fan | 609 | 615 | 621 | 607 | 619 | 883 | 892 | 901 | 892 | 901 | 910 | |
| | DuraPlate | 616 | 622 | 628 | 616 | 628 | 948 | 957 | 967 | 958 | 967 | 977 | |
| 140 | None | 228 | 230 | 232 | 238 | 243 | 328 | 331 | 334 | 336 | 339 | 343 | |
| | Shaft Fan | 414 | 419 | 423 | 432 | 440 | 603 | 609 | 615 | 617 | 624 | 630 | |
| | Electric Fan | 585 | 591 | 597 | 606 | 619 | 849 | 857 | 866 | 869 | 878 | 886 | |
| | DuraPlate | 593 | 599 | 605 | 615 | 628 | 911 | 920 | 929 | 933 | 942 | 951 | |
| 160 | None | | | | 227 | 232 | | | | 320 | 323 | 327 | |
| | Shaft Fan | | | | 414 | 422 | | | | 592 | 598 | 603 | |
| | Electric Fan | | | | 584 | 596 | | | | 835 | 844 | 852 | |
| | DuraPlate | | | | 593 | 604 | | | | 897 | 906 | 915 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP3 Parallel Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|---------|--------------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1200 | 28,0 | None | | | | | | | | | | | | | | 243 | 246 | 248 | | |
| | | Shaft Fan | | | | | | | | | | | | | | 439 | 444 | 448 | | |
| | | Electric Fan | | | | | | | | | | | | | | 580 | 585 | 591 | | |
| | | DuraPlate | | | | | | | | | | | | | | 479 | 484 | 489 | | |
| | 31,5 | None | 49 | 67 | 76 | 81 | 82 | 97 | 98 | 99 | 125 | 126 | 128 | 152 | 153 | 155 | 229 | 231 | 233 | 241 |
| | | Shaft Fan | 58 | 79 | 91 | 116 | 118 | 161 | 163 | 164 | 222 | 224 | 226 | 217 | 219 | 221 | 415 | 419 | 423 | 437 |
| | | Electric Fan | 88 | 134 | 152 | 199 | 203 | 213 | 215 | 217 | 300 | 303 | 306 | 343 | 346 | 349 | 548 | 553 | 559 | 577 |
| | | DuraPlate | N/A | N/A | 143 | 152 | 155 | 182 | 184 | 186 | 235 | 237 | 240 | 295 | 298 | 301 | 452 | 457 | 461 | 477 |
| | 35,5 | None | 47 | 63 | 76 | 81 | 82 | 96 | 97 | 98 | 122 | 123 | 124 | 149 | 151 | 152 | 232 | 235 | 237 | 233 |
| | | Shaft Fan | 56 | 75 | 91 | 115 | 118 | 159 | 160 | 162 | 216 | 218 | 220 | 213 | 215 | 217 | 419 | 423 | 427 | 422 |
| | | Electric Fan | 84 | 127 | 152 | 198 | 202 | 210 | 212 | 214 | 292 | 295 | 297 | 337 | 341 | 344 | 552 | 558 | 563 | 558 |
| | | DuraPlate | N/A | N/A | 143 | 152 | 155 | 179 | 181 | 183 | 228 | 231 | 233 | 291 | 294 | 297 | 457 | 461 | 466 | 461 |
| | 40,0 | None | 48 | 64 | 74 | 78 | 80 | 91 | 92 | 93 | 118 | 120 | 121 | 155 | 156 | 158 | 219 | 221 | 224 | 234 |
| | | Shaft Fan | 57 | 76 | 88 | 112 | 114 | 151 | 152 | 154 | 210 | 212 | 214 | 220 | 223 | 225 | 395 | 399 | 403 | 423 |
| | | Electric Fan | 86 | 128 | 147 | 193 | 197 | 199 | 201 | 203 | 283 | 286 | 289 | 347 | 350 | 354 | 520 | 526 | 531 | 558 |
| | | DuraPlate | N/A | N/A | 138 | 147 | 150 | 170 | 172 | 173 | 222 | 224 | 226 | 300 | 303 | 306 | 364 | 367 | 371 | 461 |
| | 45,0 | None | 44 | 59 | 68 | 72 | 73 | 84 | 85 | 85 | 116 | 117 | 118 | 138 | 139 | 140 | 206 | 208 | 210 | 217 |
| | | Shaft Fan | 52 | 70 | 81 | 103 | 105 | 140 | 141 | 142 | 206 | 208 | 210 | 196 | 198 | 200 | 372 | 375 | 379 | 392 |
| | | Electric Fan | 79 | 118 | 136 | 177 | 181 | 185 | 187 | 189 | 278 | 281 | 284 | 311 | 314 | 317 | 491 | 496 | 501 | 518 |
| | | DuraPlate | N/A | N/A | 109 | 115 | 117 | 134 | 136 | 137 | 186 | 188 | 189 | 227 | 229 | 231 | 342 | 346 | 349 | 361 |
| 50,0 | None | 42 | 56 | 68 | 72 | 73 | 83 | 83 | 84 | 113 | 114 | 115 | 135 | 137 | 138 | 209 | 211 | 213 | 209 | |
| | Shaft Fan | 50 | 66 | 81 | 102 | 104 | 137 | 139 | 140 | 200 | 202 | 204 | 193 | 195 | 197 | 376 | 380 | 384 | 379 | |
| | Electric Fan | 76 | 112 | 136 | 176 | 180 | 182 | 184 | 186 | 270 | 273 | 275 | 306 | 309 | 312 | 495 | 500 | 505 | 500 | |
| | DuraPlate | N/A | N/A | 109 | 115 | 117 | 132 | 134 | 135 | 180 | 182 | 184 | 223 | 225 | 227 | 347 | 350 | 353 | 349 | |
| 56,0 | None | 43 | 57 | 66 | 70 | 71 | 78 | 79 | 80 | 109 | 110 | 111 | 140 | 142 | 143 | 194 | 196 | 198 | 211 | |
| | Shaft Fan | 51 | 67 | 79 | 99 | 101 | 130 | 132 | 133 | 192 | 194 | 196 | 200 | 202 | 204 | 347 | 350 | 354 | 379 | |
| | Electric Fan | 77 | 113 | 132 | 171 | 174 | 173 | 174 | 176 | 260 | 262 | 265 | 315 | 318 | 321 | 456 | 461 | 465 | 500 | |
| | DuraPlate | N/A | N/A | 106 | 111 | 114 | 125 | 127 | 128 | 174 | 176 | 177 | 230 | 233 | 235 | N/A | N/A | N/A | 349 | |
| 63,0 | None | 37 | 50 | 59 | 61 | 62 | 72 | 72 | 73 | 101 | 102 | 103 | 121 | 122 | 124 | 182 | 184 | 186 | 192 | |
| | Shaft Fan | 43 | 59 | 70 | 88 | 90 | 119 | 121 | 122 | 179 | 181 | 182 | 172 | 174 | 176 | 326 | 330 | 333 | 344 | |
| | Electric Fan | 66 | 100 | 118 | 153 | 156 | 159 | 160 | 162 | 242 | 244 | 246 | 271 | 274 | 277 | 430 | 435 | 439 | 454 | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 71,0 | None | 35 | 47 | 59 | 61 | 62 | 71 | 71 | 72 | 98 | 99 | 100 | 119 | 120 | 122 | 185 | 187 | 189 | 185 | |
| | Shaft Fan | 42 | 56 | 70 | 88 | 90 | 118 | 119 | 120 | 174 | 175 | 177 | 169 | 171 | 173 | 330 | 334 | 337 | 332 | |
| | Electric Fan | 63 | 95 | 118 | 152 | 155 | 156 | 158 | 159 | 234 | 237 | 239 | 267 | 269 | 272 | 434 | 439 | 443 | 438 | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 80,0 | None | 36 | 48 | 57 | 60 | 61 | 67 | 68 | 68 | 95 | 96 | 97 | 124 | 125 | 126 | 179 | 181 | 183 | 186 | |
| | Shaft Fan | 42 | 56 | 68 | 85 | 87 | 111 | 113 | 114 | 167 | 169 | 171 | 175 | 177 | 179 | 319 | 322 | 326 | 333 | |
| | Electric Fan | 64 | 96 | 114 | 147 | 150 | 148 | 149 | 151 | 226 | 228 | 230 | 275 | 278 | 280 | 420 | 424 | 428 | 438 | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 90,0 | None | 34 | 47 | 57 | 56 | 57 | 68 | 68 | 69 | 94 | 95 | 95 | 120 | 121 | 122 | 168 | 169 | 171 | 177 | |
| | Shaft Fan | 41 | 56 | 68 | 81 | 82 | 113 | 114 | 115 | 165 | 167 | 169 | 169 | 171 | 173 | 299 | 302 | 305 | 316 | |
| | Electric Fan | 62 | 95 | 114 | 140 | 143 | 150 | 151 | 153 | 223 | 226 | 228 | 266 | 268 | 271 | 394 | 398 | 402 | 416 | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 100 | None | 33 | 45 | 56 | 56 | 58 | 67 | 67 | 68 | 91 | 92 | 93 | 117 | 119 | 120 | 171 | 172 | 174 | 171 | |
| | Shaft Fan | 39 | 53 | 67 | 81 | 82 | 111 | 112 | 113 | 160 | 162 | 164 | 166 | 168 | 170 | 304 | 307 | 310 | 305 | |
| | Electric Fan | 59 | 90 | 111 | 139 | 142 | 147 | 149 | 150 | 217 | 219 | 221 | 261 | 263 | 266 | 399 | 403 | 407 | 402 | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 112 | None | 34 | 45 | 54 | 55 | 56 | 63 | 64 | 64 | 88 | 89 | 90 | 122 | 124 | 125 | 165 | 167 | 169 | 172 | |
| | Shaft Fan | 40 | 53 | 64 | 78 | 80 | 105 | 106 | 107 | 155 | 156 | 158 | 173 | 175 | 176 | 294 | 297 | 300 | 306 | |
| | Electric Fan | 60 | 90 | 108 | 135 | 138 | 139 | 140 | 142 | 209 | 211 | 213 | 269 | 272 | 275 | 386 | 390 | 394 | 402 | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 125 | None | 30 | 40 | 51 | 50 | 51 | 64 | 65 | 66 | 86 | 87 | 88 | 110 | 112 | 113 | 154 | 156 | 157 | 163 | |
| | Shaft Fan | 36 | 48 | 60 | 72 | 73 | 107 | 108 | 109 | 151 | 153 | 154 | 156 | 158 | 159 | 275 | 278 | 280 | 291 | |
| | Electric Fan | 54 | 82 | 101 | 125 | 127 | 141 | 143 | 144 | 203 | 205 | 207 | 245 | 247 | 250 | 362 | 366 | 369 | 383 | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 140 | None | 29 | 38 | 50 | 50 | 51 | 63 | 64 | 64 | 84 | 84 | 85 | 108 | 109 | 110 | 158 | 160 | 161 | 157 | |
| | Shaft Fan | 34 | 45 | 59 | 72 | 73 | 105 | 106 | 107 | 146 | 148 | 149 | 153 | 155 | 156 | 282 | 284 | 287 | 280 | |
| | Electric Fan | 52 | 78 | 99 | 124 | 127 | 139 | 140 | 141 | 197 | 199 | 201 | 240 | 242 | 245 | 370 | 374 | 378 | 368 | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 160 | None | 30 | 39 | 48 | 49 | 50 | 59 | 60 | 61 | 81 | 82 | 83 | 113 | 114 | 115 | | | | 159 | |
| | Shaft Fan | 35 | 46 | 57 | 70 | 71 | 99 | 100 | 101 | 142 | 143 | 145 | 159 | 161 | 163 | | | | 283 | |
| | Electric Fan | 53 | 78 | 96 | 121 | 123 | 131 | 132 | 133 | 191 | 192 | 194 | 248 | 251 | 253 | | | | 373 | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | | | N/A | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP3 Parallel Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | |
|---------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|------|------|--|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 | |
| 1200 | 28,0 | None | 359 | 363 | 366 | | | 489 | 494 | 499 | | | | |
| | | Shaft Fan | 586 | 592 | 597 | | | 789 | 796 | 804 | | | | |
| | | Electric Fan | 942 | 951 | 961 | | | 1232 | 1244 | 1257 | | | | |
| | | DuraPlate | 1310 | 1323 | 1336 | | | 1806 | 1824 | 1843 | | | | |
| | 31,5 | None | 357 | 361 | 364 | 350 | 357 | 466 | 470 | 475 | 480 | 485 | 490 | |
| | | Shaft Fan | 580 | 586 | 591 | 574 | 586 | 753 | 760 | 768 | 776 | 784 | 792 | |
| | | Electric Fan | 927 | 936 | 946 | 925 | 944 | 1181 | 1192 | 1204 | 1218 | 1230 | 1242 | |
| | | DuraPlate | 1284 | 1297 | 1310 | 1295 | 1320 | 1737 | 1754 | 1772 | 1791 | 1809 | 1827 | |
| | 35,5 | None | 341 | 344 | 348 | 356 | 363 | 447 | 451 | 456 | 456 | 460 | 465 | |
| | | Shaft Fan | 556 | 561 | 567 | 579 | 590 | 725 | 733 | 740 | 740 | 748 | 755 | |
| | | Electric Fan | 893 | 902 | 911 | 924 | 943 | 1143 | 1154 | 1166 | 1166 | 1177 | 1189 | |
| | | DuraPlate | 1241 | 1253 | 1265 | 1285 | 1311 | 1688 | 1705 | 1722 | 1721 | 1738 | 1755 | |
| | 40,0 | None | 315 | 318 | 321 | 340 | 347 | 436 | 441 | 445 | 438 | 442 | 446 | |
| | | Shaft Fan | 514 | 520 | 525 | 555 | 566 | 705 | 712 | 719 | 714 | 721 | 728 | |
| | | Electric Fan | 830 | 838 | 846 | 890 | 908 | 1106 | 1117 | 1128 | 1129 | 1140 | 1151 | |
| | | DuraPlate | 1157 | 1168 | 1180 | 1242 | 1267 | 1629 | 1645 | 1662 | 1672 | 1689 | 1706 | |
| | 45,0 | None | 313 | 316 | 319 | 307 | 313 | 414 | 418 | 422 | 428 | 433 | 437 | |
| | | Shaft Fan | 509 | 514 | 519 | 504 | 514 | 670 | 677 | 684 | 694 | 701 | 708 | |
| | | Electric Fan | 816 | 824 | 832 | 815 | 831 | 1056 | 1067 | 1077 | 1093 | 1104 | 1115 | |
| | | DuraPlate | 1133 | 1144 | 1156 | 1143 | 1166 | 1562 | 1578 | 1593 | 1615 | 1631 | 1648 | |
| 50,0 | None | 299 | 302 | 305 | 312 | 318 | 396 | 400 | 404 | 405 | 409 | 413 | | |
| | Shaft Fan | 488 | 492 | 497 | 508 | 518 | 645 | 651 | 658 | 659 | 666 | 672 | | |
| | Electric Fan | 785 | 793 | 801 | 814 | 830 | 1020 | 1031 | 1041 | 1042 | 1053 | 1063 | | |
| | DuraPlate | 1094 | 1105 | 1116 | 1134 | 1156 | 1516 | 1531 | 1546 | 1547 | 1562 | 1578 | | |
| 56,0 | None | 278 | 281 | 283 | 298 | 304 | 379 | 383 | 387 | 388 | 392 | 396 | | |
| | Shaft Fan | 453 | 457 | 462 | 487 | 497 | 608 | 614 | 620 | 634 | 640 | 647 | | |
| | Electric Fan | 730 | 737 | 744 | 783 | 799 | 948 | 958 | 967 | 1007 | 1018 | 1028 | | |
| | DuraPlate | 795 | 802 | 810 | 1095 | 1117 | 1091 | 1102 | 1113 | 1501 | 1516 | 1531 | | |
| 63,0 | None | 276 | 279 | 282 | 271 | 276 | 360 | 363 | 367 | 372 | 376 | 380 | | |
| | Shaft Fan | 448 | 453 | 457 | 444 | 453 | 578 | 584 | 590 | 598 | 604 | 610 | | |
| | Electric Fan | 718 | 725 | 732 | 716 | 730 | 907 | 916 | 925 | 937 | 947 | 956 | | |
| | DuraPlate | 781 | 789 | 797 | 782 | 798 | 1044 | 1055 | 1065 | 1079 | 1090 | 1101 | | |
| 71,0 | None | 263 | 266 | 269 | 275 | 281 | 344 | 348 | 351 | 352 | 356 | 359 | | |
| | Shaft Fan | 429 | 433 | 437 | 447 | 456 | 556 | 562 | 567 | 569 | 574 | 580 | | |
| | Electric Fan | 690 | 697 | 704 | 716 | 730 | 876 | 885 | 894 | 895 | 904 | 913 | | |
| | DuraPlate | 752 | 759 | 767 | 781 | 796 | 1011 | 1021 | 1031 | 1032 | 1042 | 1052 | | |
| 80,0 | None | 249 | 251 | 254 | 263 | 268 | 343 | 346 | 349 | 337 | 341 | 344 | | |
| | Shaft Fan | 405 | 409 | 413 | 428 | 437 | 550 | 555 | 561 | 547 | 552 | 558 | | |
| | Electric Fan | 652 | 659 | 665 | 689 | 702 | 860 | 868 | 877 | 865 | 873 | 882 | | |
| | DuraPlate | 710 | 717 | 724 | 752 | 767 | 990 | 1000 | 1010 | 999 | 1009 | 1019 | | |
| 90,0 | None | 248 | 250 | 253 | 243 | 247 | 334 | 338 | 341 | 335 | 339 | 342 | | |
| | Shaft Fan | 401 | 405 | 409 | 397 | 405 | 538 | 543 | 548 | 540 | 545 | 551 | | |
| | Electric Fan | 641 | 647 | 654 | 640 | 653 | 843 | 851 | 859 | 848 | 857 | 865 | | |
| | DuraPlate | 697 | 704 | 711 | 699 | 713 | 971 | 980 | 990 | 977 | 987 | 997 | | |
| 100 | None | 236 | 238 | 240 | 247 | 252 | 319 | 323 | 326 | 327 | 331 | 334 | | |
| | Shaft Fan | 383 | 387 | 391 | 400 | 408 | 516 | 521 | 526 | 528 | 533 | 539 | | |
| | Electric Fan | 616 | 622 | 629 | 639 | 652 | 813 | 821 | 829 | 831 | 839 | 848 | | |
| | DuraPlate | 671 | 678 | 684 | 697 | 711 | 938 | 948 | 957 | 958 | 968 | 978 | | |
| 112 | None | 220 | 222 | 224 | 235 | 240 | 325 | 328 | 331 | 313 | 316 | 319 | | |
| | Shaft Fan | 355 | 359 | 362 | 383 | 390 | 526 | 531 | 536 | 507 | 512 | 517 | | |
| | Electric Fan | 568 | 574 | 579 | 615 | 627 | 835 | 843 | 851 | 802 | 810 | 818 | | |
| | DuraPlate | 503 | 508 | 513 | 671 | 684 | 778 | 786 | 793 | 926 | 936 | 945 | | |
| 125 | None | 219 | 221 | 223 | 214 | 218 | 315 | 319 | 322 | 317 | 320 | 323 | | |
| | Shaft Fan | 351 | 355 | 358 | 347 | 354 | 511 | 516 | 521 | 515 | 520 | 525 | | |
| | Electric Fan | 559 | 565 | 570 | 557 | 568 | 813 | 821 | 829 | 821 | 829 | 837 | | |
| | DuraPlate | 496 | 501 | 506 | 494 | 504 | 757 | 765 | 772 | 765 | 772 | 780 | | |
| 140 | None | 208 | 210 | 212 | 218 | 222 | 300 | 303 | 306 | 308 | 311 | 314 | | |
| | Shaft Fan | 336 | 339 | 343 | 351 | 358 | 489 | 493 | 498 | 501 | 506 | 511 | | |
| | Electric Fan | 537 | 543 | 548 | 557 | 568 | 780 | 788 | 796 | 799 | 807 | 815 | | |
| | DuraPlate | 476 | 481 | 486 | 495 | 505 | 727 | 734 | 741 | 744 | 752 | 759 | | |
| 160 | None | | | | 207 | 212 | | | | 293 | 296 | 299 | | |
| | Shaft Fan | | | | 336 | 342 | | | | 479 | 484 | 489 | | |
| | Electric Fan | | | | 536 | 547 | | | | 768 | 775 | 783 | | |
| | DuraPlate | | | | 476 | 485 | | | | 714 | 722 | 729 | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP3 Parallel Shaft

Basic Thermal Ratings [★] – kW/Triple Reduction Maximum 93°C Sump Temperature[†]

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|-----------|-----------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1000 | 28,0 | None | | | | | | | | | | | | | | 236 | 239 | 241 | | |
| | | Electric Fan | | | | | | | | | | | | | | 377 | 380 | 384 | | |
| | | DuraPlate | | | | | | | | | | | | | | 555 | 561 | 566 | | |
| | 31,5 | None | 46 | 62 | 71 | 76 | 77 | 91 | 92 | 93 | 117 | 118 | 119 | 145 | 147 | 149 | 222 | 224 | 227 | 234 |
| | | Shaft Fan | 51 | 69 | 80 | 98 | 100 | 135 | 136 | 138 | 185 | 187 | 189 | 187 | 189 | 191 | 355 | 358 | 362 | 374 |
| | | DuraPlate | N/A | N/A | 123 | 131 | 133 | 158 | 159 | 161 | 201 | 203 | 206 | 257 | 259 | 262 | 396 | 400 | 404 | 417 |
| | 35,5 | None | 44 | 59 | 72 | 76 | 77 | 90 | 91 | 92 | 114 | 115 | 116 | 143 | 144 | 146 | 226 | 228 | 230 | 226 |
| | | Shaft Fan | 49 | 66 | 80 | 97 | 99 | 133 | 134 | 136 | 180 | 182 | 183 | 184 | 186 | 188 | 359 | 363 | 366 | 362 |
| | | DuraPlate | N/A | N/A | 123 | 130 | 133 | 155 | 157 | 158 | 196 | 198 | 200 | 253 | 255 | 258 | 400 | 404 | 408 | 403 |
| | 40,0 | None | 45 | 60 | 70 | 74 | 75 | 85 | 86 | 87 | 111 | 112 | 113 | 148 | 150 | 151 | 212 | 214 | 216 | 227 |
| | | Shaft Fan | 50 | 67 | 78 | 95 | 97 | 126 | 127 | 129 | 175 | 177 | 178 | 191 | 193 | 194 | 338 | 341 | 344 | 362 |
| | | DuraPlate | N/A | N/A | 119 | 127 | 129 | 147 | 149 | 150 | 190 | 192 | 194 | 261 | 263 | 266 | 325 | 328 | 331 | 404 |
| | 45,0 | None | 41 | 55 | 64 | 67 | 68 | 78 | 79 | 80 | 108 | 109 | 110 | 131 | 133 | 134 | 199 | 201 | 203 | 210 |
| | | Shaft Fan | 46 | 61 | 71 | 87 | 88 | 117 | 118 | 119 | 171 | 173 | 175 | 169 | 171 | 172 | 317 | 320 | 324 | 335 |
| | | DuraPlate | N/A | N/A | 96 | 101 | 103 | 118 | 119 | 121 | 162 | 164 | 166 | 200 | 202 | 204 | 305 | 308 | 311 | 322 |
| | 50,0 | None | 40 | 52 | 64 | 67 | 68 | 77 | 78 | 79 | 105 | 106 | 107 | 129 | 130 | 132 | 202 | 204 | 206 | 202 |
| | | Shaft Fan | 44 | 58 | 72 | 86 | 88 | 115 | 116 | 117 | 166 | 168 | 170 | 166 | 168 | 170 | 321 | 325 | 328 | 323 |
| | | DuraPlate | N/A | N/A | 96 | 100 | 102 | 116 | 118 | 119 | 158 | 159 | 161 | 197 | 199 | 201 | 309 | 312 | 315 | 311 |
| | 56,0 | None | 40 | 53 | 62 | 65 | 66 | 73 | 74 | 75 | 102 | 103 | 104 | 134 | 135 | 137 | 182 | 184 | 186 | 203 |
| | | Shaft Fan | 45 | 59 | 69 | 84 | 86 | 109 | 110 | 111 | 160 | 162 | 163 | 172 | 174 | 176 | 291 | 293 | 296 | 324 |
| | | DuraPlate | N/A | N/A | 93 | 97 | 99 | 110 | 111 | 112 | 152 | 153 | 155 | 204 | 206 | 208 | N/A | N/A | N/A | 312 |
| | 63,0 | None | 34 | 46 | 55 | 57 | 58 | 67 | 68 | 68 | 95 | 96 | 97 | 113 | 115 | 116 | 171 | 173 | 174 | 180 |
| | | Shaft Fan | 38 | 52 | 62 | 74 | 75 | 100 | 101 | 102 | 149 | 151 | 152 | 146 | 148 | 149 | 273 | 276 | 278 | 288 |
| | | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 71,0 | None | 33 | 44 | 55 | 57 | 58 | 66 | 67 | 67 | 92 | 93 | 94 | 111 | 113 | 114 | 174 | 176 | 177 | 174 |
| | | Shaft Fan | 37 | 49 | 62 | 74 | 75 | 98 | 99 | 100 | 145 | 146 | 148 | 144 | 145 | 146 | 277 | 280 | 282 | 278 |
| | | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 80,0 | None | 34 | 45 | 54 | 56 | 57 | 63 | 63 | 64 | 89 | 90 | 91 | 116 | 117 | 118 | 168 | 170 | 172 | 175 |
| Shaft Fan | | 37 | 50 | 60 | 72 | 73 | 93 | 94 | 95 | 140 | 141 | 143 | 149 | 150 | 152 | 268 | 270 | 273 | 279 | |
| DuraPlate | | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 90,0 | None | 32 | 44 | 53 | 53 | 54 | 63 | 64 | 65 | 88 | 89 | 90 | 112 | 113 | 115 | 157 | 159 | 160 | 166 | |
| | Shaft Fan | 36 | 49 | 60 | 68 | 69 | 94 | 95 | 96 | 138 | 140 | 141 | 144 | 146 | 147 | 251 | 253 | 256 | 265 | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 100 | None | 31 | 42 | 52 | 53 | 54 | 62 | 63 | 64 | 85 | 86 | 87 | 110 | 111 | 112 | 160 | 162 | 163 | 160 | |
| | Shaft Fan | 34 | 46 | 59 | 68 | 69 | 93 | 94 | 95 | 134 | 135 | 137 | 141 | 143 | 144 | 255 | 257 | 260 | 255 | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 112 | None | 31 | 42 | 51 | 51 | 52 | 59 | 59 | 60 | 82 | 83 | 84 | 115 | 116 | 117 | 156 | 157 | 159 | 161 | |
| | Shaft Fan | 35 | 47 | 57 | 66 | 67 | 88 | 88 | 89 | 129 | 131 | 132 | 147 | 149 | 150 | 247 | 249 | 252 | 256 | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 125 | None | 28 | 38 | 47 | 47 | 47 | 60 | 60 | 61 | 80 | 81 | 82 | 103 | 104 | 105 | 145 | 146 | 148 | 153 | |
| | Shaft Fan | 31 | 42 | 53 | 60 | 61 | 89 | 90 | 91 | 126 | 127 | 128 | 133 | 134 | 135 | 230 | 233 | 235 | 244 | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 140 | None | 27 | 36 | 46 | 47 | 48 | 59 | 59 | 60 | 78 | 79 | 79 | 101 | 102 | 103 | 149 | 150 | 152 | 147 | |
| | Shaft Fan | 30 | 40 | 52 | 60 | 61 | 87 | 88 | 89 | 122 | 123 | 124 | 130 | 131 | 133 | 236 | 238 | 241 | 234 | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| 160 | None | 28 | 36 | 45 | 45 | 46 | 55 | 56 | 56 | 75 | 76 | 77 | 106 | 107 | 108 | | | | 149 | |
| | Shaft Fan | 31 | 40 | 50 | 58 | 60 | 82 | 83 | 84 | 118 | 119 | 120 | 136 | 137 | 138 | | | | 237 | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | | | 350 |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP3 Parallel Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|---------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1000 | 28,0 | None | 337 | 341 | 344 | | | 464 | 469 | 474 | | | |
| | | Shaft Fan | 499 | 504 | 509 | | | 679 | 686 | 692 | | | |
| | | Electric Fan | 882 | 891 | 900 | | | 1159 | 1170 | 1182 | | | |
| | | DuraPlate | 1079 | 1090 | 1101 | | | 1495 | 1510 | 1525 | | | |
| | 31,5 | None | 336 | 339 | 343 | 329 | 336 | 441 | 446 | 450 | 456 | 460 | 465 |
| | | Shaft Fan | 495 | 500 | 505 | 489 | 499 | 647 | 654 | 660 | 668 | 675 | 682 |
| | | Electric Fan | 869 | 877 | 886 | 867 | 884 | 1110 | 1121 | 1132 | 1146 | 1157 | 1168 |
| | | DuraPlate | 1060 | 1070 | 1081 | 1065 | 1086 | 1435 | 1450 | 1464 | 1481 | 1496 | 1511 |
| | 35,5 | None | 320 | 324 | 327 | 335 | 341 | 423 | 428 | 432 | 433 | 437 | 441 |
| | | Shaft Fan | 474 | 478 | 483 | 493 | 503 | 623 | 629 | 635 | 636 | 642 | 649 |
| | | Electric Fan | 836 | 844 | 853 | 866 | 883 | 1074 | 1084 | 1095 | 1096 | 1107 | 1118 |
| | | DuraPlate | 1022 | 1032 | 1043 | 1060 | 1081 | 1393 | 1407 | 1420 | 1420 | 1434 | 1449 |
| | 40,0 | None | 295 | 298 | 301 | 320 | 326 | 411 | 416 | 420 | 415 | 419 | 423 |
| | | Shaft Fan | 437 | 441 | 446 | 473 | 482 | 603 | 609 | 615 | 612 | 618 | 625 |
| | | Electric Fan | 776 | 784 | 791 | 834 | 851 | 1037 | 1047 | 1057 | 1060 | 1071 | 1082 |
| | | DuraPlate | 951 | 960 | 970 | 1023 | 1043 | 1343 | 1356 | 1370 | 1378 | 1392 | 1406 |
| | 45,0 | None | 293 | 296 | 299 | 288 | 293 | 390 | 394 | 398 | 404 | 408 | 412 |
| | | Shaft Fan | 433 | 437 | 442 | 428 | 436 | 573 | 579 | 585 | 594 | 600 | 606 |
| | | Electric Fan | 763 | 771 | 779 | 762 | 777 | 990 | 1000 | 1010 | 1025 | 1035 | 1045 |
| | | DuraPlate | 933 | 942 | 952 | 938 | 956 | 1286 | 1299 | 1312 | 1330 | 1343 | 1357 |
| 50,0 | None | 280 | 282 | 285 | 292 | 298 | 373 | 377 | 381 | 382 | 386 | 390 | |
| | Shaft Fan | 414 | 418 | 422 | 432 | 441 | 551 | 556 | 562 | 563 | 569 | 575 | |
| | Electric Fan | 734 | 742 | 749 | 761 | 776 | 956 | 966 | 975 | 977 | 987 | 997 | |
| | DuraPlate | 899 | 908 | 917 | 933 | 952 | 1245 | 1258 | 1270 | 1272 | 1284 | 1297 | |
| 56,0 | None | 259 | 261 | 264 | 279 | 284 | 354 | 358 | 361 | 366 | 369 | 373 | |
| | Shaft Fan | 383 | 387 | 391 | 414 | 422 | 518 | 523 | 528 | 541 | 547 | 552 | |
| | Electric Fan | 681 | 687 | 694 | 732 | 747 | 886 | 895 | 903 | 944 | 953 | 963 | |
| | DuraPlate | 660 | 666 | 673 | 900 | 918 | 908 | 917 | 926 | 1232 | 1244 | 1257 | |
| 63,0 | None | 258 | 260 | 263 | 252 | 257 | 336 | 339 | 342 | 348 | 351 | 355 | |
| | Shaft Fan | 380 | 384 | 388 | 375 | 383 | 492 | 497 | 502 | 509 | 514 | 519 | |
| | Electric Fan | 670 | 677 | 683 | 668 | 681 | 847 | 855 | 864 | 875 | 884 | 893 | |
| | DuraPlate | 650 | 656 | 663 | 649 | 662 | 868 | 877 | 885 | 897 | 906 | 915 | |
| 71,0 | None | 245 | 248 | 250 | 257 | 262 | 321 | 324 | 328 | 329 | 332 | 335 | |
| | Shaft Fan | 363 | 367 | 370 | 379 | 386 | 472 | 477 | 482 | 483 | 488 | 493 | |
| | Electric Fan | 644 | 650 | 657 | 668 | 681 | 818 | 826 | 834 | 835 | 844 | 852 | |
| | DuraPlate | 624 | 630 | 637 | 649 | 662 | 839 | 847 | 855 | 856 | 865 | 873 | |
| 80,0 | None | 232 | 234 | 236 | 244 | 249 | 320 | 323 | 326 | 315 | 318 | 321 | |
| | Shaft Fan | 343 | 346 | 350 | 362 | 370 | 468 | 472 | 477 | 464 | 469 | 474 | |
| | Electric Fan | 608 | 614 | 620 | 642 | 655 | 803 | 811 | 819 | 807 | 815 | 823 | |
| | DuraPlate | 590 | 596 | 602 | 624 | 637 | 823 | 831 | 840 | 828 | 836 | 844 | |
| 90,0 | None | 230 | 233 | 235 | 226 | 230 | 312 | 315 | 318 | 313 | 316 | 319 | |
| | Shaft Fan | 340 | 343 | 346 | 335 | 342 | 457 | 462 | 466 | 459 | 464 | 468 | |
| | Electric Fan | 598 | 604 | 610 | 596 | 608 | 787 | 795 | 803 | 792 | 800 | 808 | |
| | DuraPlate | 580 | 586 | 592 | 580 | 591 | 807 | 815 | 823 | 812 | 820 | 828 | |
| 100 | None | 219 | 221 | 224 | 230 | 234 | 298 | 301 | 304 | 305 | 308 | 311 | |
| | Shaft Fan | 324 | 328 | 331 | 339 | 345 | 438 | 443 | 447 | 449 | 453 | 458 | |
| | Electric Fan | 575 | 580 | 586 | 596 | 608 | 759 | 766 | 774 | 776 | 783 | 791 | |
| | DuraPlate | 557 | 563 | 568 | 579 | 591 | 778 | 786 | 794 | 795 | 803 | 811 | |
| 112 | None | 204 | 206 | 208 | 219 | 223 | 302 | 305 | 308 | 292 | 295 | 298 | |
| | Shaft Fan | 300 | 303 | 306 | 324 | 330 | 445 | 449 | 454 | 430 | 435 | 439 | |
| | Electric Fan | 529 | 534 | 540 | 573 | 584 | 779 | 786 | 794 | 748 | 756 | 763 | |
| | DuraPlate | 423 | 428 | 432 | 557 | 568 | 653 | 659 | 666 | 768 | 775 | 783 | |
| 125 | None | 203 | 205 | 207 | 199 | 203 | 293 | 296 | 299 | 294 | 297 | 300 | |
| | Shaft Fan | 298 | 301 | 303 | 293 | 299 | 433 | 437 | 441 | 436 | 440 | 444 | |
| | Electric Fan | 521 | 526 | 531 | 519 | 529 | 758 | 766 | 773 | 766 | 773 | 781 | |
| | DuraPlate | 418 | 422 | 426 | 415 | 424 | 635 | 641 | 648 | 641 | 647 | 654 | |
| 140 | None | 193 | 195 | 197 | 202 | 206 | 279 | 281 | 284 | 286 | 289 | 292 | |
| | Shaft Fan | 284 | 287 | 290 | 297 | 303 | 413 | 417 | 421 | 423 | 428 | 432 | |
| | Electric Fan | 501 | 506 | 511 | 519 | 529 | 728 | 735 | 742 | 745 | 753 | 760 | |
| | DuraPlate | 401 | 405 | 409 | 417 | 426 | 608 | 614 | 621 | 623 | 630 | 636 | |
| 160 | None | | | | 192 | 196 | | | | 272 | 275 | 278 | |
| | Shaft Fan | | | | 284 | 289 | | | | 404 | 408 | 412 | |
| | Electric Fan | | | | 499 | 509 | | | | 716 | 723 | 730 | |
| | DuraPlate | | | | 400 | 408 | | | | 598 | 604 | 610 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP3 Parallel Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | | |
|---------|--------------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 | |
| 900 | 28,0 | None | | | | | | | | | | | | | | | 231 | 233 | 235 | | |
| | | Shaft Fan | | | | | | | | | | | | | | | | 344 | 347 | 351 | |
| | | Electric Fan | | | | | | | | | | | | | | | | 539 | 544 | 550 | |
| | 31,5 | DuraPlate | | | | | | | | | | | | | | | | 389 | 393 | 397 | |
| | | None | 44 | 60 | 69 | 73 | 74 | 88 | 89 | 90 | 113 | 114 | 115 | 141 | 142 | 144 | 216 | 219 | 221 | 228 | |
| | | Shaft Fan | 49 | 67 | 77 | 89 | 90 | 122 | 124 | 125 | 167 | 169 | 171 | 172 | 174 | 175 | 324 | 327 | 330 | 342 | |
| | 35,5 | Electric Fan | 79 | 121 | 137 | 180 | 184 | 193 | 195 | 197 | 270 | 273 | 276 | 315 | 318 | 321 | 509 | 514 | 519 | 536 | |
| | | DuraPlate | N/A | N/A | 113 | 120 | 123 | 145 | 147 | 148 | 186 | 188 | 190 | 237 | 239 | 242 | 367 | 370 | 374 | 387 | |
| | | None | 43 | 57 | 69 | 73 | 74 | 87 | 87 | 88 | 110 | 111 | 112 | 139 | 140 | 141 | 220 | 222 | 224 | 220 | |
| | 40,0 | Shaft Fan | 47 | 64 | 77 | 88 | 90 | 121 | 122 | 123 | 163 | 164 | 166 | 169 | 171 | 172 | 328 | 331 | 334 | 330 | |
| | | Electric Fan | 76 | 115 | 137 | 179 | 183 | 190 | 192 | 194 | 263 | 265 | 268 | 310 | 313 | 316 | 513 | 518 | 523 | 518 | |
| | | DuraPlate | N/A | N/A | 113 | 120 | 122 | 143 | 144 | 146 | 181 | 183 | 184 | 233 | 236 | 238 | 371 | 375 | 378 | 373 | |
| | 45,0 | None | 44 | 58 | 67 | 71 | 72 | 82 | 83 | 84 | 107 | 108 | 109 | 144 | 145 | 147 | 206 | 208 | 210 | 221 | |
| | | Shaft Fan | 48 | 64 | 75 | 86 | 88 | 114 | 115 | 117 | 158 | 160 | 161 | 175 | 177 | 179 | 308 | 311 | 314 | 331 | |
| | | Electric Fan | 77 | 116 | 133 | 174 | 178 | 180 | 182 | 183 | 255 | 258 | 260 | 319 | 322 | 325 | 482 | 487 | 492 | 518 | |
| | 50,0 | DuraPlate | N/A | N/A | 110 | 117 | 119 | 135 | 137 | 138 | 176 | 177 | 179 | 241 | 243 | 246 | N/A | N/A | N/A | 374 | |
| | | None | 40 | 53 | 61 | 65 | 66 | 75 | 76 | 77 | 104 | 105 | 107 | 127 | 128 | 130 | 193 | 195 | 197 | 204 | |
| | | Shaft Fan | 44 | 59 | 69 | 79 | 80 | 105 | 107 | 108 | 155 | 156 | 158 | 155 | 157 | 158 | 289 | 292 | 295 | 305 | |
| | 56,0 | Electric Fan | 71 | 107 | 123 | 160 | 163 | 167 | 169 | 170 | 251 | 253 | 256 | 284 | 287 | 290 | 454 | 459 | 463 | 479 | |
| | | DuraPlate | N/A | N/A | 89 | 93 | 95 | 110 | 111 | 112 | 151 | 152 | 154 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | |
| None | | 38 | 50 | 62 | 64 | 66 | 74 | 75 | 76 | 101 | 102 | 103 | 125 | 126 | 127 | 197 | 199 | 201 | 197 | | |
| 63,0 | Shaft Fan | 42 | 56 | 69 | 78 | 80 | 104 | 105 | 106 | 150 | 152 | 153 | 152 | 154 | 155 | 293 | 296 | 299 | 294 | | |
| | Electric Fan | 68 | 102 | 123 | 159 | 162 | 164 | 166 | 168 | 243 | 246 | 248 | 280 | 283 | 285 | 459 | 463 | 468 | 463 | | |
| | DuraPlate | N/A | N/A | 89 | 93 | 95 | 108 | 109 | 110 | 146 | 148 | 149 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| 71,0 | None | 39 | 51 | 60 | 63 | 64 | 70 | 71 | 72 | 98 | 99 | 100 | 130 | 131 | 132 | 177 | 178 | 180 | 198 | | |
| | Shaft Fan | 43 | 57 | 67 | 76 | 78 | 98 | 99 | 100 | 145 | 146 | 148 | 158 | 160 | 161 | 264 | 267 | 269 | 295 | | |
| | Electric Fan | 69 | 102 | 119 | 154 | 157 | 156 | 157 | 159 | 234 | 236 | 239 | 288 | 291 | 294 | 415 | 419 | 423 | 462 | | |
| 80,0 | DuraPlate | N/A | N/A | 86 | 90 | 92 | 102 | 103 | 104 | 141 | 143 | 144 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| | None | 33 | 44 | 53 | 55 | 56 | 64 | 65 | 66 | 91 | 92 | 93 | 110 | 111 | 112 | 165 | 167 | 169 | 175 | | |
| | Shaft Fan | 37 | 50 | 59 | 67 | 68 | 90 | 91 | 92 | 135 | 136 | 137 | 134 | 135 | 136 | 248 | 250 | 253 | 262 | | |
| 90,0 | Electric Fan | 59 | 91 | 106 | 138 | 140 | 143 | 144 | 146 | 218 | 220 | 222 | 245 | 248 | 250 | 391 | 395 | 398 | 412 | | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| | None | 32 | 42 | 53 | 55 | 56 | 63 | 64 | 65 | 88 | 89 | 90 | 108 | 109 | 110 | 168 | 170 | 172 | 168 | | |
| 100 | Shaft Fan | 35 | 47 | 60 | 67 | 68 | 89 | 90 | 91 | 131 | 132 | 133 | 131 | 133 | 134 | 251 | 254 | 256 | 252 | | |
| | Electric Fan | 57 | 86 | 106 | 137 | 140 | 141 | 142 | 144 | 211 | 213 | 215 | 241 | 244 | 246 | 395 | 399 | 403 | 398 | | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| 112 | None | 32 | 43 | 52 | 53 | 55 | 60 | 61 | 61 | 85 | 86 | 87 | 112 | 113 | 114 | 163 | 165 | 166 | 169 | | |
| | Shaft Fan | 36 | 48 | 58 | 65 | 66 | 84 | 85 | 86 | 126 | 128 | 129 | 136 | 138 | 139 | 243 | 246 | 248 | 253 | | |
| | Electric Fan | 58 | 86 | 103 | 133 | 135 | 133 | 135 | 136 | 203 | 205 | 208 | 249 | 251 | 254 | 382 | 385 | 389 | 398 | | |
| 125 | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| | None | 31 | 42 | 51 | 51 | 52 | 61 | 62 | 62 | 84 | 85 | 86 | 108 | 110 | 111 | 152 | 154 | 155 | 161 | | |
| | Shaft Fan | 34 | 47 | 57 | 62 | 63 | 85 | 86 | 87 | 125 | 126 | 127 | 132 | 133 | 135 | 228 | 230 | 232 | 241 | | |
| 140 | Electric Fan | 56 | 85 | 102 | 126 | 129 | 135 | 136 | 138 | 202 | 204 | 206 | 241 | 243 | 246 | 358 | 362 | 365 | 378 | | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| | None | 30 | 40 | 50 | 51 | 52 | 60 | 61 | 61 | 82 | 83 | 84 | 106 | 107 | 108 | 155 | 157 | 158 | 155 | | |
| 160 | Shaft Fan | 33 | 45 | 56 | 62 | 63 | 84 | 85 | 85 | 121 | 122 | 124 | 129 | 131 | 132 | 231 | 233 | 236 | 232 | | |
| | Electric Fan | 53 | 81 | 100 | 126 | 128 | 133 | 134 | 135 | 195 | 197 | 199 | 236 | 239 | 241 | 362 | 366 | 370 | 365 | | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| 187 | None | 30 | 41 | 49 | 49 | 50 | 57 | 57 | 58 | 79 | 80 | 81 | 111 | 112 | 113 | 150 | 151 | 153 | 156 | | |
| | Shaft Fan | 33 | 45 | 55 | 60 | 61 | 79 | 80 | 81 | 117 | 118 | 119 | 135 | 136 | 138 | 223 | 225 | 228 | 233 | | |
| | Electric Fan | 54 | 82 | 97 | 122 | 124 | 125 | 126 | 128 | 188 | 190 | 192 | 245 | 247 | 250 | 350 | 354 | 357 | 365 | | |
| 228 | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| | None | 27 | 36 | 45 | 45 | 46 | 57 | 58 | 59 | 77 | 78 | 78 | 99 | 100 | 101 | 139 | 141 | 142 | 148 | | |
| | Shaft Fan | 30 | 40 | 51 | 54 | 55 | 80 | 81 | 82 | 113 | 114 | 116 | 121 | 122 | 123 | 208 | 210 | 212 | 220 | | |
| 232 | Electric Fan | 49 | 73 | 91 | 112 | 114 | 127 | 128 | 129 | 182 | 184 | 186 | 221 | 223 | 225 | 327 | 331 | 334 | 347 | | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| | None | 26 | 34 | 45 | 45 | 46 | 56 | 57 | 58 | 75 | 75 | 76 | 97 | 98 | 99 | 143 | 145 | 146 | 142 | | |
| 237 | Shaft Fan | 29 | 38 | 50 | 55 | 56 | 79 | 79 | 80 | 110 | 111 | 112 | 118 | 120 | 121 | 213 | 216 | 218 | 212 | | |
| | Electric Fan | 47 | 70 | 89 | 112 | 114 | 124 | 126 | 127 | 176 | 178 | 180 | 216 | 219 | 221 | 335 | 339 | 342 | 333 | | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| 337 | None | 27 | 35 | 43 | 43 | 44 | 53 | 54 | 54 | 72 | 73 | 74 | 102 | 103 | 104 | | | | 144 | | |
| | Shaft Fan | 29 | 39 | 48 | 53 | 54 | 74 | 75 | 75 | 106 | 107 | 108 | 124 | 125 | 126 | | | | 214 | | |
| | Electric Fan | 48 | 70 | 86 | 108 | 110 | 117 | 118 | 119 | 171 | 172 | 174 | 224 | 227 | 229 | | | | 337 | | |
| 374 | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | | | N/A | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP3 Parallel Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|---------|--------------|-------------------|------------|-----|-----|-----|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 900 | 28,0 | None | 325 | 328 | 331 | | | 448 | 453 | 457 | | | |
| | | Shaft Fan | 455 | 460 | 464 | | | 622 | 628 | 635 | | | |
| | | Electric Fan | 848 | 857 | 865 | | | 1116 | 1127 | 1138 | | | |
| | | DuraPlate | 967 | 976 | 986 | | | 1341 | 1355 | 1368 | | | |
| | 31,5 | None | 323 | 326 | 329 | 317 | 323 | 426 | 430 | 435 | 440 | 445 | 449 |
| | | Shaft Fan | 451 | 456 | 461 | 446 | 455 | 593 | 599 | 605 | 612 | 618 | 625 |
| | | Electric Fan | 835 | 844 | 852 | 833 | 850 | 1069 | 1079 | 1090 | 1103 | 1114 | 1125 |
| | | DuraPlate | 950 | 960 | 969 | 953 | 972 | 1287 | 1300 | 1312 | 1328 | 1341 | 1355 |
| | 35,5 | None | 308 | 311 | 314 | 322 | 328 | 408 | 412 | 417 | 417 | 422 | 426 |
| | | Shaft Fan | 432 | 436 | 441 | 450 | 459 | 570 | 576 | 581 | 582 | 588 | 594 |
| | | Electric Fan | 804 | 812 | 820 | 833 | 849 | 1034 | 1044 | 1054 | 1055 | 1065 | 1076 |
| | | DuraPlate | 915 | 925 | 934 | 950 | 969 | 1247 | 1260 | 1272 | 1272 | 1285 | 1298 |
| | 40,0 | None | 283 | 286 | 289 | 307 | 313 | 396 | 400 | 404 | 401 | 405 | 409 |
| | | Shaft Fan | 398 | 402 | 406 | 431 | 440 | 552 | 557 | 563 | 560 | 566 | 571 |
| | | Electric Fan | 746 | 753 | 760 | 802 | 818 | 997 | 1007 | 1017 | 1021 | 1031 | 1041 |
| | | DuraPlate | 850 | 859 | 867 | 916 | 934 | 1202 | 1215 | 1227 | 1234 | 1246 | 1258 |
| | 45,0 | None | 282 | 285 | 287 | 276 | 282 | 375 | 379 | 383 | 389 | 393 | 397 |
| | | Shaft Fan | 395 | 399 | 403 | 389 | 397 | 524 | 529 | 535 | 543 | 548 | 554 |
| | | Electric Fan | 734 | 741 | 748 | 732 | 746 | 952 | 962 | 972 | 986 | 996 | 1005 |
| | | DuraPlate | 835 | 844 | 852 | 838 | 855 | 1150 | 1162 | 1173 | 1190 | 1202 | 1214 |
| 50,0 | None | 268 | 271 | 274 | 281 | 286 | 359 | 363 | 366 | 368 | 371 | 375 | |
| | Shaft Fan | 377 | 381 | 385 | 394 | 401 | 503 | 508 | 513 | 514 | 520 | 525 | |
| | Electric Fan | 706 | 713 | 720 | 731 | 746 | 920 | 929 | 938 | 940 | 949 | 958 | |
| | DuraPlate | 805 | 813 | 821 | 835 | 852 | 1113 | 1124 | 1135 | 1137 | 1148 | 1159 | |
| 56,0 | None | 248 | 250 | 253 | 268 | 273 | 340 | 343 | 347 | 352 | 355 | 359 | |
| | Shaft Fan | 349 | 352 | 355 | 377 | 384 | 472 | 477 | 482 | 494 | 499 | 504 | |
| | Electric Fan | 653 | 660 | 667 | 704 | 718 | 851 | 859 | 868 | 908 | 917 | 926 | |
| | DuraPlate | 594 | 600 | 606 | 805 | 821 | 818 | 826 | 835 | 1100 | 1111 | 1122 | |
| 63,0 | None | 247 | 249 | 252 | 242 | 247 | 322 | 325 | 329 | 334 | 337 | 340 | |
| | Shaft Fan | 346 | 349 | 353 | 341 | 348 | 449 | 453 | 458 | 464 | 469 | 474 | |
| | Electric Fan | 643 | 650 | 656 | 641 | 654 | 813 | 821 | 829 | 841 | 849 | 857 | |
| | DuraPlate | 585 | 591 | 597 | 584 | 595 | 782 | 789 | 797 | 808 | 816 | 824 | |
| 71,0 | None | 235 | 237 | 240 | 246 | 251 | 308 | 311 | 314 | 315 | 319 | 322 | |
| | Shaft Fan | 330 | 333 | 337 | 345 | 352 | 430 | 435 | 439 | 440 | 445 | 449 | |
| | Electric Fan | 618 | 624 | 630 | 641 | 654 | 785 | 793 | 801 | 802 | 810 | 818 | |
| | DuraPlate | 562 | 567 | 573 | 585 | 596 | 754 | 762 | 770 | 771 | 778 | 786 | |
| 80,0 | None | 222 | 224 | 226 | 234 | 239 | 307 | 310 | 313 | 302 | 305 | 308 | |
| | Shaft Fan | 312 | 315 | 318 | 329 | 336 | 427 | 431 | 435 | 423 | 427 | 431 | |
| | Electric Fan | 584 | 590 | 596 | 616 | 629 | 771 | 779 | 787 | 775 | 782 | 790 | |
| | DuraPlate | 531 | 536 | 541 | 562 | 573 | 742 | 749 | 756 | 744 | 752 | 759 | |
| 90,0 | None | 221 | 223 | 225 | 216 | 221 | 299 | 302 | 305 | 300 | 303 | 306 | |
| | Shaft Fan | 309 | 312 | 315 | 305 | 311 | 417 | 421 | 425 | 419 | 423 | 427 | |
| | Electric Fan | 574 | 580 | 586 | 572 | 584 | 756 | 763 | 771 | 760 | 768 | 776 | |
| | DuraPlate | 523 | 528 | 533 | 521 | 532 | 726 | 734 | 741 | 731 | 738 | 745 | |
| 100 | None | 210 | 212 | 214 | 220 | 224 | 286 | 289 | 291 | 293 | 296 | 299 | |
| | Shaft Fan | 295 | 298 | 301 | 308 | 314 | 399 | 403 | 407 | 409 | 413 | 417 | |
| | Electric Fan | 552 | 557 | 563 | 572 | 584 | 729 | 736 | 743 | 745 | 752 | 760 | |
| | DuraPlate | 501 | 507 | 512 | 522 | 532 | 700 | 707 | 714 | 716 | 723 | 730 | |
| 112 | None | 195 | 197 | 199 | 209 | 214 | 289 | 292 | 295 | 280 | 283 | 285 | |
| | Shaft Fan | 273 | 276 | 278 | 294 | 300 | 405 | 409 | 413 | 392 | 396 | 400 | |
| | Electric Fan | 508 | 513 | 518 | 550 | 561 | 748 | 755 | 763 | 718 | 726 | 733 | |
| | DuraPlate | 384 | 388 | 392 | 501 | 511 | 591 | 597 | 603 | 690 | 697 | 704 | |
| 125 | None | 194 | 196 | 198 | 190 | 194 | 281 | 283 | 286 | 282 | 285 | 287 | |
| | Shaft Fan | 271 | 273 | 276 | 266 | 272 | 393 | 397 | 401 | 396 | 400 | 404 | |
| | Electric Fan | 500 | 505 | 510 | 498 | 508 | 728 | 735 | 743 | 735 | 742 | 750 | |
| | DuraPlate | 380 | 384 | 387 | 377 | 384 | 575 | 581 | 587 | 580 | 586 | 592 | |
| 140 | None | 185 | 186 | 188 | 193 | 197 | 267 | 269 | 272 | 274 | 276 | 279 | |
| | Shaft Fan | 258 | 261 | 263 | 270 | 275 | 375 | 379 | 383 | 385 | 389 | 392 | |
| | Electric Fan | 480 | 485 | 490 | 498 | 508 | 698 | 705 | 712 | 715 | 723 | 730 | |
| | DuraPlate | 364 | 367 | 371 | 379 | 387 | 551 | 556 | 562 | 564 | 570 | 576 | |
| 160 | None | | | | 184 | 188 | | | | 260 | 263 | 266 | |
| | Shaft Fan | | | | 258 | 263 | | | | 367 | 371 | 375 | |
| | Electric Fan | | | | 479 | 488 | | | | 687 | 694 | 701 | |
| | DuraPlate | | | | 363 | 370 | | | | 540 | 546 | 551 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP3 Parallel Shaft

Basic Thermal Ratings [★] – kW/Triple Reduction Maximum 82°C Sump Temperature[†]

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | | |
|-----------|--------------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 | |
| 1800 | 28,0 | None | | | | | | | | | | | | | | | 124 | 125 | 126 | | |
| | | Shaft Fan | | | | | | | | | | | | | | | | 432 | 437 | 441 | |
| | | Electric Fan | | | | | | | | | | | | | | | | 433 | 437 | 441 | |
| | 31,5 | DuraPlate | | | | | | | | | | | | | | | | 451 | 455 | 460 | |
| | | None | 44 | 60 | 68 | 71 | 73 | 80 | 81 | 82 | 96 | 97 | 98 | 97 | 98 | 99 | 117 | 118 | 119 | 122 | |
| | | Shaft Fan | 68 | 93 | 107 | 141 | 144 | 193 | 195 | 197 | 263 | 266 | 269 | 216 | 218 | 220 | 410 | 414 | 418 | 430 | |
| | 35,5 | Electric Fan | 83 | 128 | 145 | 191 | 194 | 195 | 197 | 199 | 271 | 274 | 277 | 278 | 281 | 284 | 410 | 414 | 418 | 430 | |
| | | DuraPlate | N/A | N/A | 170 | 179 | 183 | 208 | 210 | 212 | 261 | 264 | 267 | 303 | 306 | 309 | 427 | 432 | 436 | 449 | |
| | | None | 42 | 57 | 69 | 71 | 73 | 79 | 80 | 80 | 94 | 95 | 96 | 95 | 96 | 97 | 120 | 121 | 122 | 119 | |
| | 40,0 | Shaft Fan | 66 | 89 | 107 | 140 | 143 | 190 | 192 | 194 | 256 | 259 | 261 | 213 | 215 | 217 | 415 | 419 | 423 | 417 | |
| | | Electric Fan | 80 | 122 | 145 | 190 | 193 | 192 | 194 | 196 | 264 | 267 | 270 | 274 | 277 | 280 | 415 | 419 | 423 | 417 | |
| | | DuraPlate | N/A | N/A | 169 | 178 | 182 | 205 | 207 | 209 | 254 | 257 | 259 | 299 | 302 | 305 | 432 | 437 | 441 | 435 | |
| | 45,0 | None | 43 | 58 | 67 | 69 | 71 | 75 | 76 | 77 | 91 | 92 | 93 | 99 | 100 | 101 | 123 | 124 | 125 | 120 | |
| | | Shaft Fan | 67 | 89 | 104 | 137 | 139 | 181 | 183 | 185 | 249 | 252 | 254 | 220 | 222 | 224 | 402 | 406 | 410 | 418 | |
| | | Electric Fan | 81 | 122 | 141 | 184 | 188 | 182 | 184 | 186 | 257 | 259 | 262 | 282 | 285 | 288 | 403 | 407 | 411 | 418 | |
| | 50,0 | DuraPlate | N/A | N/A | 164 | 173 | 177 | 195 | 197 | 199 | 247 | 250 | 252 | 308 | 311 | 314 | 322 | 325 | 329 | 436 | |
| | | None | 39 | 53 | 61 | 64 | 65 | 70 | 71 | 71 | 91 | 92 | 93 | 93 | 94 | 95 | 115 | 116 | 117 | 121 | |
| | | Shaft Fan | 61 | 82 | 96 | 126 | 128 | 170 | 171 | 173 | 246 | 249 | 251 | 202 | 204 | 206 | 380 | 384 | 388 | 400 | |
| | 56,0 | Electric Fan | 75 | 114 | 130 | 170 | 173 | 171 | 173 | 174 | 254 | 256 | 259 | 259 | 262 | 265 | 380 | 384 | 388 | 401 | |
| | | DuraPlate | N/A | N/A | 123 | 129 | 131 | 146 | 148 | 149 | 195 | 197 | 199 | 221 | 223 | 225 | 304 | 307 | 310 | 320 | |
| | | None | 38 | 51 | 62 | 64 | 65 | 69 | 70 | 70 | 89 | 90 | 91 | 92 | 93 | 94 | 118 | 119 | 120 | 117 | |
| | 63,0 | Shaft Fan | 59 | 78 | 96 | 125 | 128 | 167 | 169 | 170 | 239 | 242 | 244 | 199 | 201 | 203 | 385 | 388 | 392 | 387 | |
| | | Electric Fan | 72 | 108 | 130 | 169 | 172 | 169 | 170 | 172 | 247 | 249 | 251 | 256 | 258 | 261 | 385 | 389 | 392 | 388 | |
| | | DuraPlate | N/A | N/A | 123 | 128 | 131 | 144 | 146 | 147 | 190 | 191 | 193 | 217 | 220 | 222 | 308 | 311 | 314 | 310 | |
| | 71,0 | None | 39 | 51 | 60 | 62 | 63 | 66 | 66 | 67 | 86 | 87 | 88 | 96 | 97 | 98 | 143 | 145 | 146 | 118 | |
| | | Shaft Fan | 60 | 79 | 93 | 122 | 124 | 159 | 160 | 162 | 230 | 233 | 235 | 206 | 208 | 210 | 397 | 401 | 405 | 388 | |
| | | Electric Fan | 73 | 108 | 126 | 164 | 167 | 160 | 162 | 163 | 237 | 240 | 242 | 263 | 266 | 269 | 398 | 402 | 405 | 388 | |
| | 80,0 | DuraPlate | N/A | N/A | 119 | 125 | 127 | 137 | 138 | 140 | 183 | 185 | 186 | 224 | 227 | 229 | N/A | N/A | N/A | 311 | |
| None | | 33 | 45 | 53 | 55 | 56 | 63 | 64 | 65 | 88 | 89 | 90 | 98 | 99 | 100 | 134 | 136 | 137 | 142 | | |
| Shaft Fan | | 52 | 70 | 83 | 108 | 110 | 150 | 151 | 153 | 224 | 227 | 229 | 195 | 197 | 199 | 375 | 379 | 383 | 396 | | |
| 90,0 | Electric Fan | 63 | 97 | 113 | 147 | 150 | 151 | 153 | 154 | 231 | 233 | 236 | 246 | 248 | 251 | 376 | 379 | 383 | 396 | | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 175 | 177 | 179 | N/A | N/A | N/A | N/A | | |
| | None | 32 | 43 | 54 | 55 | 56 | 62 | 63 | 64 | 86 | 86 | 87 | 96 | 97 | 98 | 137 | 138 | 140 | 137 | | |
| 100 | Shaft Fan | 50 | 67 | 83 | 108 | 110 | 148 | 149 | 151 | 218 | 220 | 222 | 192 | 194 | 196 | 379 | 383 | 387 | 383 | | |
| | Electric Fan | 61 | 92 | 113 | 146 | 149 | 149 | 150 | 152 | 225 | 227 | 229 | 242 | 244 | 247 | 380 | 383 | 387 | 383 | | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 172 | 174 | 176 | N/A | N/A | N/A | N/A | | |
| 112 | None | 33 | 43 | 52 | 53 | 54 | 59 | 60 | 60 | 83 | 84 | 84 | 100 | 101 | 102 | 136 | 137 | 138 | 138 | | |
| | Shaft Fan | 50 | 67 | 81 | 105 | 107 | 140 | 141 | 143 | 210 | 212 | 214 | 199 | 201 | 202 | 369 | 373 | 377 | 383 | | |
| | Electric Fan | 62 | 92 | 110 | 142 | 145 | 141 | 143 | 144 | 216 | 218 | 221 | 249 | 252 | 254 | 369 | 373 | 377 | 383 | | |
| 125 | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 178 | 180 | 182 | N/A | N/A | N/A | N/A | | |
| | None | 31 | 43 | 52 | 50 | 51 | 60 | 61 | 61 | 82 | 83 | 84 | 96 | 97 | 98 | 127 | 128 | 129 | 134 | | |
| | Shaft Fan | 48 | 66 | 81 | 99 | 101 | 142 | 143 | 145 | 207 | 209 | 212 | 191 | 193 | 195 | 348 | 351 | 355 | 367 | | |
| 140 | Electric Fan | 59 | 91 | 109 | 134 | 137 | 143 | 144 | 146 | 213 | 216 | 218 | 240 | 242 | 245 | 348 | 351 | 355 | 367 | | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| | None | 30 | 41 | 51 | 50 | 51 | 59 | 60 | 60 | 80 | 80 | 81 | 95 | 95 | 96 | 129 | 131 | 132 | 129 | | |
| 160 | Shaft Fan | 46 | 63 | 79 | 99 | 101 | 140 | 141 | 142 | 201 | 203 | 205 | 188 | 190 | 192 | 352 | 355 | 359 | 354 | | |
| | Electric Fan | 57 | 87 | 107 | 134 | 136 | 141 | 142 | 144 | 207 | 209 | 211 | 236 | 238 | 241 | 352 | 355 | 359 | 354 | | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| 180 | None | 30 | 41 | 49 | 49 | 50 | 56 | 57 | 57 | 77 | 78 | 79 | 99 | 100 | 101 | 144 | 145 | 147 | 130 | | |
| | Shaft Fan | 47 | 63 | 76 | 96 | 98 | 132 | 133 | 135 | 194 | 196 | 198 | 195 | 197 | 198 | 364 | 368 | 372 | 355 | | |
| | Electric Fan | 58 | 87 | 103 | 130 | 132 | 133 | 134 | 136 | 200 | 202 | 204 | 244 | 246 | 248 | 364 | 368 | 372 | 355 | | |
| 200 | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| | None | 28 | 37 | 47 | 46 | 47 | 59 | 59 | 60 | 80 | 81 | 81 | 99 | 100 | 101 | 134 | 135 | 137 | 142 | | |
| | Shaft Fan | 43 | 57 | 72 | 90 | 92 | 136 | 137 | 138 | 195 | 197 | 199 | 188 | 190 | 192 | 342 | 345 | 349 | 361 | | |
| 225 | Electric Fan | 53 | 79 | 98 | 122 | 124 | 137 | 138 | 139 | 200 | 202 | 204 | 234 | 236 | 239 | 342 | 346 | 349 | 362 | | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| | None | 27 | 35 | 46 | 46 | 47 | 58 | 58 | 59 | 77 | 78 | 79 | 97 | 98 | 99 | 138 | 139 | 141 | 136 | | |
| 250 | Shaft Fan | 41 | 55 | 71 | 90 | 92 | 133 | 135 | 136 | 189 | 191 | 193 | 185 | 187 | 189 | 350 | 354 | 357 | 348 | | |
| | Electric Fan | 51 | 76 | 96 | 121 | 124 | 134 | 136 | 137 | 194 | 196 | 198 | 230 | 232 | 234 | 350 | 354 | 357 | 348 | | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| 280 | None | 27 | 36 | 45 | 45 | 45 | 54 | 55 | 55 | 75 | 76 | 76 | 101 | 102 | 103 | | | | 138 | | |
| | Shaft Fan | 42 | 55 | 69 | 87 | 89 | 126 | 127 | 128 | 183 | 185 | 187 | 192 | 194 | 196 | | | | 353 | | |
| | Electric Fan | 51 | 76 | 93 | 118 | 120 | 127 | 128 | 129 | 188 | 190 | 192 | 238 | 240 | 242 | | | | 353 | | |
| 315 | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | | | N/A | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP3 Parallel Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|---------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1800 | 28,0 | None | 234 | 237 | 239 | | | 343 | 346 | 350 | | | |
| | | Shaft Fan | 554 | 560 | 565 | | | 858 | 867 | 875 | | | |
| | | Electric Fan | 727 | 734 | 742 | | | 1117 | 1128 | 1140 | | | |
| | | DuraPlate | 1744 | 1761 | 1779 | | | 2355 | 2379 | 2402 | | | |
| | 31,5 | None | 235 | 237 | 240 | 280 | 286 | 329 | 332 | 336 | 329 | 333 | 336 |
| | | Shaft Fan | 549 | 554 | 560 | 670 | 683 | 824 | 832 | 840 | 839 | 848 | 856 |
| | | Electric Fan | 718 | 725 | 732 | 880 | 897 | 1074 | 1084 | 1095 | 1097 | 1108 | 1119 |
| | | DuraPlate | 1706 | 1723 | 1740 | 1726 | 1761 | 2273 | 2296 | 2318 | 2334 | 2358 | 2381 |
| | 35,5 | None | 224 | 227 | 229 | 287 | 293 | 316 | 319 | 323 | 317 | 320 | 324 |
| | | Shaft Fan | 528 | 533 | 538 | 675 | 688 | 796 | 804 | 812 | 806 | 814 | 822 |
| | | Electric Fan | 692 | 698 | 705 | 881 | 899 | 1040 | 1050 | 1061 | 1055 | 1065 | 1076 |
| | | DuraPlate | 1653 | 1670 | 1686 | 1707 | 1741 | 2216 | 2239 | 2261 | 2252 | 2275 | 2297 |
| | 40,0 | None | 214 | 217 | 219 | 275 | 280 | 336 | 340 | 343 | 306 | 309 | 312 |
| | | Shaft Fan | 497 | 502 | 507 | 650 | 662 | 800 | 808 | 816 | 780 | 788 | 796 |
| | | Electric Fan | 650 | 657 | 663 | 850 | 867 | 1034 | 1045 | 1055 | 1022 | 1033 | 1043 |
| | | DuraPlate | 1555 | 1571 | 1586 | 1655 | 1688 | 2161 | 2183 | 2204 | 2197 | 2219 | 2241 |
| | 45,0 | None | 214 | 216 | 218 | 258 | 263 | 319 | 322 | 326 | 328 | 331 | 334 |
| | | Shaft Fan | 491 | 496 | 501 | 602 | 614 | 763 | 771 | 779 | 787 | 795 | 803 |
| | | Electric Fan | 641 | 647 | 653 | 787 | 803 | 988 | 998 | 1008 | 1020 | 1030 | 1040 |
| | | DuraPlate | 1519 | 1534 | 1549 | 1540 | 1571 | 2078 | 2099 | 2120 | 2146 | 2167 | 2189 |
| 50,0 | None | 204 | 206 | 208 | 263 | 268 | 305 | 308 | 311 | 311 | 314 | 317 | |
| | Shaft Fan | 472 | 476 | 481 | 605 | 617 | 735 | 743 | 750 | 750 | 758 | 765 | |
| | Electric Fan | 617 | 623 | 629 | 788 | 803 | 955 | 964 | 974 | 974 | 983 | 993 | |
| | DuraPlate | 1472 | 1486 | 1501 | 1521 | 1551 | 2023 | 2043 | 2063 | 2061 | 2082 | 2102 | |
| 56,0 | None | 203 | 205 | 207 | 251 | 256 | 332 | 335 | 338 | 298 | 301 | 304 | |
| | Shaft Fan | 452 | 457 | 461 | 581 | 593 | 730 | 737 | 744 | 723 | 730 | 738 | |
| | Electric Fan | 587 | 593 | 599 | 759 | 774 | 929 | 938 | 947 | 941 | 950 | 960 | |
| | DuraPlate | 1050 | 1061 | 1071 | 1474 | 1503 | 1429 | 1444 | 1458 | 2006 | 2027 | 2047 | |
| 63,0 | None | 203 | 205 | 207 | 245 | 250 | 314 | 317 | 321 | 325 | 328 | 331 | |
| | Shaft Fan | 447 | 451 | 456 | 548 | 559 | 696 | 703 | 710 | 719 | 727 | 734 | |
| | Electric Fan | 578 | 584 | 590 | 711 | 725 | 888 | 897 | 906 | 917 | 927 | 936 | |
| | DuraPlate | 1029 | 1040 | 1050 | 1037 | 1058 | 1372 | 1386 | 1400 | 1417 | 1431 | 1445 | |
| 71,0 | None | 193 | 195 | 197 | 249 | 254 | 301 | 304 | 307 | 307 | 310 | 313 | |
| | Shaft Fan | 429 | 433 | 437 | 551 | 562 | 671 | 678 | 684 | 685 | 692 | 699 | |
| | Electric Fan | 556 | 562 | 567 | 711 | 725 | 858 | 867 | 875 | 876 | 885 | 893 | |
| | DuraPlate | 994 | 1004 | 1014 | 1030 | 1050 | 1332 | 1345 | 1359 | 1358 | 1372 | 1385 | |
| 80,0 | None | 183 | 185 | 187 | 237 | 242 | 302 | 305 | 308 | 294 | 297 | 300 | |
| | Shaft Fan | 406 | 410 | 414 | 529 | 539 | 663 | 670 | 676 | 661 | 667 | 674 | |
| | Electric Fan | 526 | 531 | 537 | 684 | 698 | 844 | 853 | 861 | 846 | 855 | 863 | |
| | DuraPlate | 940 | 949 | 958 | 995 | 1015 | 1300 | 1313 | 1326 | 1319 | 1332 | 1345 | |
| 90,0 | None | 183 | 185 | 186 | 221 | 225 | 295 | 298 | 301 | 295 | 298 | 301 | |
| | Shaft Fan | 400 | 404 | 408 | 491 | 501 | 650 | 656 | 663 | 652 | 659 | 666 | |
| | Electric Fan | 517 | 523 | 528 | 637 | 650 | 828 | 836 | 844 | 832 | 841 | 849 | |
| | DuraPlate | 920 | 929 | 938 | 927 | 946 | 1277 | 1290 | 1303 | 1287 | 1300 | 1313 | |
| 100 | None | 174 | 175 | 177 | 225 | 229 | 282 | 285 | 287 | 289 | 292 | 294 | |
| | Shaft Fan | 384 | 388 | 392 | 493 | 503 | 625 | 631 | 637 | 639 | 645 | 652 | |
| | Electric Fan | 497 | 502 | 507 | 636 | 649 | 799 | 806 | 814 | 816 | 824 | 832 | |
| | DuraPlate | 888 | 897 | 906 | 920 | 938 | 1239 | 1251 | 1263 | 1264 | 1277 | 1289 | |
| 112 | None | 169 | 171 | 172 | 214 | 218 | 302 | 305 | 308 | 276 | 278 | 281 | |
| | Shaft Fan | 361 | 365 | 368 | 474 | 483 | 652 | 659 | 665 | 615 | 621 | 627 | |
| | Electric Fan | 465 | 469 | 474 | 612 | 625 | 831 | 840 | 848 | 788 | 795 | 803 | |
| | DuraPlate | 648 | 654 | 661 | 889 | 907 | 1003 | 1013 | 1023 | 1226 | 1238 | 1250 | |
| 125 | None | 168 | 170 | 172 | 203 | 207 | 294 | 297 | 300 | 295 | 298 | 301 | |
| | Shaft Fan | 357 | 360 | 364 | 437 | 446 | 635 | 641 | 648 | 640 | 647 | 653 | |
| | Electric Fan | 457 | 462 | 467 | 563 | 574 | 810 | 818 | 826 | 818 | 826 | 834 | |
| | DuraPlate | 637 | 643 | 649 | 638 | 650 | 978 | 988 | 997 | 988 | 998 | 1008 | |
| 140 | None | 160 | 162 | 163 | 207 | 211 | 280 | 282 | 285 | 287 | 289 | 292 | |
| | Shaft Fan | 342 | 346 | 349 | 440 | 448 | 609 | 615 | 621 | 623 | 629 | 636 | |
| | Electric Fan | 440 | 445 | 449 | 563 | 574 | 778 | 786 | 794 | 796 | 804 | 812 | |
| | DuraPlate | 613 | 620 | 626 | 636 | 649 | 941 | 951 | 960 | 963 | 973 | 982 | |
| 160 | None | | | | 197 | 201 | | | | 273 | 276 | 278 | |
| | Shaft Fan | | | | 422 | 430 | | | | 598 | 604 | 610 | |
| | Electric Fan | | | | 542 | 553 | | | | 766 | 773 | 781 | |
| | DuraPlate | | | | 613 | 626 | | | | 928 | 937 | 946 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP3 Parallel Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|---------------------------|---------------------------|---------------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1500 | 28,0 | None | | | | | | | | | | | | | | 161 | 163 | 164 | | |
| | | Shaft Fan | | | | | | | | | | | | | | 404 | 408 | 412 | | |
| | | Electric Fan DuraPlate | | | | | | | | | | | | | | 467 | 472 | 476 | | |
| | 31,5 | None | 42 | 57 | 65 | 68 | 70 | 79 | 80 | 81 | 99 | 100 | 101 | 110 | 111 | 112 | 152 | 153 | 155 | 160 |
| | | Shaft Fan | 58 | 79 | 90 | 119 | 121 | 164 | 166 | 167 | 226 | 228 | 230 | 199 | 201 | 203 | 382 | 386 | 390 | 402 |
| | | Electric Fan DuraPlate | N/A | N/A | 143 | 152 | 155 | 180 | 181 | 183 | 228 | 231 | 233 | 274 | 277 | 280 | 442 | 446 | 451 | 465 |
| | 35,5 | None | 40 | 54 | 65 | 68 | 70 | 78 | 79 | 80 | 97 | 98 | 99 | 108 | 110 | 111 | 155 | 156 | 158 | 154 |
| | | Shaft Fan | 56 | 75 | 91 | 119 | 121 | 162 | 163 | 165 | 220 | 222 | 224 | 196 | 198 | 200 | 386 | 390 | 394 | 389 |
| | | Electric Fan DuraPlate | N/A | N/A | 142 | 152 | 155 | 177 | 179 | 180 | 259 | 261 | 264 | 282 | 285 | 288 | 446 | 451 | 455 | 450 |
| | 40,0 | None | 41 | 55 | 63 | 67 | 68 | 74 | 75 | 76 | 94 | 95 | 96 | 113 | 114 | 115 | 151 | 152 | 154 | 156 |
| | | Shaft Fan | 57 | 76 | 88 | 115 | 118 | 154 | 155 | 157 | 213 | 215 | 218 | 203 | 205 | 207 | 369 | 373 | 377 | 390 |
| | | Electric Fan DuraPlate | N/A | N/A | 138 | 147 | 150 | 168 | 170 | 171 | 216 | 218 | 220 | 278 | 281 | 284 | 426 | 430 | 435 | 451 |
| | 45,0 | None | 38 | 50 | 58 | 61 | 62 | 69 | 70 | 70 | 93 | 94 | 95 | 103 | 104 | 105 | 142 | 143 | 144 | 149 |
| | | Shaft Fan | 52 | 70 | 81 | 106 | 108 | 143 | 145 | 146 | 210 | 212 | 214 | 184 | 186 | 187 | 348 | 352 | 355 | 367 |
| | | Electric Fan DuraPlate | N/A | N/A | 105 | 111 | 114 | 128 | 130 | 131 | 174 | 176 | 178 | 204 | 206 | 208 | 294 | 297 | 300 | 310 |
| | 50,0 | None | 36 | 48 | 58 | 61 | 62 | 68 | 69 | 69 | 90 | 91 | 92 | 101 | 102 | 103 | 144 | 146 | 147 | 144 |
| | | Shaft Fan | 50 | 66 | 81 | 105 | 107 | 141 | 142 | 144 | 204 | 206 | 208 | 181 | 183 | 185 | 353 | 356 | 360 | 355 |
| | | Electric Fan DuraPlate | N/A | N/A | 105 | 111 | 113 | 126 | 128 | 129 | 169 | 171 | 173 | 201 | 203 | 205 | 298 | 301 | 304 | 299 |
| | 56,0 | None | 37 | 48 | 56 | 59 | 61 | 65 | 65 | 66 | 87 | 88 | 89 | 105 | 106 | 107 | 151 | 152 | 154 | 145 |
| | | Shaft Fan | 51 | 67 | 79 | 102 | 104 | 134 | 135 | 136 | 196 | 198 | 200 | 187 | 189 | 191 | 345 | 348 | 352 | 356 |
| Electric Fan DuraPlate | | N/A | N/A | 102 | 108 | 110 | 120 | 121 | 122 | 163 | 165 | 166 | 207 | 209 | 211 | N/A | N/A | N/A | 300 | |
| 63,0 | None | 31 | 43 | 51 | 52 | 53 | 60 | 60 | 61 | 86 | 86 | 87 | 98 | 99 | 100 | 141 | 143 | 144 | 149 | |
| | Shaft Fan | 44 | 59 | 71 | 91 | 92 | 124 | 125 | 126 | 188 | 190 | 192 | 169 | 171 | 173 | 325 | 328 | 332 | 343 | |
| | Electric Fan DuraPlate | N/A | N/A | N/A | N/A | N/A | 142 | 144 | 145 | 220 | 223 | 225 | 239 | 241 | 244 | 373 | 377 | 380 | 393 | |
| 71,0 | None | 30 | 41 | 51 | 52 | 53 | 59 | 60 | 60 | 83 | 84 | 85 | 96 | 97 | 98 | 144 | 145 | 147 | 144 | |
| | Shaft Fan | 42 | 56 | 71 | 90 | 92 | 122 | 123 | 124 | 182 | 184 | 186 | 167 | 168 | 170 | 329 | 332 | 336 | 331 | |
| | Electric Fan DuraPlate | N/A | N/A | N/A | N/A | N/A | 140 | 142 | 143 | 214 | 216 | 218 | 235 | 238 | 240 | 377 | 381 | 384 | 380 | |
| 80,0 | None | 31 | 41 | 49 | 51 | 52 | 56 | 57 | 57 | 80 | 81 | 82 | 100 | 101 | 102 | 141 | 142 | 144 | 145 | |
| | Shaft Fan | 43 | 57 | 69 | 88 | 90 | 116 | 117 | 118 | 176 | 178 | 179 | 172 | 174 | 176 | 319 | 322 | 325 | 332 | |
| | Electric Fan DuraPlate | N/A | N/A | N/A | N/A | N/A | 133 | 134 | 136 | 206 | 208 | 210 | 243 | 245 | 247 | 365 | 369 | 372 | 380 | |
| 90,0 | None | 29 | 40 | 49 | 48 | 49 | 57 | 57 | 58 | 79 | 80 | 81 | 97 | 98 | 99 | 132 | 133 | 134 | 139 | |
| | Shaft Fan | 41 | 56 | 68 | 83 | 85 | 117 | 118 | 119 | 174 | 175 | 177 | 166 | 168 | 170 | 300 | 303 | 306 | 317 | |
| | Electric Fan DuraPlate | N/A | N/A | N/A | N/A | N/A | 135 | 136 | 137 | 203 | 206 | 208 | 234 | 236 | 239 | 344 | 347 | 350 | 363 | |
| 100 | None | 28 | 38 | 48 | 48 | 49 | 56 | 57 | 57 | 77 | 78 | 79 | 95 | 96 | 97 | 134 | 136 | 137 | 134 | |
| | Shaft Fan | 39 | 53 | 67 | 83 | 85 | 115 | 116 | 118 | 168 | 170 | 172 | 163 | 165 | 167 | 304 | 307 | 310 | 306 | |
| | Electric Fan DuraPlate | N/A | N/A | N/A | N/A | N/A | 133 | 134 | 135 | 197 | 199 | 201 | 230 | 232 | 234 | 347 | 351 | 354 | 350 | |
| 112 | None | 29 | 39 | 47 | 47 | 47 | 53 | 53 | 54 | 75 | 75 | 76 | 99 | 100 | 101 | 140 | 141 | 143 | 135 | |
| | Shaft Fan | 40 | 54 | 65 | 81 | 82 | 109 | 110 | 111 | 162 | 164 | 166 | 170 | 171 | 173 | 306 | 309 | 312 | 306 | |
| | Electric Fan DuraPlate | N/A | N/A | N/A | N/A | N/A | 125 | 126 | 128 | 190 | 192 | 194 | 237 | 240 | 242 | 349 | 352 | 356 | 350 | |
| 125 | None | 26 | 35 | 44 | 43 | 44 | 53 | 53 | 54 | 74 | 75 | 76 | 93 | 94 | 95 | 130 | 132 | 133 | 138 | |
| | Shaft Fan | 36 | 48 | 61 | 75 | 76 | 109 | 110 | 111 | 160 | 162 | 163 | 157 | 159 | 161 | 287 | 290 | 293 | 303 | |
| | Electric Fan DuraPlate | N/A | N/A | N/A | N/A | N/A | 125 | 126 | 128 | 187 | 189 | 191 | 220 | 222 | 225 | 327 | 331 | 334 | 346 | |
| 140 | None | 25 | 33 | 43 | 43 | 44 | 54 | 55 | 56 | 72 | 73 | 74 | 91 | 92 | 93 | 134 | 135 | 137 | 133 | |
| | Shaft Fan | 35 | 46 | 60 | 75 | 76 | 110 | 111 | 113 | 155 | 157 | 158 | 154 | 156 | 158 | 294 | 297 | 300 | 292 | |
| | Electric Fan DuraPlate | N/A | N/A | N/A | N/A | N/A | 127 | 128 | 129 | 181 | 183 | 185 | 216 | 218 | 220 | 335 | 339 | 342 | 333 | |
| 160 | None | 26 | 34 | 42 | 42 | 43 | 51 | 52 | 52 | 70 | 70 | 71 | 95 | 96 | 97 | | | | 135 | |
| | Shaft Fan | 35 | 47 | 58 | 73 | 74 | 104 | 105 | 106 | 150 | 152 | 153 | 161 | 162 | 164 | | | | 296 | |
| | Electric Fan DuraPlate | N/A | N/A | N/A | N/A | N/A | 119 | 121 | 122 | 176 | 177 | 179 | 224 | 226 | 228 | | | | 337 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP3 Parallel Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | |
|---------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|------|------|--|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 | |
| 1500 | 28,0 | None | 238 | 240 | 242 | | | 376 | 379 | 383 | | | | |
| | | Shaft Fan | 480 | 485 | 489 | | | 768 | 776 | 783 | | | | |
| | | Electric Fan | 700 | 707 | 714 | | | 1103 | 1114 | 1125 | | | | |
| | | DuraPlate | 1435 | 1449 | 1464 | | | 1958 | 1977 | 1997 | | | | |
| | 31,5 | None | 238 | 240 | 242 | 285 | 291 | 358 | 362 | 366 | 365 | 369 | 372 | |
| | | Shaft Fan | 475 | 480 | 485 | 580 | 592 | 735 | 742 | 750 | 754 | 761 | 769 | |
| | | Electric Fan | 690 | 697 | 704 | 847 | 864 | 1058 | 1069 | 1079 | 1087 | 1098 | 1109 | |
| | | DuraPlate | 1406 | 1420 | 1434 | 1419 | 1447 | 1886 | 1905 | 1924 | 1941 | 1960 | 1979 | |
| | 35,5 | None | 227 | 229 | 231 | 291 | 297 | 344 | 347 | 351 | 348 | 352 | 355 | |
| | | Shaft Fan | 456 | 461 | 465 | 585 | 597 | 709 | 716 | 723 | 721 | 728 | 735 | |
| | | Electric Fan | 664 | 671 | 678 | 848 | 865 | 1024 | 1034 | 1044 | 1042 | 1052 | 1063 | |
| | | DuraPlate | 1360 | 1374 | 1387 | 1407 | 1435 | 1836 | 1854 | 1873 | 1868 | 1887 | 1905 | |
| | 40,0 | None | 213 | 215 | 217 | 278 | 284 | 349 | 353 | 356 | 335 | 338 | 342 | |
| | | Shaft Fan | 426 | 430 | 435 | 562 | 573 | 701 | 708 | 715 | 696 | 703 | 710 | |
| | | Electric Fan | 621 | 627 | 633 | 817 | 834 | 1004 | 1014 | 1024 | 1009 | 1019 | 1029 | |
| | | DuraPlate | 1274 | 1287 | 1300 | 1361 | 1389 | 1782 | 1800 | 1818 | 1819 | 1837 | 1855 | |
| | 45,0 | None | 212 | 214 | 216 | 256 | 261 | 331 | 334 | 338 | 342 | 345 | 348 | |
| | | Shaft Fan | 422 | 426 | 430 | 516 | 526 | 668 | 675 | 682 | 690 | 697 | 704 | |
| | | Electric Fan | 611 | 617 | 624 | 752 | 767 | 959 | 969 | 978 | 991 | 1001 | 1011 | |
| | | DuraPlate | 1247 | 1259 | 1272 | 1260 | 1285 | 1711 | 1728 | 1745 | 1768 | 1786 | 1803 | |
| 50,0 | None | 202 | 204 | 206 | 260 | 266 | 317 | 320 | 323 | 323 | 327 | 330 | | |
| | Shaft Fan | 404 | 408 | 412 | 519 | 530 | 643 | 649 | 656 | 656 | 663 | 670 | | |
| | Electric Fan | 588 | 594 | 600 | 752 | 767 | 926 | 935 | 945 | 945 | 955 | 964 | | |
| | DuraPlate | 1206 | 1218 | 1230 | 1248 | 1273 | 1663 | 1679 | 1696 | 1695 | 1712 | 1729 | | |
| 56,0 | None | 194 | 196 | 198 | 248 | 253 | 322 | 326 | 329 | 310 | 313 | 316 | | |
| | Shaft Fan | 382 | 386 | 390 | 498 | 508 | 624 | 630 | 636 | 632 | 638 | 645 | | |
| | Electric Fan | 553 | 559 | 564 | 724 | 739 | 881 | 890 | 899 | 913 | 923 | 932 | | |
| | DuraPlate | 863 | 871 | 880 | 1207 | 1231 | 1180 | 1192 | 1204 | 1648 | 1664 | 1681 | | |
| 63,0 | None | 194 | 196 | 198 | 234 | 239 | 305 | 309 | 312 | 316 | 319 | 322 | | |
| | Shaft Fan | 378 | 382 | 386 | 462 | 472 | 594 | 600 | 606 | 614 | 621 | 627 | | |
| | Electric Fan | 545 | 550 | 556 | 683 | 683 | 842 | 850 | 859 | 870 | 879 | 888 | | |
| | DuraPlate | 847 | 856 | 864 | 851 | 868 | 1131 | 1142 | 1154 | 1169 | 1180 | 1192 | | |
| 71,0 | None | 184 | 186 | 188 | 238 | 243 | 292 | 295 | 298 | 299 | 302 | 305 | | |
| | Shaft Fan | 362 | 366 | 369 | 466 | 475 | 572 | 577 | 583 | 584 | 590 | 596 | | |
| | Electric Fan | 524 | 529 | 534 | 670 | 683 | 813 | 821 | 830 | 830 | 839 | 847 | | |
| | DuraPlate | 817 | 825 | 833 | 847 | 864 | 1096 | 1107 | 1118 | 1118 | 1130 | 1141 | | |
| 80,0 | None | 175 | 177 | 178 | 227 | 231 | 292 | 295 | 298 | 286 | 289 | 292 | | |
| | Shaft Fan | 343 | 346 | 349 | 446 | 455 | 565 | 571 | 577 | 562 | 568 | 574 | | |
| | Electric Fan | 495 | 500 | 505 | 645 | 658 | 799 | 807 | 815 | 802 | 810 | 818 | | |
| | DuraPlate | 772 | 779 | 787 | 817 | 833 | 1072 | 1083 | 1093 | 1084 | 1095 | 1106 | | |
| 90,0 | None | 174 | 176 | 178 | 210 | 214 | 285 | 288 | 291 | 286 | 289 | 292 | | |
| | Shaft Fan | 339 | 342 | 345 | 414 | 423 | 553 | 559 | 564 | 556 | 561 | 567 | | |
| | Electric Fan | 487 | 492 | 497 | 599 | 611 | 784 | 791 | 799 | 788 | 796 | 804 | | |
| | DuraPlate | 757 | 764 | 772 | 760 | 776 | 1052 | 1063 | 1073 | 1060 | 1070 | 1081 | | |
| 100 | None | 165 | 167 | 169 | 214 | 218 | 272 | 275 | 278 | 279 | 282 | 285 | | |
| | Shaft Fan | 324 | 327 | 331 | 417 | 425 | 532 | 537 | 542 | 544 | 549 | 555 | | |
| | Electric Fan | 468 | 473 | 477 | 599 | 611 | 756 | 763 | 771 | 772 | 780 | 788 | | |
| | DuraPlate | 729 | 737 | 744 | 757 | 772 | 1018 | 1028 | 1039 | 1040 | 1050 | 1061 | | |
| 112 | None | 158 | 160 | 161 | 204 | 208 | 285 | 288 | 290 | 267 | 269 | 272 | | |
| | Shaft Fan | 303 | 306 | 309 | 400 | 407 | 549 | 554 | 560 | 523 | 528 | 533 | | |
| | Electric Fan | 435 | 439 | 443 | 576 | 588 | 780 | 788 | 796 | 745 | 753 | 760 | | |
| | DuraPlate | 537 | 542 | 547 | 730 | 744 | 829 | 838 | 846 | 1007 | 1017 | 1027 | | |
| 125 | None | 157 | 159 | 161 | 190 | 194 | 277 | 279 | 282 | 278 | 280 | 283 | | |
| | Shaft Fan | 300 | 303 | 306 | 367 | 374 | 534 | 539 | 545 | 538 | 543 | 549 | | |
| | Electric Fan | 428 | 432 | 437 | 526 | 537 | 760 | 768 | 775 | 767 | 775 | 783 | | |
| | DuraPlate | 528 | 534 | 539 | 528 | 538 | 808 | 816 | 824 | 816 | 824 | 832 | | |
| 140 | None | 150 | 151 | 153 | 193 | 197 | 263 | 266 | 268 | 270 | 272 | 275 | | |
| | Shaft Fan | 287 | 290 | 293 | 369 | 377 | 511 | 516 | 521 | 523 | 529 | 534 | | |
| | Electric Fan | 411 | 416 | 420 | 526 | 537 | 730 | 737 | 744 | 747 | 755 | 762 | | |
| | DuraPlate | 508 | 513 | 518 | 528 | 538 | 776 | 784 | 792 | 795 | 802 | 810 | | |
| 160 | None | | | | 184 | 188 | | | | 257 | 259 | 262 | | |
| | Shaft Fan | | | | 354 | 361 | | | | 501 | 506 | 511 | | |
| | Electric Fan | | | | 506 | 517 | | | | 718 | 725 | 732 | | |
| | DuraPlate | | | | 508 | 518 | | | | 764 | 771 | 779 | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP3 Parallel Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | | |
|-----------|--------------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 | |
| 1200 | 28,0 | None | | | | | | | | | | | | | | | 179 | 181 | 183 | | |
| | | Shaft Fan | | | | | | | | | | | | | | | | 351 | 355 | 358 | |
| | | Electric Fan | | | | | | | | | | | | | | | | 472 | 476 | 481 | |
| | DuraPlate | | | | | | | | | | | | | | | | 378 | 382 | 386 | | |
| | 31,5 | None | 39 | 53 | 60 | 64 | 65 | 76 | 77 | 78 | 97 | 98 | 99 | 114 | 116 | 117 | 168 | 170 | 172 | 177 | |
| | | Shaft Fan | 48 | 65 | 75 | 96 | 97 | 133 | 135 | 136 | 184 | 186 | 188 | 173 | 175 | 177 | 331 | 335 | 338 | 349 | |
| | | Electric Fan | 74 | 113 | 128 | 168 | 172 | 178 | 180 | 182 | 252 | 255 | 257 | 282 | 284 | 287 | 446 | 450 | 455 | 470 | |
| | DuraPlate | N/A | N/A | 118 | 125 | 127 | 148 | 149 | 151 | 192 | 193 | 195 | 236 | 238 | 241 | 357 | 360 | 364 | 376 | | |
| | 35,5 | None | 38 | 51 | 61 | 64 | 65 | 75 | 76 | 77 | 95 | 96 | 97 | 113 | 114 | 115 | 171 | 173 | 175 | 171 | |
| | | Shaft Fan | 46 | 62 | 75 | 95 | 97 | 131 | 133 | 134 | 179 | 181 | 183 | 170 | 172 | 174 | 335 | 339 | 342 | 338 | |
| | | Electric Fan | 71 | 107 | 128 | 168 | 171 | 176 | 177 | 179 | 245 | 248 | 250 | 277 | 280 | 283 | 450 | 455 | 459 | 454 | |
| | DuraPlate | N/A | N/A | 117 | 124 | 127 | 146 | 147 | 149 | 186 | 188 | 190 | 232 | 235 | 237 | 361 | 365 | 368 | 364 | | |
| | 40,0 | None | 38 | 51 | 59 | 62 | 63 | 71 | 72 | 73 | 92 | 93 | 94 | 117 | 118 | 119 | 163 | 165 | 166 | 172 | |
| | | Shaft Fan | 47 | 63 | 73 | 93 | 95 | 125 | 126 | 127 | 174 | 176 | 177 | 176 | 178 | 180 | 317 | 321 | 324 | 338 | |
| | | Electric Fan | 72 | 108 | 124 | 163 | 166 | 167 | 168 | 170 | 238 | 240 | 243 | 285 | 288 | 291 | 426 | 430 | 434 | 454 | |
| | DuraPlate | N/A | N/A | 114 | 121 | 123 | 138 | 140 | 141 | 181 | 183 | 185 | 240 | 242 | 244 | 285 | 287 | 290 | 364 | | |
| | 45,0 | None | 35 | 47 | 54 | 57 | 58 | 66 | 66 | 67 | 90 | 91 | 92 | 105 | 106 | 107 | 153 | 154 | 156 | 161 | |
| | | Shaft Fan | 43 | 57 | 67 | 85 | 87 | 116 | 117 | 118 | 171 | 172 | 174 | 158 | 159 | 161 | 299 | 302 | 305 | 315 | |
| | | Electric Fan | 66 | 100 | 115 | 150 | 153 | 155 | 157 | 158 | 234 | 236 | 239 | 256 | 259 | 261 | 401 | 405 | 409 | 423 | |
| | DuraPlate | N/A | N/A | 89 | 94 | 96 | 108 | 109 | 111 | 150 | 151 | 153 | 180 | 181 | 183 | 268 | 270 | 273 | 282 | | |
| | 50,0 | None | 34 | 45 | 54 | 57 | 58 | 65 | 65 | 66 | 88 | 89 | 90 | 103 | 104 | 105 | 156 | 157 | 159 | 156 | |
| | | Shaft Fan | 41 | 55 | 67 | 85 | 86 | 114 | 115 | 116 | 166 | 167 | 169 | 155 | 157 | 158 | 303 | 306 | 309 | 304 | |
| | | Electric Fan | 64 | 95 | 114 | 149 | 152 | 153 | 154 | 156 | 227 | 229 | 232 | 252 | 255 | 257 | 406 | 410 | 414 | 409 | |
| | DuraPlate | N/A | N/A | 89 | 93 | 95 | 107 | 108 | 109 | 146 | 147 | 148 | 177 | 179 | 180 | 272 | 274 | 277 | 273 | | |
| | 56,0 | None | 34 | 45 | 53 | 55 | 56 | 61 | 62 | 63 | 85 | 86 | 87 | 107 | 108 | 109 | 150 | 151 | 153 | 157 | |
| | | Shaft Fan | 42 | 55 | 65 | 82 | 84 | 108 | 109 | 110 | 160 | 161 | 163 | 161 | 162 | 164 | 285 | 288 | 290 | 305 | |
| | | Electric Fan | 64 | 95 | 111 | 144 | 147 | 145 | 146 | 148 | 218 | 221 | 223 | 260 | 262 | 265 | 379 | 383 | 387 | 409 | |
| | DuraPlate | N/A | N/A | 86 | 91 | 93 | 101 | 102 | 103 | 140 | 142 | 143 | 183 | 185 | 187 | N/A | N/A | N/A | 274 | | |
| 63,0 | None | 29 | 40 | 47 | 49 | 50 | 56 | 57 | 58 | 79 | 80 | 81 | 95 | 95 | 96 | 140 | 142 | 143 | 148 | | |
| | Shaft Fan | 36 | 49 | 58 | 73 | 74 | 99 | 100 | 101 | 149 | 151 | 152 | 141 | 142 | 144 | 268 | 271 | 273 | 283 | | |
| | Electric Fan | 55 | 85 | 100 | 129 | 132 | 133 | 134 | 136 | 204 | 206 | 208 | 226 | 229 | 231 | 358 | 361 | 365 | 377 | | |
| DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| 71,0 | None | 28 | 38 | 47 | 49 | 50 | 56 | 56 | 57 | 77 | 78 | 79 | 93 | 94 | 95 | 143 | 144 | 146 | 143 | | |
| | Shaft Fan | 34 | 46 | 58 | 73 | 74 | 98 | 99 | 100 | 145 | 146 | 148 | 138 | 140 | 141 | 271 | 274 | 277 | 273 | | |
| | Electric Fan | 53 | 81 | 100 | 129 | 131 | 131 | 132 | 134 | 198 | 200 | 202 | 223 | 225 | 227 | 362 | 365 | 369 | 364 | | |
| DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| 80,0 | None | 29 | 38 | 46 | 47 | 48 | 53 | 53 | 54 | 75 | 75 | 76 | 97 | 98 | 99 | 139 | 140 | 142 | 144 | | |
| | Shaft Fan | 35 | 47 | 57 | 71 | 72 | 93 | 94 | 95 | 140 | 141 | 143 | 144 | 145 | 146 | 263 | 265 | 268 | 274 | | |
| | Electric Fan | 54 | 81 | 97 | 125 | 127 | 124 | 125 | 127 | 191 | 193 | 195 | 230 | 232 | 234 | 349 | 353 | 356 | 365 | | |
| DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| 90,0 | None | 27 | 38 | 46 | 45 | 46 | 53 | 54 | 55 | 74 | 74 | 75 | 93 | 94 | 95 | 130 | 131 | 132 | 137 | | |
| | Shaft Fan | 34 | 46 | 56 | 67 | 68 | 94 | 95 | 96 | 138 | 139 | 141 | 139 | 140 | 141 | 247 | 249 | 251 | 260 | | |
| | Electric Fan | 52 | 80 | 96 | 118 | 121 | 126 | 127 | 128 | 189 | 190 | 192 | 222 | 224 | 226 | 328 | 332 | 335 | 347 | | |
| DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| 100 | None | 26 | 36 | 45 | 45 | 46 | 53 | 53 | 54 | 72 | 72 | 73 | 92 | 93 | 94 | 132 | 134 | 135 | 132 | | |
| | Shaft Fan | 32 | 44 | 55 | 67 | 68 | 92 | 93 | 94 | 134 | 135 | 137 | 136 | 137 | 139 | 250 | 253 | 255 | 251 | | |
| | Electric Fan | 50 | 76 | 94 | 118 | 120 | 124 | 125 | 126 | 183 | 185 | 187 | 218 | 220 | 222 | 332 | 336 | 339 | 334 | | |
| DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| 112 | None | 27 | 36 | 43 | 43 | 44 | 50 | 50 | 51 | 69 | 70 | 71 | 96 | 97 | 98 | 130 | 131 | 132 | 133 | | |
| | Shaft Fan | 33 | 44 | 53 | 65 | 66 | 87 | 88 | 89 | 129 | 131 | 132 | 142 | 143 | 144 | 244 | 246 | 249 | 252 | | |
| | Electric Fan | 51 | 77 | 91 | 114 | 117 | 117 | 118 | 119 | 176 | 178 | 180 | 225 | 228 | 230 | 324 | 327 | 331 | 335 | | |
| DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| 125 | None | 24 | 32 | 41 | 40 | 41 | 51 | 52 | 52 | 69 | 70 | 70 | 87 | 88 | 89 | 121 | 122 | 123 | 128 | | |
| | Shaft Fan | 30 | 40 | 50 | 60 | 61 | 89 | 90 | 91 | 127 | 129 | 130 | 129 | 130 | 132 | 228 | 230 | 233 | 241 | | |
| | Electric Fan | 46 | 69 | 85 | 106 | 108 | 119 | 120 | 122 | 173 | 175 | 176 | 206 | 208 | 210 | 304 | 307 | 310 | 321 | | |
| DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| 140 | None | 23 | 31 | 40 | 40 | 41 | 50 | 51 | 51 | 67 | 68 | 68 | 86 | 87 | 87 | 124 | 125 | 127 | 123 | | |
| | Shaft Fan | 28 | 38 | 49 | 60 | 61 | 88 | 89 | 89 | 123 | 125 | 126 | 127 | 128 | 129 | 234 | 236 | 239 | 232 | | |
| | Electric Fan | 44 | 66 | 84 | 105 | 108 | 117 | 118 | 120 | 168 | 169 | 171 | 202 | 204 | 206 | 311 | 314 | 317 | 309 | | |
| DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| 160 | None | 24 | 31 | 39 | 39 | 40 | 47 | 48 | 48 | 65 | 65 | 66 | 90 | 91 | 91 | | | | 125 | | |
| | Shaft Fan | 29 | 38 | 48 | 58 | 59 | 83 | 83 | 84 | 120 | 121 | 122 | 132 | 133 | 135 | | | | 235 | | |
| | Electric Fan | 45 | 66 | 81 | 102 | 104 | 110 | 111 | 113 | 162 | 164 | 166 | 209 | 211 | 213 | | | | 313 | | |
| DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | | | N/A | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP3 Parallel Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|---------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1200 | 28,0 | None | 230 | 232 | 234 | | | 380 | 384 | 387 | | | |
| | | Shaft Fan | 398 | 402 | 406 | | | 653 | 660 | 666 | | | |
| | | Electric Fan | 656 | 662 | 669 | | | 1051 | 1061 | 1072 | | | |
| | | DuraPlate | 1129 | 1140 | 1151 | | | 1554 | 1570 | 1585 | | | |
| | 31,5 | None | 229 | 232 | 234 | 276 | 282 | 361 | 365 | 369 | 371 | 375 | 378 |
| | | Shaft Fan | 394 | 398 | 402 | 481 | 490 | 624 | 630 | 636 | 642 | 648 | 655 |
| | | Electric Fan | 646 | 653 | 659 | 795 | 810 | 1007 | 1017 | 1027 | 1037 | 1048 | 1058 |
| | | DuraPlate | 1108 | 1119 | 1130 | 1114 | 1137 | 1494 | 1509 | 1524 | 1540 | 1555 | 1570 |
| | 35,5 | None | 219 | 221 | 223 | 282 | 287 | 346 | 350 | 353 | 353 | 356 | 360 |
| | | Shaft Fan | 378 | 382 | 385 | 485 | 495 | 600 | 606 | 612 | 612 | 618 | 624 |
| | | Electric Fan | 622 | 628 | 635 | 795 | 811 | 974 | 984 | 993 | 993 | 1003 | 1012 |
| | | DuraPlate | 1070 | 1080 | 1091 | 1108 | 1130 | 1451 | 1465 | 1480 | 1478 | 1493 | 1508 |
| | 40,0 | None | 203 | 205 | 207 | 269 | 274 | 343 | 346 | 349 | 339 | 342 | 345 |
| | | Shaft Fan | 351 | 354 | 358 | 466 | 475 | 588 | 593 | 599 | 590 | 596 | 602 |
| | | Electric Fan | 579 | 585 | 590 | 766 | 781 | 946 | 956 | 965 | 961 | 970 | 980 |
| | | DuraPlate | 998 | 1008 | 1018 | 1070 | 1092 | 1404 | 1418 | 1432 | 1436 | 1450 | 1465 |
| | 45,0 | None | 202 | 204 | 206 | 244 | 249 | 325 | 328 | 331 | 336 | 339 | 342 |
| | | Shaft Fan | 347 | 351 | 354 | 424 | 432 | 559 | 564 | 570 | 578 | 584 | 590 |
| | | Electric Fan | 570 | 576 | 581 | 701 | 715 | 904 | 913 | 922 | 935 | 944 | 953 |
| | | DuraPlate | 978 | 988 | 998 | 985 | 1005 | 1346 | 1359 | 1372 | 1391 | 1405 | 1419 |
| 50,0 | None | 192 | 194 | 196 | 248 | 253 | 310 | 313 | 316 | 317 | 321 | 324 | |
| | Shaft Fan | 332 | 336 | 339 | 428 | 436 | 537 | 542 | 547 | 549 | 554 | 560 | |
| | Electric Fan | 548 | 554 | 559 | 701 | 715 | 872 | 881 | 890 | 891 | 900 | 909 | |
| | DuraPlate | 944 | 954 | 963 | 979 | 998 | 1304 | 1318 | 1331 | 1331 | 1345 | 1358 | |
| 56,0 | None | 181 | 183 | 185 | 237 | 242 | 304 | 307 | 310 | 304 | 307 | 310 | |
| | Shaft Fan | 311 | 314 | 317 | 410 | 418 | 513 | 518 | 523 | 527 | 533 | 538 | |
| | Electric Fan | 511 | 516 | 521 | 675 | 688 | 818 | 826 | 834 | 860 | 869 | 878 | |
| | DuraPlate | 681 | 688 | 695 | 945 | 964 | 935 | 945 | 954 | 1291 | 1304 | 1317 | |
| 63,0 | None | 180 | 182 | 184 | 218 | 222 | 288 | 290 | 293 | 298 | 301 | 304 | |
| | Shaft Fan | 308 | 311 | 314 | 375 | 383 | 488 | 493 | 497 | 505 | 510 | 515 | |
| | Electric Fan | 503 | 508 | 513 | 619 | 631 | 781 | 789 | 797 | 808 | 816 | 824 | |
| | DuraPlate | 670 | 677 | 684 | 670 | 684 | 895 | 904 | 913 | 925 | 934 | 943 | |
| 71,0 | None | 172 | 173 | 175 | 222 | 226 | 275 | 278 | 280 | 281 | 284 | 287 | |
| | Shaft Fan | 294 | 297 | 300 | 379 | 387 | 468 | 473 | 478 | 479 | 484 | 489 | |
| | Electric Fan | 484 | 489 | 493 | 619 | 632 | 754 | 762 | 769 | 770 | 778 | 786 | |
| | DuraPlate | 645 | 651 | 658 | 670 | 683 | 865 | 874 | 883 | 883 | 892 | 901 | |
| 80,0 | None | 202 | 204 | 206 | 211 | 215 | 275 | 277 | 280 | 269 | 272 | 275 | |
| | Shaft Fan | 346 | 350 | 353 | 363 | 370 | 464 | 469 | 473 | 460 | 465 | 470 | |
| | Electric Fan | 570 | 576 | 582 | 595 | 607 | 741 | 749 | 756 | 744 | 752 | 759 | |
| | DuraPlate | 609 | 615 | 621 | 645 | 657 | 849 | 857 | 865 | 854 | 863 | 872 | |
| 90,0 | None | 162 | 163 | 165 | 195 | 199 | 268 | 271 | 273 | 268 | 271 | 274 | |
| | Shaft Fan | 275 | 278 | 281 | 336 | 343 | 454 | 458 | 463 | 455 | 460 | 465 | |
| | Electric Fan | 450 | 454 | 459 | 553 | 564 | 726 | 734 | 741 | 731 | 738 | 745 | |
| | DuraPlate | 599 | 605 | 611 | 599 | 611 | 832 | 840 | 849 | 837 | 846 | 854 | |
| 100 | None | 154 | 155 | 157 | 199 | 203 | 256 | 258 | 261 | 262 | 265 | 267 | |
| | Shaft Fan | 263 | 266 | 268 | 339 | 346 | 435 | 439 | 444 | 445 | 450 | 454 | |
| | Electric Fan | 432 | 436 | 441 | 553 | 564 | 700 | 707 | 714 | 716 | 723 | 730 | |
| | DuraPlate | 576 | 581 | 587 | 598 | 610 | 803 | 811 | 819 | 821 | 829 | 837 | |
| 112 | None | 145 | 146 | 148 | 189 | 193 | 262 | 265 | 268 | 250 | 253 | 255 | |
| | Shaft Fan | 245 | 248 | 250 | 324 | 331 | 445 | 449 | 454 | 427 | 431 | 436 | |
| | Electric Fan | 399 | 403 | 407 | 532 | 542 | 719 | 727 | 734 | 690 | 697 | 704 | |
| | DuraPlate | 429 | 433 | 438 | 576 | 587 | 660 | 667 | 674 | 793 | 801 | 809 | |
| 125 | None | 144 | 146 | 147 | 174 | 178 | 255 | 257 | 260 | 256 | 258 | 261 | |
| | Shaft Fan | 243 | 245 | 248 | 296 | 302 | 433 | 437 | 441 | 436 | 440 | 444 | |
| | Electric Fan | 393 | 397 | 401 | 483 | 493 | 700 | 707 | 714 | 707 | 714 | 721 | |
| | DuraPlate | 423 | 428 | 432 | 421 | 429 | 643 | 649 | 656 | 649 | 655 | 662 | |
| 140 | None | 137 | 138 | 140 | 177 | 181 | 242 | 245 | 247 | 248 | 251 | 253 | |
| | Shaft Fan | 232 | 234 | 237 | 299 | 305 | 413 | 417 | 422 | 424 | 428 | 432 | |
| | Electric Fan | 378 | 382 | 386 | 484 | 493 | 672 | 679 | 686 | 688 | 695 | 702 | |
| | DuraPlate | 406 | 410 | 414 | 423 | 431 | 616 | 622 | 629 | 631 | 638 | 644 | |
| 160 | None | | | | 169 | 172 | | | | 236 | 239 | 241 | |
| | Shaft Fan | | | | 286 | 292 | | | | 405 | 409 | 413 | |
| | Electric Fan | | | | 465 | 475 | | | | 661 | 668 | 674 | |
| | DuraPlate | | | | 406 | 414 | | | | 606 | 612 | 618 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP3 Parallel Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | | |
|---------|--------------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 | |
| 1000 | 28,0 | None | | | | | | | | | | | | | | | 181 | 182 | 184 | | |
| | | Shaft Fan | | | | | | | | | | | | | | | | 306 | 309 | 312 | |
| | | Electric Fan | | | | | | | | | | | | | | | | 460 | 464 | 469 | |
| | | DuraPlate | | | | | | | | | | | | | | | | 336 | 340 | 343 | |
| | 31,5 | None | 37 | 50 | 57 | 60 | 61 | 72 | 72 | 73 | 92 | 92 | 93 | 112 | 114 | 115 | 170 | 171 | 173 | 179 | |
| | | Shaft Fan | 42 | 57 | 66 | 81 | 82 | 112 | 113 | 114 | 153 | 155 | 156 | 151 | 153 | 154 | 288 | 291 | 294 | 304 | |
| | | Electric Fan | 69 | 106 | 120 | 158 | 162 | 168 | 169 | 171 | 237 | 239 | 241 | 271 | 274 | 276 | 434 | 438 | 443 | 457 | |
| | | DuraPlate | N/A | N/A | 101 | 107 | 109 | 128 | 130 | 131 | 164 | 166 | 167 | 207 | 209 | 211 | 317 | 320 | 323 | 334 | |
| | 35,5 | None | 35 | 48 | 57 | 60 | 61 | 71 | 71 | 72 | 89 | 90 | 91 | 111 | 112 | 113 | 173 | 174 | 176 | 173 | |
| | | Shaft Fan | 41 | 55 | 66 | 81 | 82 | 110 | 111 | 112 | 149 | 150 | 152 | 149 | 151 | 152 | 292 | 295 | 298 | 293 | |
| | | Electric Fan | 67 | 101 | 120 | 158 | 161 | 165 | 167 | 168 | 230 | 232 | 235 | 267 | 269 | 272 | 438 | 442 | 447 | 442 | |
| | | DuraPlate | N/A | N/A | 101 | 107 | 109 | 126 | 128 | 129 | 159 | 161 | 163 | 204 | 206 | 208 | 321 | 324 | 327 | 323 | |
| | 40,0 | None | 36 | 48 | 55 | 58 | 60 | 67 | 68 | 68 | 87 | 88 | 88 | 115 | 116 | 117 | 163 | 165 | 166 | 174 | |
| | | Shaft Fan | 41 | 55 | 64 | 78 | 80 | 104 | 105 | 106 | 145 | 146 | 148 | 154 | 156 | 157 | 275 | 278 | 281 | 294 | |
| | | Electric Fan | 68 | 102 | 117 | 153 | 156 | 157 | 158 | 160 | 223 | 226 | 228 | 275 | 277 | 280 | 413 | 417 | 421 | 442 | |
| | | DuraPlate | N/A | N/A | 98 | 104 | 106 | 120 | 121 | 122 | 155 | 156 | 158 | 210 | 213 | 215 | 258 | 261 | 264 | 324 | |
| | 45,0 | None | 33 | 44 | 51 | 53 | 54 | 62 | 62 | 63 | 85 | 86 | 87 | 102 | 103 | 104 | 153 | 154 | 156 | 161 | |
| | | Shaft Fan | 38 | 51 | 59 | 72 | 73 | 96 | 97 | 98 | 142 | 143 | 145 | 137 | 139 | 140 | 258 | 261 | 264 | 273 | |
| | | Electric Fan | 62 | 94 | 108 | 141 | 144 | 146 | 147 | 148 | 219 | 222 | 224 | 245 | 248 | 250 | 389 | 393 | 397 | 410 | |
| | | DuraPlate | N/A | N/A | 78 | 82 | 83 | 95 | 96 | 97 | 131 | 132 | 134 | 161 | 162 | 164 | 243 | 245 | 248 | 256 | |
| | 50,0 | None | 32 | 42 | 51 | 53 | 54 | 61 | 61 | 62 | 83 | 83 | 84 | 100 | 101 | 102 | 155 | 157 | 158 | 155 | |
| | | Shaft Fan | 36 | 48 | 59 | 72 | 73 | 95 | 96 | 97 | 138 | 139 | 141 | 135 | 136 | 138 | 262 | 265 | 267 | 263 | |
| | | Electric Fan | 60 | 89 | 108 | 140 | 143 | 143 | 145 | 146 | 213 | 215 | 217 | 241 | 244 | 246 | 393 | 397 | 401 | 396 | |
| | | DuraPlate | N/A | N/A | 78 | 82 | 83 | 94 | 95 | 96 | 127 | 129 | 130 | 158 | 160 | 161 | 246 | 249 | 251 | 247 | |
| | 56,0 | None | 32 | 42 | 50 | 52 | 53 | 58 | 58 | 59 | 80 | 81 | 81 | 104 | 105 | 106 | 142 | 143 | 145 | 156 | |
| | | Shaft Fan | 37 | 49 | 57 | 70 | 71 | 90 | 91 | 92 | 133 | 134 | 136 | 140 | 141 | 143 | 239 | 241 | 243 | 264 | |
| | | Electric Fan | 61 | 90 | 104 | 136 | 139 | 136 | 137 | 138 | 205 | 207 | 209 | 249 | 251 | 254 | 358 | 362 | 365 | 396 | |
| | | DuraPlate | N/A | N/A | 76 | 79 | 81 | 89 | 90 | 91 | 123 | 124 | 125 | 164 | 165 | 167 | N/A | N/A | N/A | 248 | |
| 63,0 | None | 27 | 37 | 44 | 46 | 46 | 53 | 54 | 54 | 75 | 76 | 77 | 89 | 90 | 91 | 133 | 134 | 135 | 140 | | |
| | Shaft Fan | 31 | 43 | 51 | 61 | 63 | 83 | 84 | 85 | 125 | 126 | 127 | 119 | 121 | 122 | 224 | 226 | 229 | 236 | | |
| | Electric Fan | 52 | 80 | 93 | 121 | 124 | 125 | 126 | 128 | 192 | 194 | 196 | 213 | 215 | 217 | 337 | 341 | 344 | 356 | | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| 71,0 | None | 26 | 35 | 44 | 46 | 46 | 52 | 53 | 53 | 73 | 74 | 75 | 87 | 88 | 89 | 135 | 137 | 138 | 135 | | |
| | Shaft Fan | 30 | 41 | 51 | 61 | 63 | 82 | 83 | 83 | 121 | 122 | 124 | 117 | 118 | 120 | 227 | 230 | 232 | 228 | | |
| | Electric Fan | 50 | 76 | 93 | 121 | 123 | 123 | 124 | 126 | 186 | 188 | 190 | 209 | 211 | 213 | 341 | 344 | 348 | 343 | | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| 80,0 | None | 27 | 36 | 43 | 44 | 45 | 50 | 51 | 51 | 71 | 71 | 72 | 91 | 92 | 93 | 131 | 133 | 134 | 136 | | |
| | Shaft Fan | 31 | 41 | 50 | 60 | 61 | 77 | 78 | 79 | 117 | 118 | 119 | 122 | 123 | 124 | 220 | 222 | 225 | 229 | | |
| | Electric Fan | 51 | 76 | 91 | 117 | 119 | 117 | 118 | 119 | 180 | 181 | 183 | 216 | 218 | 220 | 330 | 333 | 336 | 344 | | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| 90,0 | None | 26 | 35 | 43 | 42 | 43 | 50 | 51 | 51 | 70 | 70 | 71 | 88 | 89 | 90 | 123 | 124 | 125 | 130 | | |
| | Shaft Fan | 29 | 41 | 49 | 56 | 58 | 78 | 79 | 80 | 116 | 117 | 118 | 118 | 119 | 120 | 206 | 208 | 210 | 218 | | |
| | Electric Fan | 49 | 75 | 90 | 111 | 113 | 118 | 119 | 121 | 178 | 179 | 181 | 209 | 211 | 213 | 310 | 313 | 316 | 327 | | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| 100 | None | 25 | 33 | 42 | 42 | 43 | 50 | 50 | 51 | 68 | 68 | 69 | 86 | 87 | 88 | 125 | 126 | 127 | 125 | | |
| | Shaft Fan | 28 | 39 | 49 | 56 | 58 | 77 | 78 | 79 | 112 | 113 | 114 | 116 | 117 | 118 | 209 | 212 | 214 | 210 | | |
| | Electric Fan | 47 | 72 | 88 | 111 | 113 | 116 | 118 | 119 | 172 | 174 | 176 | 205 | 207 | 209 | 313 | 317 | 320 | 315 | | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| 112 | None | 25 | 34 | 41 | 41 | 42 | 47 | 47 | 48 | 65 | 66 | 67 | 90 | 91 | 92 | 123 | 124 | 126 | 126 | | |
| | Shaft Fan | 29 | 39 | 47 | 55 | 56 | 73 | 74 | 74 | 108 | 109 | 110 | 121 | 122 | 123 | 205 | 207 | 209 | 211 | | |
| | Electric Fan | 47 | 72 | 85 | 107 | 110 | 110 | 111 | 112 | 166 | 168 | 169 | 212 | 214 | 217 | 306 | 309 | 312 | 316 | | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| 125 | None | 23 | 30 | 38 | 37 | 38 | 48 | 48 | 49 | 64 | 65 | 66 | 82 | 83 | 84 | 115 | 116 | 117 | 121 | | |
| | Shaft Fan | 26 | 35 | 44 | 50 | 51 | 74 | 75 | 76 | 106 | 107 | 108 | 110 | 111 | 112 | 191 | 193 | 195 | 203 | | |
| | Electric Fan | 43 | 65 | 80 | 99 | 101 | 111 | 113 | 114 | 162 | 163 | 165 | 194 | 195 | 197 | 286 | 289 | 292 | 303 | | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| 140 | None | 22 | 29 | 37 | 37 | 38 | 47 | 47 | 48 | 62 | 63 | 64 | 81 | 81 | 82 | 118 | 119 | 120 | 117 | | |
| | Shaft Fan | 25 | 33 | 43 | 50 | 51 | 73 | 74 | 74 | 103 | 104 | 105 | 108 | 109 | 110 | 196 | 198 | 200 | 195 | | |
| | Electric Fan | 41 | 62 | 78 | 99 | 101 | 110 | 111 | 112 | 157 | 158 | 160 | 190 | 192 | 194 | 293 | 296 | 299 | 292 | | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | |
| 160 | None | 22 | 29 | 36 | 36 | 37 | 44 | 45 | 45 | 60 | 61 | 62 | 84 | 85 | 86 | | | | 118 | | |
| | Shaft Fan | 25 | 33 | 42 | 49 | 50 | 69 | 69 | 70 | 99 | 100 | 101 | 112 | 113 | 115 | | | | 197 | | |
| | Electric Fan | 42 | 62 | 76 | 96 | 98 | 103 | 104 | 105 | 152 | 153 | 155 | 197 | 199 | 201 | | | | 295 | | |
| | DuraPlate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | | | | N/A | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP3 Parallel Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|---------|--------------|-------------------|------------|-----|-----|-----|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1000 | 28,0 | None | 219 | 221 | 223 | | | 368 | 372 | 376 | | | |
| | | Shaft Fan | 340 | 343 | 347 | | | 566 | 572 | 578 | | | |
| | | Electric Fan | 617 | 623 | 629 | | | 996 | 1006 | 1016 | | | |
| | | DuraPlate | 928 | 938 | 947 | | | 1285 | 1298 | 1311 | | | |
| | 31,5 | None | 218 | 220 | 222 | 263 | 268 | 350 | 353 | 357 | 360 | 364 | 368 |
| | | Shaft Fan | 337 | 341 | 344 | 410 | 419 | 540 | 545 | 550 | 557 | 562 | 568 |
| | | Electric Fan | 608 | 614 | 620 | 748 | 762 | 953 | 963 | 972 | 983 | 993 | 1003 |
| | | DuraPlate | 913 | 922 | 931 | 915 | 934 | 1233 | 1246 | 1258 | 1272 | 1285 | 1298 |
| | 35,5 | None | 208 | 210 | 212 | 268 | 273 | 335 | 338 | 342 | 342 | 345 | 349 |
| | | Shaft Fan | 323 | 326 | 329 | 415 | 423 | 519 | 524 | 529 | 530 | 535 | 540 |
| | | Electric Fan | 585 | 591 | 597 | 748 | 763 | 922 | 931 | 940 | 940 | 950 | 959 |
| | | DuraPlate | 880 | 889 | 897 | 913 | 931 | 1196 | 1208 | 1220 | 1219 | 1232 | 1244 |
| | 40,0 | None | 192 | 194 | 196 | 256 | 261 | 328 | 331 | 335 | 328 | 331 | 335 |
| | | Shaft Fan | 298 | 301 | 304 | 397 | 405 | 505 | 510 | 515 | 510 | 515 | 520 |
| | | Electric Fan | 543 | 548 | 554 | 720 | 734 | 892 | 901 | 910 | 910 | 919 | 928 |
| | | DuraPlate | 818 | 826 | 835 | 880 | 898 | 1156 | 1167 | 1179 | 1183 | 1194 | 1206 |
| | 45,0 | None | 191 | 193 | 195 | 231 | 235 | 311 | 314 | 317 | 322 | 325 | 328 |
| | | Shaft Fan | 296 | 299 | 302 | 360 | 367 | 480 | 485 | 489 | 497 | 502 | 507 |
| | | Electric Fan | 535 | 540 | 546 | 658 | 671 | 852 | 860 | 869 | 881 | 890 | 899 |
| | | DuraPlate | 804 | 812 | 820 | 807 | 823 | 1106 | 1117 | 1128 | 1144 | 1155 | 1167 |
| 50,0 | None | 182 | 184 | 185 | 235 | 240 | 297 | 300 | 303 | 304 | 307 | 310 | |
| | Shaft Fan | 283 | 285 | 288 | 364 | 371 | 460 | 465 | 469 | 471 | 476 | 480 | |
| | Electric Fan | 514 | 519 | 525 | 658 | 671 | 822 | 830 | 838 | 840 | 848 | 857 | |
| | DuraPlate | 774 | 782 | 790 | 804 | 820 | 1070 | 1081 | 1091 | 1093 | 1104 | 1114 | |
| 56,0 | None | 169 | 171 | 173 | 224 | 228 | 286 | 289 | 291 | 291 | 294 | 296 | |
| | Shaft Fan | 263 | 265 | 268 | 348 | 355 | 437 | 441 | 445 | 452 | 457 | 461 | |
| | Electric Fan | 478 | 482 | 487 | 633 | 646 | 766 | 773 | 781 | 811 | 819 | 827 | |
| | DuraPlate | 564 | 569 | 575 | 775 | 790 | 777 | 784 | 792 | 1058 | 1068 | 1079 | |
| 63,0 | None | 169 | 170 | 172 | 204 | 208 | 271 | 273 | 276 | 280 | 283 | 286 | |
| | Shaft Fan | 261 | 263 | 266 | 317 | 323 | 415 | 419 | 423 | 429 | 434 | 438 | |
| | Electric Fan | 470 | 475 | 480 | 578 | 590 | 731 | 739 | 746 | 756 | 764 | 771 | |
| | DuraPlate | 556 | 561 | 567 | 554 | 565 | 742 | 749 | 757 | 767 | 775 | 782 | |
| 71,0 | None | 160 | 162 | 164 | 208 | 212 | 258 | 261 | 264 | 265 | 267 | 270 | |
| | Shaft Fan | 249 | 251 | 254 | 321 | 327 | 398 | 402 | 406 | 407 | 411 | 415 | |
| | Electric Fan | 452 | 456 | 461 | 579 | 590 | 706 | 713 | 720 | 721 | 728 | 735 | |
| | DuraPlate | 534 | 539 | 544 | 555 | 566 | 716 | 723 | 730 | 732 | 739 | 746 | |
| 80,0 | None | 152 | 153 | 155 | 198 | 202 | 258 | 261 | 263 | 253 | 256 | 258 | |
| | Shaft Fan | 235 | 237 | 240 | 306 | 313 | 395 | 399 | 403 | 391 | 395 | 399 | |
| | Electric Fan | 427 | 431 | 435 | 556 | 567 | 694 | 701 | 708 | 696 | 703 | 710 | |
| | DuraPlate | 504 | 509 | 514 | 533 | 544 | 704 | 711 | 718 | 706 | 713 | 721 | |
| 90,0 | None | 151 | 153 | 154 | 182 | 186 | 252 | 254 | 257 | 252 | 255 | 257 | |
| | Shaft Fan | 233 | 235 | 238 | 284 | 289 | 386 | 390 | 393 | 387 | 391 | 395 | |
| | Electric Fan | 420 | 424 | 429 | 516 | 527 | 680 | 687 | 693 | 684 | 691 | 698 | |
| | DuraPlate | 496 | 501 | 506 | 495 | 505 | 690 | 696 | 703 | 694 | 701 | 708 | |
| 100 | None | 144 | 145 | 146 | 186 | 190 | 240 | 242 | 245 | 246 | 248 | 251 | |
| | Shaft Fan | 222 | 225 | 227 | 287 | 293 | 369 | 373 | 377 | 378 | 382 | 386 | |
| | Electric Fan | 403 | 407 | 412 | 517 | 527 | 655 | 662 | 668 | 670 | 676 | 683 | |
| | DuraPlate | 476 | 481 | 486 | 496 | 506 | 665 | 671 | 678 | 679 | 686 | 693 | |
| 112 | None | 135 | 136 | 137 | 177 | 180 | 244 | 247 | 249 | 235 | 237 | 240 | |
| | Shaft Fan | 207 | 209 | 211 | 274 | 279 | 376 | 380 | 383 | 362 | 366 | 370 | |
| | Electric Fan | 372 | 376 | 380 | 497 | 506 | 672 | 678 | 685 | 646 | 652 | 659 | |
| | DuraPlate | 360 | 363 | 367 | 476 | 486 | 552 | 557 | 563 | 655 | 662 | 668 | |
| 125 | None | 134 | 135 | 137 | 162 | 165 | 237 | 240 | 242 | 238 | 241 | 243 | |
| | Shaft Fan | 205 | 207 | 209 | 249 | 254 | 365 | 369 | 373 | 368 | 371 | 375 | |
| | Electric Fan | 367 | 370 | 374 | 450 | 459 | 654 | 660 | 667 | 660 | 667 | 673 | |
| | DuraPlate | 356 | 359 | 363 | 353 | 360 | 537 | 542 | 548 | 542 | 547 | 552 | |
| 140 | None | 127 | 129 | 130 | 165 | 168 | 225 | 228 | 230 | 231 | 234 | 236 | |
| | Shaft Fan | 196 | 198 | 200 | 252 | 257 | 348 | 352 | 355 | 357 | 361 | 364 | |
| | Electric Fan | 352 | 356 | 359 | 451 | 460 | 627 | 633 | 640 | 642 | 649 | 655 | |
| | DuraPlate | 341 | 344 | 347 | 355 | 362 | 514 | 519 | 524 | 527 | 532 | 537 | |
| 160 | None | | | | 157 | 160 | | | | 231 | 234 | 236 | |
| | Shaft Fan | | | | 241 | 246 | | | | 357 | 361 | 364 | |
| | Electric Fan | | | | 433 | 442 | | | | 642 | 649 | 655 | |
| | DuraPlate | | | | 340 | 347 | | | | 505 | 510 | 515 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP3 Parallel Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | | |
|---------------------------|---------------------------|---------------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 | |
| 900 | 28.0 | None | | | | | | | | | | | | | | | 178 | 180 | 182 | | |
| | | Shaft Fan | | | | | | | | | | | | | | | | 281 | 284 | 286 | |
| | | Electric Fan DuraPlate | | | | | | | | | | | | | | | | 449 | 453 | 458 | |
| | 31.5 | None | 36 | 48 | 55 | 58 | 59 | 70 | 70 | 71 | 89 | 90 | 91 | 110 | 111 | 112 | 168 | 169 | 171 | 177 | |
| | | Shaft Fan | 41 | 55 | 64 | 73 | 75 | 101 | 102 | 103 | 139 | 140 | 142 | 140 | 141 | 143 | 264 | 267 | 270 | 279 | |
| | | Electric Fan DuraPlate | 67 | 102 | 116 | 153 | 156 | 162 | 164 | 166 | 229 | 231 | 233 | 263 | 266 | 269 | 424 | 428 | 432 | 447 | |
| | 35.5 | None | 34 | 46 | 55 | 58 | 59 | 68 | 69 | 70 | 87 | 88 | 88 | 108 | 109 | 110 | 170 | 172 | 174 | 171 | |
| | | Shaft Fan | 39 | 53 | 64 | 73 | 75 | 100 | 101 | 102 | 135 | 136 | 138 | 137 | 139 | 140 | 268 | 271 | 273 | 269 | |
| | | Electric Fan DuraPlate | 64 | 97 | 116 | 152 | 155 | 160 | 161 | 163 | 222 | 225 | 227 | 259 | 262 | 264 | 428 | 432 | 436 | 432 | |
| | 40.0 | None | 35 | 46 | 53 | 56 | 57 | 65 | 66 | 66 | 84 | 85 | 86 | 112 | 114 | 115 | 160 | 162 | 164 | 172 | |
| | | Shaft Fan | 40 | 53 | 62 | 71 | 73 | 95 | 96 | 96 | 131 | 133 | 134 | 142 | 144 | 145 | 252 | 255 | 257 | 270 | |
| | | Electric Fan DuraPlate | 65 | 98 | 112 | 148 | 151 | 151 | 153 | 154 | 216 | 218 | 220 | 267 | 270 | 272 | 403 | 407 | 411 | 432 | |
| | 45.0 | None | 32 | 42 | 49 | 51 | 52 | 60 | 60 | 61 | 82 | 83 | 84 | 100 | 101 | 102 | 150 | 152 | 153 | 159 | |
| | | Shaft Fan | 36 | 49 | 57 | 65 | 66 | 87 | 88 | 89 | 129 | 130 | 131 | 126 | 128 | 129 | 237 | 239 | 241 | 250 | |
| | | Electric Fan DuraPlate | 60 | 91 | 104 | 136 | 138 | 141 | 142 | 143 | 212 | 214 | 216 | 238 | 240 | 243 | 379 | 383 | 387 | 400 | |
| | 50.0 | None | 30 | 40 | 49 | 51 | 52 | 59 | 59 | 60 | 80 | 81 | 82 | 98 | 99 | 100 | 153 | 154 | 156 | 153 | |
| | | Shaft Fan | 35 | 46 | 57 | 65 | 66 | 86 | 87 | 88 | 125 | 126 | 127 | 124 | 125 | 127 | 240 | 243 | 245 | 241 | |
| | | Electric Fan DuraPlate | 58 | 86 | 104 | 135 | 138 | 138 | 140 | 141 | 206 | 208 | 210 | 234 | 237 | 239 | 383 | 387 | 391 | 386 | |
| | 56.0 | None | 31 | 41 | 48 | 50 | 51 | 56 | 56 | 57 | 77 | 78 | 79 | 102 | 103 | 104 | 138 | 140 | 141 | 154 | |
| | | Shaft Fan | 36 | 47 | 55 | 63 | 64 | 81 | 82 | 83 | 120 | 122 | 123 | 129 | 130 | 132 | 217 | 220 | 222 | 242 | |
| Electric Fan DuraPlate | | 58 | 86 | 100 | 131 | 134 | 131 | 132 | 134 | 198 | 200 | 202 | 242 | 244 | 246 | 348 | 351 | 355 | 386 | | |
| 63.0 | None | 26 | 36 | 42 | 44 | 45 | 51 | 52 | 52 | 73 | 73 | 74 | 86 | 87 | 88 | 130 | 131 | 132 | 137 | | |
| | Shaft Fan | 30 | 41 | 49 | 56 | 57 | 75 | 76 | 76 | 113 | 114 | 115 | 109 | 110 | 112 | 204 | 206 | 208 | 215 | | |
| | Electric Fan DuraPlate | 50 | 77 | 90 | 117 | 119 | 121 | 122 | 123 | 185 | 187 | 189 | 206 | 208 | 210 | 327 | 331 | 334 | 345 | | |
| 71.0 | None | 25 | 34 | 43 | 44 | 45 | 50 | 51 | 51 | 70 | 71 | 72 | 85 | 86 | 86 | 132 | 133 | 135 | 132 | | |
| | Shaft Fan | 29 | 39 | 49 | 56 | 57 | 74 | 74 | 75 | 109 | 110 | 111 | 107 | 109 | 110 | 207 | 209 | 211 | 208 | | |
| | Electric Fan DuraPlate | 48 | 73 | 90 | 116 | 118 | 119 | 120 | 121 | 179 | 181 | 183 | 202 | 204 | 206 | 331 | 334 | 338 | 333 | | |
| 80.0 | None | 26 | 34 | 41 | 43 | 43 | 48 | 48 | 49 | 68 | 69 | 70 | 88 | 89 | 90 | 128 | 129 | 131 | 133 | | |
| | Shaft Fan | 30 | 40 | 48 | 54 | 55 | 70 | 71 | 71 | 106 | 107 | 108 | 112 | 113 | 114 | 201 | 203 | 205 | 209 | | |
| | Electric Fan DuraPlate | 49 | 73 | 87 | 113 | 115 | 112 | 114 | 115 | 173 | 175 | 176 | 209 | 211 | 213 | 320 | 323 | 326 | 334 | | |
| 90.0 | None | 25 | 34 | 41 | 40 | 41 | 49 | 49 | 49 | 67 | 68 | 69 | 86 | 86 | 87 | 119 | 121 | 122 | 126 | | |
| | Shaft Fan | 28 | 39 | 48 | 51 | 52 | 71 | 72 | 72 | 104 | 105 | 106 | 108 | 109 | 110 | 188 | 190 | 191 | 198 | | |
| | Electric Fan DuraPlate | 47 | 72 | 87 | 107 | 109 | 114 | 115 | 116 | 171 | 173 | 175 | 202 | 204 | 206 | 300 | 303 | 306 | 317 | | |
| 100 | None | 24 | 32 | 40 | 40 | 41 | 48 | 48 | 49 | 65 | 66 | 67 | 84 | 85 | 86 | 122 | 123 | 124 | 122 | | |
| | Shaft Fan | 27 | 37 | 47 | 51 | 52 | 70 | 70 | 71 | 101 | 102 | 103 | 106 | 107 | 108 | 191 | 193 | 195 | 191 | | |
| | Electric Fan DuraPlate | 45 | 69 | 85 | 107 | 109 | 112 | 113 | 114 | 166 | 168 | 169 | 199 | 200 | 202 | 304 | 307 | 310 | 306 | | |
| 112 | None | 24 | 33 | 39 | 39 | 40 | 45 | 45 | 46 | 63 | 64 | 64 | 88 | 89 | 89 | 119 | 120 | 121 | 122 | | |
| | Shaft Fan | 28 | 38 | 45 | 50 | 51 | 66 | 66 | 67 | 98 | 99 | 100 | 111 | 112 | 113 | 186 | 187 | 189 | 192 | | |
| | Electric Fan DuraPlate | 46 | 69 | 82 | 103 | 106 | 106 | 107 | 108 | 160 | 162 | 163 | 206 | 208 | 210 | 295 | 298 | 301 | 306 | | |
| 125 | None | 22 | 29 | 36 | 36 | 36 | 46 | 46 | 47 | 62 | 62 | 63 | 79 | 80 | 81 | 111 | 112 | 113 | 117 | | |
| | Shaft Fan | 25 | 33 | 42 | 45 | 46 | 67 | 68 | 68 | 95 | 96 | 97 | 100 | 101 | 102 | 173 | 175 | 177 | 183 | | |
| | Electric Fan DuraPlate | 41 | 62 | 77 | 95 | 97 | 107 | 108 | 109 | 155 | 157 | 158 | 186 | 188 | 190 | 276 | 279 | 282 | 292 | | |
| 140 | None | 21 | 27 | 36 | 36 | 37 | 45 | 46 | 46 | 60 | 60 | 61 | 78 | 78 | 79 | 114 | 115 | 116 | 113 | | |
| | Shaft Fan | 24 | 32 | 41 | 45 | 46 | 66 | 66 | 67 | 92 | 93 | 94 | 98 | 99 | 100 | 178 | 179 | 181 | 176 | | |
| | Electric Fan DuraPlate | 40 | 59 | 75 | 95 | 97 | 105 | 106 | 107 | 150 | 152 | 153 | 183 | 185 | 186 | 283 | 286 | 289 | 281 | | |
| 160 | None | 21 | 28 | 35 | 35 | 35 | 42 | 43 | 43 | 58 | 59 | 59 | 81 | 82 | 83 | | | | 114 | | |
| | Shaft Fan | 24 | 32 | 40 | 44 | 45 | 62 | 62 | 63 | 89 | 90 | 91 | 102 | 103 | 104 | | | | 178 | | |
| | Electric Fan DuraPlate | 40 | 60 | 73 | 92 | 94 | 99 | 100 | 101 | 146 | 147 | 149 | 190 | 192 | 194 | | | | 285 | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperatures will vary based upon exact ambient conditions and load profile.

* Contact Factory.

Type VP3 Parallel Shaft

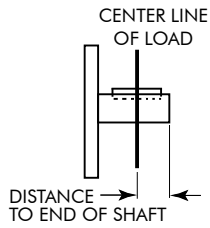
Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|---------|--------------|-------------------|------------|-----|-----|-----|-----|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 900 | 28.0 | None | 211 | 214 | 216 | | | 358 | 362 | 365 | | | |
| | | Shaft Fan | 310 | 313 | 316 | | | 520 | 525 | 531 | | | |
| | | Electric Fan | 594 | 600 | 606 | | | 962 | 971 | 981 | | | |
| | | DuraPlate | 830 | 839 | 847 | | | 1152 | 1164 | 1175 | | | |
| | 31.5 | None | 262 | 264 | 267 | 254 | 260 | 340 | 344 | 347 | 351 | 355 | 358 |
| | | Shaft Fan | 308 | 311 | 314 | 374 | 382 | 495 | 500 | 505 | 511 | 516 | 522 |
| | | Electric Fan | 586 | 592 | 597 | 720 | 734 | 920 | 930 | 939 | 950 | 959 | 969 |
| | | DuraPlate | 817 | 825 | 834 | 818 | 835 | 1105 | 1116 | 1127 | 1140 | 1151 | 1163 |
| | 35.5 | None | 201 | 203 | 205 | 259 | 264 | 326 | 329 | 332 | 333 | 336 | 339 |
| | | Shaft Fan | 294 | 297 | 300 | 379 | 386 | 476 | 481 | 485 | 486 | 491 | 496 |
| | | Electric Fan | 563 | 569 | 575 | 721 | 735 | 890 | 899 | 908 | 908 | 917 | 926 |
| | | DuraPlate | 787 | 795 | 803 | 817 | 833 | 1070 | 1080 | 1091 | 1091 | 1102 | 1113 |
| | 40.0 | None | 185 | 187 | 189 | 247 | 252 | 318 | 321 | 324 | 319 | 322 | 325 |
| | | Shaft Fan | 271 | 274 | 277 | 363 | 370 | 462 | 467 | 472 | 467 | 472 | 477 |
| | | Electric Fan | 523 | 528 | 533 | 693 | 707 | 860 | 869 | 877 | 878 | 887 | 896 |
| | | DuraPlate | 731 | 738 | 745 | 787 | 803 | 1033 | 1043 | 1054 | 1057 | 1068 | 1078 |
| | 45.0 | None | 184 | 186 | 188 | 222 | 227 | 301 | 304 | 307 | 311 | 315 | 318 |
| | | Shaft Fan | 269 | 272 | 275 | 328 | 334 | 439 | 443 | 448 | 454 | 459 | 464 |
| | | Electric Fan | 515 | 520 | 525 | 633 | 645 | 821 | 829 | 837 | 849 | 858 | 866 |
| | | DuraPlate | 719 | 726 | 733 | 720 | 734 | 988 | 998 | 1007 | 1022 | 1032 | 1042 |
| 50.0 | None | 175 | 177 | 179 | 226 | 231 | 287 | 290 | 293 | 294 | 297 | 300 | |
| | Shaft Fan | 257 | 260 | 262 | 332 | 338 | 421 | 425 | 429 | 431 | 435 | 439 | |
| | Electric Fan | 495 | 500 | 505 | 633 | 646 | 792 | 800 | 808 | 809 | 817 | 826 | |
| | DuraPlate | 692 | 699 | 706 | 718 | 733 | 955 | 964 | 974 | 975 | 985 | 995 | |
| 56.0 | None | 163 | 164 | 166 | 216 | 220 | 275 | 278 | 280 | 281 | 284 | 287 | |
| | Shaft Fan | 238 | 241 | 243 | 317 | 323 | 398 | 402 | 406 | 413 | 417 | 421 | |
| | Electric Fan | 459 | 463 | 468 | 609 | 621 | 736 | 744 | 751 | 781 | 789 | 797 | |
| | DuraPlate | 506 | 511 | 516 | 692 | 706 | 898 | 905 | 912 | 943 | 953 | 962 | |
| 63.0 | None | 162 | 164 | 165 | 196 | 199 | 260 | 263 | 266 | 281 | 284 | 287 | |
| | Shaft Fan | 237 | 239 | 242 | 288 | 293 | 378 | 382 | 386 | 413 | 417 | 421 | |
| | Electric Fan | 452 | 457 | 461 | 555 | 566 | 703 | 710 | 717 | 781 | 789 | 797 | |
| | DuraPlate | 500 | 505 | 510 | 497 | 507 | 667 | 673 | 680 | 689 | 696 | 703 | |
| 71.0 | None | 154 | 156 | 157 | 199 | 203 | 249 | 251 | 254 | 255 | 257 | 260 | |
| | Shaft Fan | 226 | 228 | 230 | 291 | 297 | 362 | 366 | 370 | 371 | 374 | 378 | |
| | Electric Fan | 434 | 438 | 443 | 556 | 567 | 678 | 685 | 692 | 693 | 700 | 707 | |
| | DuraPlate | 479 | 484 | 489 | 499 | 509 | 643 | 649 | 656 | 657 | 663 | 670 | |
| 80.0 | None | 146 | 147 | 149 | 190 | 193 | 248 | 251 | 253 | 243 | 246 | 248 | |
| | Shaft Fan | 213 | 216 | 218 | 278 | 284 | 360 | 363 | 367 | 356 | 359 | 363 | |
| | Electric Fan | 410 | 414 | 418 | 534 | 545 | 667 | 674 | 680 | 669 | 676 | 682 | |
| | DuraPlate | 453 | 457 | 462 | 479 | 488 | 633 | 639 | 645 | 634 | 640 | 646 | |
| 90.0 | None | 145 | 147 | 148 | 175 | 179 | 242 | 244 | 247 | 243 | 245 | 247 | |
| | Shaft Fan | 212 | 214 | 216 | 257 | 262 | 351 | 355 | 358 | 353 | 356 | 360 | |
| | Electric Fan | 404 | 408 | 412 | 496 | 506 | 653 | 660 | 666 | 657 | 664 | 670 | |
| | DuraPlate | 446 | 451 | 455 | 444 | 453 | 619 | 626 | 632 | 623 | 629 | 636 | |
| 100 | None | 138 | 139 | 141 | 178 | 182 | 231 | 233 | 235 | 237 | 239 | 241 | |
| | Shaft Fan | 202 | 204 | 206 | 261 | 266 | 336 | 340 | 343 | 344 | 348 | 351 | |
| | Electric Fan | 387 | 391 | 395 | 496 | 506 | 630 | 636 | 642 | 644 | 650 | 657 | |
| | DuraPlate | 428 | 432 | 436 | 446 | 454 | 596 | 602 | 608 | 610 | 616 | 622 | |
| 112 | None | 129 | 130 | 131 | 170 | 173 | 234 | 236 | 239 | 226 | 228 | 230 | |
| | Shaft Fan | 187 | 189 | 191 | 249 | 254 | 341 | 345 | 348 | 330 | 333 | 336 | |
| | Electric Fan | 357 | 361 | 364 | 477 | 486 | 645 | 652 | 658 | 620 | 627 | 633 | |
| | DuraPlate | 326 | 329 | 333 | 427 | 436 | 499 | 504 | 509 | 588 | 593 | 599 | |
| 125 | None | 128 | 130 | 131 | 155 | 158 | 227 | 230 | 232 | 228 | 231 | 233 | |
| | Shaft Fan | 186 | 188 | 190 | 226 | 230 | 332 | 335 | 338 | 334 | 337 | 340 | |
| | Electric Fan | 352 | 356 | 359 | 432 | 441 | 628 | 634 | 641 | 634 | 640 | 647 | |
| | DuraPlate | 323 | 326 | 329 | 319 | 326 | 485 | 490 | 495 | 489 | 494 | 499 | |
| 140 | None | 122 | 124 | 125 | 158 | 161 | 216 | 218 | 220 | 222 | 224 | 226 | |
| | Shaft Fan | 178 | 180 | 182 | 229 | 234 | 316 | 319 | 322 | 324 | 327 | 331 | |
| | Electric Fan | 341 | 344 | 348 | 433 | 442 | 602 | 608 | 614 | 617 | 623 | 629 | |
| | DuraPlate | 309 | 312 | 315 | 322 | 328 | 464 | 469 | 474 | 476 | 481 | 485 | |
| 160 | None | | | | 150 | 153 | | | | 211 | 213 | 215 | |
| | Shaft Fan | | | | 219 | 223 | | | | 309 | 312 | 315 | |
| | Electric Fan | | | | 416 | 424 | | | | 592 | 598 | 604 | |
| | DuraPlate | | | | 308 | 314 | | | | 455 | 460 | 465 | |

Type VP & VR Overhung Loads

Low-Speed Shaft

$$\text{Overhung Load (lb)} = \frac{19\,100\,000 \times \text{kW} \times F_C \times L_f}{\text{Pitch Dia (mm)} \times \text{rpm}}$$



- F_C = Load Connection Factor**
- Sprocket ★ 1,00
 - Machined Pinion & Gear ★ 1,25
 - Synchronous (Timing) Belt 1,30
 - V-Belt 1,50
 - Flat Belt 2,50
- L_f = Load Location Factor**
- Low-Speed Shaft – See table below
 - High-Speed Shaft – Refer to Factory

★ Refer all multiple chain sprocket and pinion-mounted applications to the Factory for deflection analysis.

Overhung Loads — Overhung load is imposed upon a shaft when a pinion, sprocket or sheave is used as a power takeoff. The magnitude of the load varies with the type of takeoff and its proximity to the shaft bearing. Calculate the load (including minimum required service factor) and check the result against the tabulated overhung load rating. The above overhung load formula considers the transmitted power rating without service factor. This is appropriate for applications where starting loads, momentary overloads and brake capacities do not exceed 200% of drive rating (100% overload). For other considerations, compute the equivalent power by multiplying the transmitted power by the appropriate service factor.

Locate the center line of the load as close to the drive seal cage as

practical to minimize the overhung load and increase bearing life.

Consult the Factory for Higher Overhung Load Ratings — In many cases, overhung load capacity in excess of that published is available. If the actual load should exceed the published capacity, refer full details to the Factory; provide complete application information, as well as direction of rotation, location, and direction of applied load.

Combined shaft loadings involving simultaneous application of overhung load, thrust load or bending moment should be referred directly to the Factory.

Low-Speed Shaft Overhung Load — Calculate low-speed shaft overhung load using the formula and F_C values at left. The L_f load location factors tabulated below are based on the distance from the center line of the load to the end of the shaft.

Example — A 100 kW, 1200 rpm electric motor, coupling connected to a Falk V-Class Size M175VP2 drive used to drive a uniformly loaded belt conveyor. The drive is a VP2 configuration mounted on its base. The drive's low-speed shaft rotates at 75 rpm and is chain connected to the conveyor on the extension opposite the low-speed gear. The low-speed sprocket has a pitch diameter of 700 mm and center of the teeth on the sprocket are located 80 mm from the end of the shaft. Calculate the overhung load as follows :

$$\text{Overhung Load} = \frac{19\,100\,000 \times 100 \times 1,00 \times 1,17}{700 \times 75} = 42\,566 \text{ N}$$

The allowable overhung load for a M175VP2 drive that is mounted on the base surface with extension opposite the low-speed gear is found on Page 95. The value for the allowable overhung load is found by interpolating for the given output rpm. The allowable overhung load is 84 400 N. The applied overhung load is less than the allowable, therefore, this application is acceptable.

Type VP & VR L_f Load Location Factors† (Millimeters)

Low-Speed Shaft

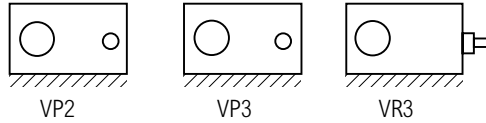
† Based on distance from centerline of load to end of shaft

| Distance (Millimeters) | Single Reduction Drive Size | | | | | | | | | | | | Double & Triple Reduction Drive Size | | | | | | | | | | | | | |
|------------------------|-----------------------------|------|------|------------|------------|------------|------------|------------|------|-------------------|------------|-------------------|--------------------------------------|------|------|------|------------|------------|------------|------------|------------|------|-------------------|------------|-------------------|-------------------|
| | 107 | 117 | 127 | 133 137 | 143 147 | 153 157 | 163 167 | 173 177 | 187 | 193 195 197 | 203 207 | 213 215 217 | 223 225 227 | 107 | 117 | 127 | 133 137 | 143 147 | 153 157 | 163 167 | 173 177 | 187 | 193 195 197 | 203 207 | 213 215 217 | 223 225 227 |
| 0 | 1,37 | 1,37 | 1,39 | 1,38 | 1,36 | 1,45 | 1,44 | 1,48 | 1,48 | 1,48 | 1,48 | 1,49 | 1,49 | 1,37 | 1,37 | 1,38 | 1,44 | 1,44 | 1,41 | 1,40 | 1,45 | 1,45 | 1,48 | 1,48 | 1,49 | 1,49 |
| 10 | 1,31 | 1,31 | 1,34 | 1,34 | 1,32 | 1,41 | 1,40 | 1,44 | 1,44 | 1,45 | 1,45 | 1,46 | 1,46 | 1,30 | 1,31 | 1,33 | 1,39 | 1,39 | 1,36 | 1,36 | 1,42 | 1,42 | 1,45 | 1,45 | 1,46 | 1,46 |
| 20 | 1,25 | 1,26 | 1,29 | 1,30 | 1,28 | 1,36 | 1,36 | 1,41 | 1,41 | 1,42 | 1,42 | 1,43 | 1,43 | 1,24 | 1,26 | 1,27 | 1,34 | 1,34 | 1,32 | 1,32 | 1,38 | 1,38 | 1,42 | 1,42 | 1,43 | 1,43 |
| 30 | 1,19 | 1,21 | 1,24 | 1,26 | 1,24 | 1,32 | 1,32 | 1,37 | 1,37 | 1,39 | 1,39 | 1,40 | 1,40 | 1,17 | 1,21 | 1,22 | 1,29 | 1,29 | 1,27 | 1,28 | 1,35 | 1,35 | 1,39 | 1,39 | 1,40 | 1,40 |
| 40 | 1,13 | 1,16 | 1,20 | 1,21 | 1,20 | 1,27 | 1,28 | 1,33 | 1,33 | 1,36 | 1,36 | 1,38 | 1,38 | 1,10 | 1,16 | 1,16 | 1,24 | 1,24 | 1,23 | 1,24 | 1,31 | 1,31 | 1,36 | 1,36 | 1,38 | 1,38 |
| 50 | 1,07 | 1,10 | 1,15 | 1,17 | 1,16 | 1,23 | 1,24 | 1,29 | 1,29 | 1,33 | 1,33 | 1,35 | 1,35 | 1,03 | 1,10 | 1,11 | 1,19 | 1,20 | 1,18 | 1,20 | 1,27 | 1,27 | 1,33 | 1,33 | 1,35 | 1,35 |
| 60 | 1,01 | 1,05 | 1,10 | 1,13 | 1,12 | 1,18 | 1,20 | 1,25 | 1,25 | 1,30 | 1,30 | 1,32 | 1,32 | 0,98 | 1,05 | 1,05 | 1,15 | 1,15 | 1,14 | 1,16 | 1,24 | 1,24 | 1,30 | 1,30 | 1,32 | 1,32 |
| 70 | 0,98 | 1,00 | 1,05 | 1,09 | 1,08 | 1,14 | 1,16 | 1,21 | 1,21 | 1,27 | 1,27 | 1,30 | 1,30 | 0,95 | 1,00 | 1,00 | 1,10 | 1,10 | 1,09 | 1,12 | 1,20 | 1,20 | 1,27 | 1,27 | 1,30 | 1,30 |
| 80 | 0,95 | 0,97 | 1,00 | 1,04 | 1,04 | 1,09 | 1,12 | 1,18 | 1,18 | 1,24 | 1,24 | 1,27 | 1,27 | 0,92 | 0,97 | 0,98 | 1,05 | 1,05 | 1,05 | 1,08 | 1,17 | 1,17 | 1,24 | 1,24 | 1,27 | 1,27 |
| 90 | 0,92 | 0,95 | 0,98 | 1,00 | 1,00 | 1,05 | 1,08 | 1,14 | 1,14 | 1,21 | 1,21 | 1,24 | 1,24 | 0,89 | 0,95 | 0,95 | 1,00 | 1,00 | 1,00 | 1,04 | 1,13 | 1,13 | 1,21 | 1,21 | 1,24 | 1,24 |
| 100 | 0,89 | 0,92 | 0,96 | 0,98 | 0,98 | 1,00 | 1,04 | 1,10 | 1,10 | 1,18 | 1,18 | 1,22 | 1,22 | 0,86 | 0,92 | 0,93 | 0,98 | 0,98 | 0,98 | 1,00 | 1,09 | 1,09 | 1,18 | 1,18 | 1,22 | 1,22 |
| 110 | 0,87 | 0,89 | 0,94 | 0,96 | 0,96 | 0,98 | 1,00 | 1,06 | 1,06 | 1,15 | 1,15 | 1,19 | 1,19 | 0,83 | 0,89 | 0,91 | 0,96 | 0,96 | 0,96 | 0,98 | 1,06 | 1,06 | 1,15 | 1,15 | 1,19 | 1,19 |
| 120 | 0,84 | 0,87 | 0,92 | 0,94 | 0,94 | 0,96 | 0,99 | 1,02 | 1,02 | 1,12 | 1,12 | 1,16 | 1,16 | 0,80 | 0,87 | 0,88 | 0,93 | 0,94 | 0,94 | 0,97 | 1,02 | 1,02 | 1,12 | 1,12 | 1,16 | 1,16 |
| 130 | 0,81 | 0,84 | 0,90 | 0,92 | 0,92 | 0,95 | 0,97 | 0,99 | 0,99 | 1,09 | 1,09 | 1,13 | 1,13 | 0,77 | 0,84 | 0,86 | 0,91 | 0,92 | 0,92 | 0,95 | 0,99 | 0,99 | 1,09 | 1,09 | 1,13 | 1,13 |
| 140 | 0,78 | 0,82 | 0,88 | 0,90 | 0,90 | 0,93 | 0,95 | 0,98 | 0,98 | 1,06 | 1,06 | 1,11 | 1,11 | | 0,82 | 0,83 | 0,89 | 0,89 | 0,90 | 0,93 | 0,98 | 0,98 | 1,06 | 1,06 | 1,11 | 1,11 |
| 150 | 0,75 | 0,79 | 0,86 | 0,88 | 0,88 | 0,88 | 0,91 | 0,94 | 0,96 | 1,03 | 1,03 | 1,08 | 1,08 | | 0,79 | 0,81 | 0,87 | 0,87 | 0,88 | 0,92 | 0,96 | 0,96 | 1,03 | 1,03 | 1,08 | 1,08 |
| 160 | | 0,84 | 0,86 | 0,86 | 0,86 | 0,89 | 0,92 | 0,95 | 0,95 | 1,00 | 1,00 | 1,05 | 1,05 | | | 0,85 | 0,85 | 0,86 | 0,86 | 0,90 | 0,95 | 0,95 | 1,00 | 1,00 | 1,05 | 1,05 |
| 170 | | 0,82 | 0,84 | 0,84 | 0,84 | 0,87 | 0,90 | 0,93 | 0,93 | 0,99 | 0,99 | 1,03 | 1,03 | | | 0,83 | 0,83 | 0,84 | 0,88 | 0,93 | 0,93 | 0,99 | 0,99 | 1,03 | 1,03 | |
| 180 | | 0,80 | 0,82 | 0,82 | 0,82 | 0,85 | 0,89 | 0,92 | 0,92 | 0,98 | 0,98 | 1,00 | 1,00 | | | 0,80 | 0,81 | 0,82 | 0,86 | 0,92 | 0,92 | 0,98 | 0,98 | 1,00 | 1,00 | |
| 190 | | 0,80 | 0,80 | 0,84 | 0,87 | 0,90 | 0,90 | 0,90 | 0,97 | 0,97 | 0,99 | 0,99 | 0,99 | | | | 0,85 | 0,85 | 0,85 | 0,85 | 0,90 | 0,97 | 0,97 | 0,99 | 0,99 | |
| 200 | | 0,77 | 0,78 | 0,82 | 0,86 | 0,89 | 0,89 | 0,89 | 0,96 | 0,96 | 0,98 | 0,98 | 0,98 | | | | 0,83 | 0,88 | 0,88 | 0,88 | 0,96 | 0,96 | 0,98 | 0,98 | 0,98 | |
| 210 | | 0,75 | 0,76 | 0,80 | 0,84 | 0,87 | 0,87 | 0,87 | 0,95 | 0,95 | 0,97 | 0,97 | 0,97 | | | | 0,81 | 0,87 | 0,87 | 0,95 | 0,95 | 0,97 | 0,97 | 0,97 | 0,97 | |
| 220 | | 0,73 | 0,74 | 0,78 | 0,82 | 0,86 | 0,86 | 0,86 | 0,94 | 0,94 | 0,96 | 0,96 | 0,96 | | | | | 0,85 | 0,85 | 0,85 | 0,94 | 0,94 | 0,96 | 0,96 | 0,96 | |
| 230 | | | | | 0,81 | 0,84 | 0,84 | 0,92 | 0,92 | 0,95 | 0,95 | 0,95 | 0,95 | | | | | | | 0,84 | 0,84 | 0,92 | 0,92 | 0,95 | 0,95 | |
| 240 | | | | | 0,79 | 0,83 | 0,83 | 0,91 | 0,91 | 0,94 | 0,94 | 0,94 | 0,94 | | | | | | | 0,82 | 0,82 | 0,91 | 0,91 | 0,94 | 0,94 | |
| 250 | | | | | 0,77 | 0,81 | 0,81 | 0,90 | 0,90 | 0,93 | 0,93 | 0,93 | 0,93 | | | | | | | 0,81 | 0,81 | 0,90 | 0,90 | 0,93 | 0,93 | |
| 260 | | | | | | 0,80 | 0,80 | 0,89 | 0,89 | 0,92 | 0,92 | 0,92 | 0,92 | | | | | | | 0,79 | 0,79 | 0,89 | 0,89 | 0,92 | 0,92 | |
| 270 | | | | | | 0,78 | 0,78 | 0,88 | 0,88 | 0,92 | 0,92 | 0,92 | 0,92 | | | | | | | 0,79 | 0,79 | 0,88 | 0,88 | 0,92 | 0,92 | |
| 280 | | | | | | | | 0,87 | 0,87 | 0,91 | 0,91 | 0,91 | 0,91 | | | | | | | | 0,87 | 0,87 | 0,91 | 0,91 | 0,91 | |
| 290 | | | | | | | | 0,86 | 0,86 | 0,90 | 0,90 | 0,90 | 0,90 | | | | | | | | | 0,86 | 0,86 | 0,90 | 0,90 | |
| 300 | | | | | | | | 0,85 | 0,85 | 0,89 | 0,89 | 0,89 | 0,89 | | | | | | | | | 0,85 | 0,85 | 0,89 | 0,89 | |
| 310 | | | | | | | | 0,84 | 0,84 | 0,88 | 0,88 | 0,88 | 0,88 | | | | | | | | | 0,84 | 0,84 | 0,88 | 0,88 | |
| 320 | | | | | | | | 0,83 | 0,83 | 0,87 | 0,87 | 0,87 | 0,87 | | | | | | | | | 0,83 | 0,83 | 0,87 | 0,87 | |
| 330 | | | | | | | | 0,82 | 0,82 | 0,86 | 0,86 | 0,86 | 0,86 | | | | | | | | | 0,82 | 0,82 | 0,86 | 0,86 | |
| 340 | | | | | | | | 0,81 | 0,81 | 0,85 | 0,85 | 0,85 | 0,85 | | | | | | | | | 0,81 | 0,81 | 0,85 | 0,85 | |
| 350 | | | | | | | | | | 0,84 | 0,84 | 0,84 | 0,84 | | | | | | | | | | | 0,84 | 0,84 | |
| 360 | | | | | | | | | | 0,83 | 0,83 | 0,83 | 0,83 | | | | | | | | | | | 0,83 | 0,83 | |
| 370 | | | | | | | | | | 0,82 | 0,82 | 0,82 | 0,82 | | | | | | | | | | | 0,82 | 0,82 | |
| 380 | | | | | | | | | | 0,81 | 0,81 | 0,81 | 0,81 | | | | | | | | | | | 0,81 | 0,81 | |
| 390 | | | | | | | | | | 0,80 | 0,80 | 0,80 | 0,80 | | | | | | | | | | | 0,80 | 0,80 | |
| 400 | | | | | | | | | | 0,79 | 0,79 | 0,79 | 0,79 | | | | | | | | | | | 0,79 | 0,79 | |

Type VPC Double & Triple and VRC Triple Reduction — Sizes 133-187

Low-Speed Shaft Overhung Load •/kN

Refer to Low-Speed Gear Position on Pages 14-15 & 88



| Output rpm | 107 | | 117 | | 127 | | 133 137 | | 143 145 147 | | 153 155 157 | | 163 165 167 | |
|------------|-----------------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|----------------------------------|
| | Extension Opposite Low-Speed Gear | Extension On Low-Speed Gear Side | Extension Opposite Low-Speed Gear | Extension On Low-Speed Gear Side | Extension Opposite Low-Speed Gear | Extension On Low-Speed Gear Side | Extension Opposite Low-Speed Gear | Extension On Low-Speed Gear Side | Extension Opposite Low-Speed Gear | Extension On Low-Speed Gear Side | Extension Opposite Low-Speed Gear | Extension On Low-Speed Gear Side | Extension Opposite Low-Speed Gear | Extension On Low-Speed Gear Side |
| 290 | 26,0 | 18,1 | 51,7 | 42,8 | 50,7 | 36,6 | 54,1 | 36,0 | 60,6 | 36,2 | 77,9 | 47,1 | 101,2 | 71,9 |
| 250 | 27,4 | 19,3 | 54,4 | 45,4 | 53,6 | 39,2 | 57,3 | 38,7 | 64,3 | 39,3 | 82,7 | 51,1 | 107,5 | 77,3 |
| 210 | 27,6 | 20,7 | 57,8 | 48,6 | 57,3 | 42,4 | 61,3 | 42,2 | 68,9 | 43,2 | 88,8 | 56,1 | 115,3 | 84,3 |
| 170 | 27,6 | 22,6 | 62,1 | 52,8 | 57,8 | 46,8 | 66,5 | 46,9 | 75,0 | 48,4 | 96,7 | 62,9 | 125,6 | 93,6 |
| 130 | 27,6 | 25,3 | 62,7 | 58,6 | 57,8 | 52,9 | 73,8 | 53,6 | 83,6 | 56,0 | 107,8 | 72,7 | 139,9 | 106,8 |
| 90 | 27,6 | 27,6 | 62,7 | 62,7 | 57,8 | 57,8 | 85,1 | 64,4 | 91,6 | 68,3 | 125,1 | 88,8 | 162,2 | 128,1 |
| 50 | 27,6 | 27,6 | 62,7 | 62,7 | 57,8 | 57,8 | 97,9 | 86,3 | 91,6 | 91,6 | 143,7 | 122,0 | 205,6 | 171,3 |
| 10 | 27,6 | 27,6 | 62,7 | 62,7 | 57,8 | 57,8 | 97,9 | 97,9 | 91,6 | 91,6 | 143,7 | 143,7 | 226,9 | 226,9 |

| Output rpm | 173 175 177 | | 187 | | 193 195 197 | | 203 207 | | 213 215 217 | | 223 225 227 | |
|------------|-----------------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|----------------------------------|
| | Extension Opposite Low-Speed Gear | Extension On Low-Speed Gear Side | Extension Opposite Low-Speed Gear | Extension On Low-Speed Gear Side | Extension Opposite Low-Speed Gear | Extension On Low-Speed Gear Side | Extension Opposite Low-Speed Gear | Extension On Low-Speed Gear Side | Extension Opposite Low-Speed Gear | Extension On Low-Speed Gear Side | Extension Opposite Low-Speed Gear | Extension On Low-Speed Gear Side |
| 290 | 143,9 | 111,4 | 161,2 | 115,7 | 238,6 | 162,7 | 237,1 | 162,0 | 255,4 | 142,2 | 257,8 | 147,8 |
| 250 | 152,1 | 119,3 | 170,3 | 123,8 | 255,6 | 177,0 | 253,8 | 176,2 | 275,8 | 158,2 | 277,9 | 163,7 |
| 210 | 162,2 | 129,4 | 181,6 | 134,1 | 277,1 | 195,5 | 275,1 | 194,3 | 301,8 | 179,3 | 303,6 | 184,5 |
| 170 | 175,5 | 142,7 | 196,2 | 147,6 | 305,5 | 220,6 | 303,2 | 218,9 | 336,6 | 208,6 | 337,9 | 213,3 |
| 130 | 193,8 | 161,6 | 216,6 | 166,8 | 345,9 | 257,0 | 343,0 | 254,6 | 386,7 | 252,9 | 387,2 | 256,4 |
| 90 | 222,1 | 191,7 | 220,0 | 197,3 | 410,0 | 317,0 | 406,3 | 313,2 | 467,6 | 329,2 | 466,5 | 330,1 |
| 50 | 231,3 | 231,3 | 220,2 | 220,2 | 517,4 | 443,3 | 532,7 | 436,1 | 633,6 | 501,8 | 628,5 | 494,2 |
| 10 | 231,3 | 231,3 | 220,2 | 220,2 | 517,4 | 517,4 | 572,3 | 572,3 | 744,5 | 546,6 | 848,7 | 657,8 |

● Overhung load values shown are for loads applied at midpoint of extension key length. Published overhung load ratings are based on a combination of the most unfavorable conditions of loading. Consult the Factory for application-specific review if additional capacity is required. Interpolate for values at intermediate speeds. The last overhung load listed applies to all lower output speeds for that drive size and mounting surface.

Type VPC Single Reduction & VRC Double Reduction

Low-Speed Shaft Overhung Load

REFER TO THE FACTORY

High-Speed Shaft Overhung Load — All Reductions

REFER TO THE FACTORY

Exact Ratios/Parallel Shaft Drives

Type VP

| Nominal Ratios | UNIT SIZE | | | | | | | | | | | | | | | | | |
|-------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 107VP | 117VP | 127VP | 133VP | 137VP | 143VP | 145VP | 147VP | 155VP3 | 155VP | 157VP | 163VP | 165VP | 167VP | 173VP | 175VP | 177VP | 187VP |
| SINGLE REDUCTION | | | | | | | | | | | | | | | | | | |
| 1,25 | 1,255 | 1,250 | 1,250 | 1,273 | 1,273 | 1,270 | 1,270 | 1,270 | 1,275 | 1,275 | 1,275 | 1,256 | 1,256 | 1,256 | 1,256 | 1,256 | 1,256 | 1,275 |
| 1,40 | 1,396 | 1,415 | 1,405 | 1,419 | 1,419 | 1,400 | 1,400 | 1,400 | 1,417 | 1,417 | 1,417 | 1,378 | 1,378 | 1,378 | 1,425 | 1,425 | 1,425 | 1,421 |
| 1,60 | 1,614 | 1,605 | 1,618 | 1,586 | 1,586 | 1,625 | 1,625 | 1,625 | 1,578 | 1,578 | 1,578 | 1,588 | 1,588 | 1,588 | 1,622 | 1,622 | 1,622 | 1,600 |
| 1,80 | 1,805 | 1,829 | 1,781 | 1,778 | 1,778 | 1,800 | 1,800 | 1,800 | 1,829 | 1,829 | 1,829 | 1,781 | 1,781 | 1,781 | 1,771 | 1,771 | 1,771 | 1,788 |
| 2,00 | 2,026 | 2,000 | 1,967 | 2,040 | 2,040 | 1,962 | 1,962 | 1,962 | 2,029 | 2,029 | 2,029 | 2,034 | 2,034 | 2,034 | 2,031 | 2,031 | 2,031 | 2,033 |
| 2,24 | 2,222 | 2,226 | 2,214 | 2,240 | 2,240 | 2,208 | 2,208 | 2,208 | 2,212 | 2,212 | 2,212 | 2,259 | 2,259 | 2,259 | 2,233 | 2,233 | 2,233 | 2,250 |
| 2,50 | 2,515 | 2,536 | 2,462 | 2,522 | 2,522 | 2,542 | 2,542 | 2,542 | 2,533 | 2,533 | 2,533 | 2,520 | 2,520 | 2,520 | 2,464 | 2,464 | 2,464 | 2,538 |
| 2,80 | 2,833 | 2,808 | 2,750 | 2,750 | 2,750 | 2,850 | 2,850 | 2,850 | 2,786 | 2,786 | 2,786 | 2,826 | 2,826 | 2,826 | 2,769 | 2,769 | 2,769 | 2,792 |
| 3,15 | 3,107 | 3,125 | 3,091 | 3,167 | 3,167 | 3,105 | 3,105 | 3,105 | 3,115 | 3,115 | 3,115 | 3,190 | 3,190 | 3,190 | 3,125 | 3,125 | 3,125 | 3,182 |
| 3,55 | 3,600 | 3,500 | 3,500 | 3,500 | 3,500 | 3,529 | 3,529 | 3,529 | 3,609 | 3,609 | 3,609 | 3,579 | 3,579 | 3,579 | 3,722 | 3,722 | 3,722 | 3,600 |
| 4,00 | 4,059 | 3,944 | 4,063 | 4,063 | 4,063 | 3,941 | 3,941 | 3,941 | 3,941 | 3,941 | 3,941 | 4,059 | 4,059 | 4,059 | 4,118 | 4,118 | 4,118 | 4,056 |
| 4,50 | 4,438 | 4,500 | 4,563 | 4,563 | 4,563 | 4,412 | 4,412 | 4,412 | 4,563 | 4,563 | 4,563 | 4,471 | 4,471 | 4,471 | 4,706 | 4,706 | 4,706 | 4,412 |
| 5,00 | 4,941 | 5,063 | 4,933 | 4,933 | 4,933 | 5,067 | 5,067 | 5,067 | 4,933 | 4,933 | 4,933 | 4,944 | 4,944 | 4,944 | 5,059 | 5,059 | 5,059 | 5,059 |
| DOUBLE REDUCTION | | | | | | | | | | | | | | | | | | |
| 5,00 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 5,234 | 5,234 | 5,234 | --- |
| 5,60 | 5,738 | 5,441 | 5,603 | 5,781 | 5,781 | 5,489 | 5,489 | 5,489 | 5,547 | 5,547 | 5,547 | 5,598 | 5,598 | 5,598 | 5,790 | 5,790 | 5,790 | 5,703 |
| 6,30 | 6,274 | 6,207 | 6,293 | 6,493 | 6,493 | 6,145 | 6,145 | 6,145 | 6,421 | 6,421 | 6,421 | 6,166 | 6,166 | 6,166 | 6,618 | 6,618 | 6,618 | 6,204 |
| 7,10 | 6,986 | 6,983 | 6,805 | 7,021 | 7,021 | 7,057 | 7,057 | 7,057 | 6,943 | 6,943 | 6,943 | 6,820 | 6,820 | 6,820 | 7,593 | 7,593 | 7,593 | 7,114 |
| 8,00 | 8,274 | 8,041 | 8,281 | 8,125 | 8,125 | 7,725 | 7,725 | 7,725 | 8,040 | 8,040 | 8,040 | 7,955 | 7,955 | 7,955 | 8,400 | 8,400 | 8,400 | 8,273 |
| 9,00 | 9,046 | 9,173 | 9,300 | 9,125 | 9,125 | 8,647 | 8,647 | 8,647 | 9,308 | 9,308 | 9,308 | 8,762 | 8,762 | 8,762 | 9,600 | 9,600 | 9,600 | 9,000 |
| 10,0 | 10,07 | 10,32 | 10,06 | 9,867 | 9,867 | 9,931 | 9,931 | 9,931 | 10,06 | 10,06 | 10,06 | 9,69 | 9,69 | 9,69 | 10,38 | 10,38 | 10,38 | 10,32 |
| 11,2 | 11,32 | 11,18 | 11,51 | 11,33 | 11,33 | 11,20 | 11,20 | 11,20 | 11,13 | 11,13 | 11,13 | 11,50 | 11,50 | 11,50 | 11,49 | 11,49 | 11,49 | 11,31 |
| 12,5 | 12,38 | 12,75 | 12,93 | 12,73 | 12,73 | 12,54 | 12,54 | 12,54 | 12,88 | 12,88 | 12,88 | 12,67 | 12,67 | 12,67 | 13,13 | 13,13 | 13,13 | 12,31 |
| 14,0 | 13,78 | 14,34 | 13,98 | 13,76 | 13,76 | 14,40 | 14,40 | 14,40 | 13,93 | 13,93 | 13,93 | 14,01 | 14,01 | 14,01 | 14,67 | 14,67 | 14,67 | 14,11 |
| 16,0 | 15,98 | 16,02 | 16,00 | 16,00 | 16,00 | 15,50 | 15,50 | 15,50 | 16,00 | 16,00 | 16,00 | 16,49 | 16,49 | 16,49 | 16,23 | 16,23 | 16,23 | 15,98 |
| 18,0 | 17,47 | 18,28 | 17,96 | 17,96 | 17,96 | 17,35 | 17,35 | 17,35 | 18,52 | 18,52 | 18,52 | 18,16 | 18,16 | 18,16 | 18,55 | 18,55 | 18,55 | 17,39 |
| 20,0 | 19,46 | 20,57 | 19,43 | 19,43 | 19,43 | 19,93 | 19,93 | 19,93 | 20,02 | 20,02 | 20,02 | 20,09 | 20,09 | 20,09 | 20,58 | 20,58 | 20,58 | 19,94 |
| 22,4 | 22,58 | 22,75 | 22,46 | 22,60 | 22,60 | 22,17 | 22,17 | 22,17 | 21,92 | 21,92 | 21,92 | 23,00 | 23,00 | 23,00 | 22,77 | 22,77 | 22,77 | 22,42 |
| 25,0 | 24,68 | 24,88 | 25,23 | 25,38 | 25,38 | 24,82 | 24,82 | 24,82 | 25,38 | 25,38 | 25,38 | 25,33 | 25,33 | 25,33 | 26,02 | 26,02 | 26,02 | 24,39 |
| 28,0 | 27,49 | 27,99 | 27,28 | 27,44 | 27,44 | 28,50 | 28,50 | 28,50 | 27,44 | 27,44 | 27,44 | 28,02 | 28,02 | 28,02 | --- | --- | --- | 27,97 |
| TRIPLE REDUCTION | | | | | | | | | | | | | | | | | | |
| 28,0 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 29,51 | 29,51 | 29,51 | --- |
| 31,5 | 32,27 | 30,87 | 32,71 | 31,48 | 31,48 | 31,74 | 31,74 | 31,74 | 31,53 | 31,53 | 31,53 | 32,08 | 32,08 | 32,08 | 32,64 | 32,64 | 32,64 | 32,15 |
| 35,5 | 35,28 | 35,21 | 36,74 | 35,35 | 35,35 | 35,53 | 35,53 | 35,53 | 36,50 | 36,50 | 36,50 | 35,33 | 35,33 | 35,33 | 37,31 | 37,31 | 37,31 | 34,98 |
| 40,0 | 39,28 | 39,62 | 39,73 | 38,23 | 38,23 | 40,80 | 40,80 | 40,80 | 39,47 | 39,47 | 39,47 | 39,08 | 39,08 | 39,08 | 41,69 | 41,69 | 41,69 | 40,11 |
| 45,0 | 45,55 | 44,26 | 45,46 | 44,43 | 44,43 | 43,92 | 43,92 | 43,92 | 45,32 | 45,32 | 45,32 | 46,00 | 46,00 | 46,00 | 46,12 | 46,12 | 46,12 | 45,43 |
| 50,0 | 49,80 | 50,49 | 51,06 | 49,90 | 49,90 | 49,17 | 49,17 | 49,17 | 52,47 | 52,47 | 52,47 | 50,66 | 50,66 | 50,66 | 52,71 | 52,71 | 52,71 | 49,42 |
| 56,0 | 55,45 | 56,80 | 55,21 | 53,96 | 53,96 | 56,46 | 56,46 | 56,46 | 56,73 | 56,73 | 56,73 | 56,03 | 56,03 | 56,03 | 57,70 | 57,70 | 57,70 | 56,67 |
| 63,0 | 64,99 | 65,04 | 63,04 | 64,98 | 64,98 | 62,98 | 62,98 | 62,98 | 62,99 | 62,99 | 62,99 | 64,92 | 64,92 | 64,92 | 63,83 | 63,83 | 63,83 | 62,87 |
| 71,0 | 71,06 | 74,20 | 70,80 | 72,98 | 72,98 | 70,50 | 70,50 | 70,50 | 72,92 | 72,92 | 72,92 | 71,51 | 71,51 | 71,51 | 72,95 | 72,95 | 72,95 | 68,39 |
| 80,0 | 79,12 | 83,48 | 76,56 | 78,91 | 78,91 | 80,96 | 80,96 | 80,96 | 78,84 | 78,84 | 78,84 | 79,09 | 79,09 | 79,09 | 80,95 | 80,95 | 80,95 | 78,42 |
| 90,0 | 91,81 | 92,34 | 90,97 | 93,91 | 93,91 | 90,06 | 90,06 | 90,06 | 86,32 | 86,32 | 86,32 | 90,56 | 90,56 | 90,56 | 89,55 | 89,55 | 89,55 | 88,20 |
| 100 | 100,4 | 101,0 | 99,43 | 103,1 | 103,1 | 100,8 | 100,8 | 100,8 | 99,93 | 99,93 | 99,93 | 99,75 | 99,75 | 99,75 | 102,3 | 102,3 | 102,3 | 96,0 |
| 112 | 111,8 | 113,6 | 107,5 | 111,5 | 111,5 | 115,8 | 115,8 | 115,8 | 108,1 | 108,1 | 108,1 | 110,3 | 110,3 | 110,3 | 115,8 | 115,8 | 115,8 | 110,0 |
| 125 | 124,2 | 127,8 | 128,4 | 128,8 | 128,8 | 121,9 | 121,9 | 121,9 | 121,2 | 121,2 | 121,2 | 127,9 | 127,9 | 127,9 | 128,1 | 128,1 | 128,1 | 126,1 |
| 140 | 135,8 | 139,7 | 140,3 | 141,4 | 141,4 | 136,5 | 136,5 | 136,5 | 140,3 | 140,3 | 140,3 | 140,9 | 140,9 | 140,9 | 146,4 | 146,4 | 146,4 | 137,2 |
| 160 | 151,2 | 157,2 | 151,7 | 152,9 | 152,9 | 156,8 | 156,8 | 156,8 | 151,7 | 151,7 | 151,7 | 155,9 | 155,9 | 155,9 | --- | --- | --- | 157,3 |

Exact Ratios/Parallel Shaft Drives

Type VP

| Nominal Ratios | UNIT SIZE | | | | | | | | | | |
|-------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 193VP | 195VP | 197VP | 203VP | 207VP | 213VP | 215VP | 217VP | 223VP | 225VP | 227VP |
| SINGLE REDUCTION | | | | | | | | | | | |
| 1,25 | 1,256 | 1,256 | 1,256 | 1,237 | 1,237 | 1,231 | 1,231 | 1,231 | 1,262 | 1,262 | 1,262 |
| 1,40 | 1,378 | 1,378 | 1,378 | 1,389 | 1,389 | 1,417 | 1,417 | 1,417 | 1,375 | 1,375 | 1,375 |
| 1,60 | 1,588 | 1,588 | 1,588 | 1,606 | 1,606 | 1,606 | 1,606 | 1,606 | 1,595 | 1,595 | 1,595 |
| 1,80 | 1,781 | 1,781 | 1,781 | 1,774 | 1,774 | 1,806 | 1,806 | 1,806 | 1,794 | 1,794 | 1,794 |
| 2,00 | 2,034 | 2,034 | 2,034 | 1,966 | 1,966 | 1,966 | 1,966 | 1,966 | 1,969 | 1,969 | 1,969 |
| 2,24 | 2,259 | 2,259 | 2,259 | 2,222 | 2,222 | 2,222 | 2,222 | 2,222 | 2,276 | 2,276 | 2,276 |
| 2,50 | 2,520 | 2,520 | 2,520 | 2,480 | 2,480 | 2,480 | 2,480 | 2,480 | 2,519 | 2,519 | 2,519 |
| 2,80 | 2,826 | 2,826 | 2,826 | 2,783 | 2,783 | 2,783 | 2,783 | 2,783 | 2,800 | 2,800 | 2,800 |
| 3,15 | 3,190 | 3,190 | 3,190 | 3,095 | 3,095 | 3,143 | 3,143 | 3,143 | 3,130 | 3,130 | 3,130 |
| 3,55 | 3,647 | 3,647 | 3,647 | 3,526 | 3,526 | 3,526 | 3,526 | 3,526 | 3,524 | 3,524 | 3,524 |
| 4,00 | 4,118 | 4,118 | 4,118 | 4,059 | 4,059 | 4,059 | 4,059 | 4,059 | 3,947 | 3,947 | 3,947 |
| 4,50 | 4,500 | 4,500 | 4,500 | 4,529 | 4,529 | 4,438 | 4,438 | 4,438 | 4,529 | 4,529 | 4,529 |
| 5,00 | 5,063 | 5,063 | 5,063 | 4,938 | 4,938 | 5,059 | 5,059 | 5,059 | 4,938 | 4,938 | 4,938 |
| DOUBLE REDUCTION | | | | | | | | | | | |
| 5,00 | 5,084 | 5,084 | 5,084 | --- | --- | 4,891 | 4,891 | 4,891 | --- | --- | --- |
| 5,60 | 5,740 | 5,740 | 5,740 | 5,658 | 5,658 | 5,630 | 5,630 | 5,630 | 5,475 | 5,475 | 5,475 |
| 6,30 | 6,273 | 6,273 | 6,273 | 6,314 | 6,314 | 6,155 | 6,155 | 6,155 | 6,283 | 6,283 | 6,283 |
| 7,10 | 7,434 | 7,434 | 7,434 | 6,883 | 6,883 | 6,912 | 6,912 | 6,912 | 6,849 | 6,849 | 6,849 |
| 8,00 | 8,394 | 8,394 | 8,394 | 8,274 | 8,274 | 7,955 | 7,955 | 7,955 | 7,737 | 7,737 | 7,737 |
| 9,00 | 9,173 | 9,173 | 9,173 | 9,233 | 9,233 | 8,698 | 8,698 | 8,698 | 8,878 | 8,878 | 8,878 |
| 10,0 | 10,07 | 10,07 | 10,07 | 10,06 | 10,06 | 9,697 | 9,697 | 9,697 | 9,678 | 9,678 | 9,678 |
| 11,2 | 11,37 | 11,37 | 11,37 | 11,21 | 11,21 | 11,16 | 11,16 | 11,16 | 10,86 | 10,86 | 10,86 |
| 12,5 | 12,43 | 12,43 | 12,43 | 12,51 | 12,51 | 12,20 | 12,20 | 12,20 | 12,46 | 12,46 | 12,46 |
| 14,0 | 14,37 | 14,37 | 14,37 | 13,64 | 13,64 | 14,33 | 14,33 | 14,33 | 13,58 | 13,58 | 13,58 |
| 16,0 | 16,23 | 16,23 | 16,23 | 16,00 | 16,00 | 16,49 | 16,49 | 16,49 | 16,04 | 16,04 | 16,04 |
| 18,0 | 17,74 | 17,74 | 17,74 | 17,85 | 17,85 | 18,03 | 18,03 | 18,03 | 18,40 | 18,40 | 18,40 |
| 20,0 | 20,29 | 20,29 | 20,29 | 19,46 | 19,46 | 20,55 | 20,55 | 20,55 | 20,06 | 20,06 | 20,06 |
| 22,4 | 22,90 | 22,90 | 22,90 | 22,58 | 22,58 | 22,32 | 22,32 | 22,32 | 22,93 | 22,93 | 22,93 |
| 25,0 | 25,03 | 25,03 | 25,03 | 25,19 | 25,19 | 24,41 | 24,41 | 24,41 | 24,91 | 24,91 | 24,91 |
| 28,0 | --- | --- | --- | 27,46 | 27,46 | --- | --- | --- | 27,16 | 27,16 | 27,16 |
| TRIPLE REDUCTION | | | | | | | | | | | |
| 28,0 | 28,44 | 28,44 | 28,44 | --- | --- | 27,48 | 27,48 | 27,48 | --- | --- | --- |
| 31,5 | 32,11 | 32,11 | 32,11 | 31,65 | 31,65 | 31,62 | 31,62 | 31,62 | 30,76 | 30,76 | 30,76 |
| 35,5 | 35,09 | 35,09 | 35,09 | 35,32 | 35,32 | 34,58 | 34,58 | 34,58 | 35,29 | 35,29 | 35,29 |
| 40,0 | 40,58 | 40,58 | 40,58 | 38,50 | 38,50 | 40,59 | 40,59 | 40,59 | 38,47 | 38,47 | 38,47 |
| 45,0 | 45,82 | 45,82 | 45,82 | 45,17 | 45,17 | 46,72 | 46,72 | 46,72 | 45,44 | 45,44 | 45,44 |
| 50,0 | 50,08 | 50,08 | 50,08 | 50,40 | 50,40 | 51,08 | 51,08 | 51,08 | 52,14 | 52,14 | 52,14 |
| 56,0 | 58,34 | 58,34 | 58,34 | 54,94 | 54,94 | 58,20 | 58,20 | 58,20 | 56,83 | 56,83 | 56,83 |
| 63,0 | 65,87 | 65,87 | 65,87 | 64,93 | 64,93 | 66,99 | 66,99 | 66,99 | 65,15 | 65,15 | 65,15 |
| 71,0 | 71,98 | 71,98 | 71,98 | 72,45 | 72,45 | 73,24 | 73,24 | 73,24 | 74,75 | 74,75 | 74,75 |
| 80,0 | 82,34 | 82,34 | 82,34 | 78,98 | 78,98 | 83,47 | 83,47 | 83,47 | 81,49 | 81,49 | 81,49 |
| 90,0 | 92,96 | 92,96 | 92,96 | 91,64 | 91,64 | 90,69 | 90,69 | 90,69 | 93,15 | 93,15 | 93,15 |
| 100 | 101,6 | 101,6 | 101,6 | 102,3 | 102,3 | 99,15 | 99,15 | 99,15 | 101,2 | 101,2 | 101,2 |
| 112 | 112,8 | 112,8 | 112,8 | 111,5 | 111,5 | 116,4 | 116,4 | 116,4 | 110,3 | 110,3 | 110,3 |
| 125 | 127,4 | 127,4 | 127,4 | 125,6 | 125,6 | 126,5 | 126,5 | 126,5 | 129,9 | 129,9 | 129,9 |
| 140 | 139,2 | 139,2 | 139,2 | 140,1 | 140,1 | 138,3 | 138,3 | 138,3 | 141,2 | 141,2 | 141,2 |
| 160 | --- | --- | --- | 152,8 | 152,8 | --- | --- | --- | 153,9 | 153,9 | 153,9 |

Tolerance Limits/Dimensions — Millimeters

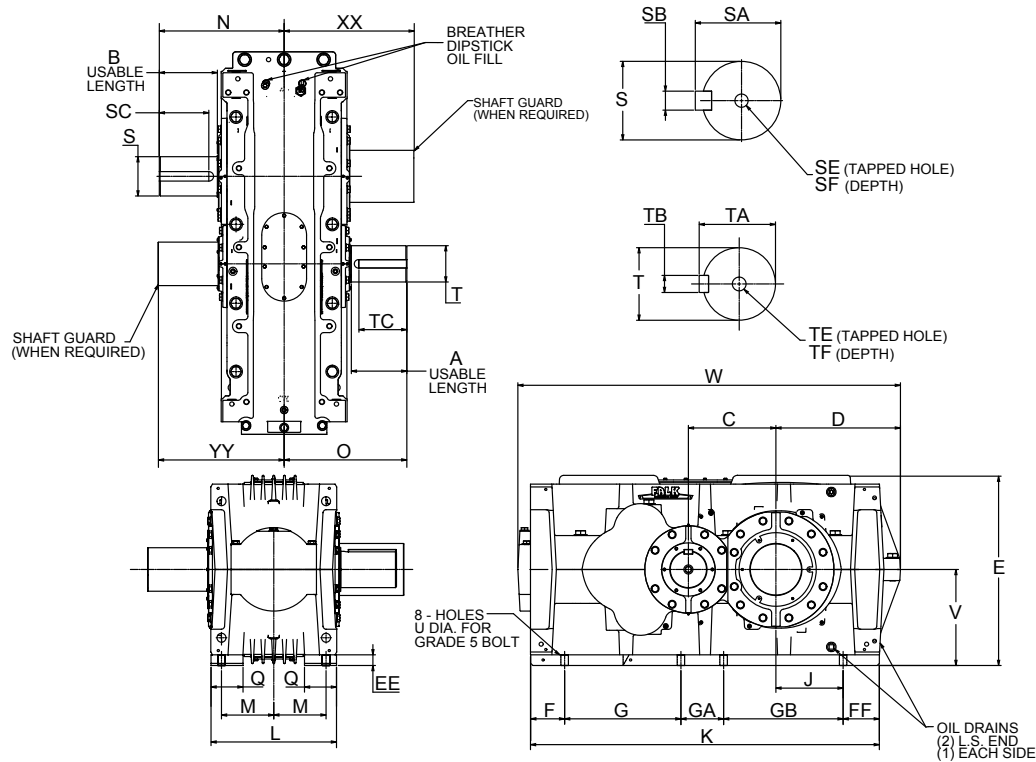
Table 1

| | Shaft Tolerance | | | | | | | | | | Bore Tolerance | | | |
|-------|-----------------|------|-----|-----|------|------|------|-------|----|----|----------------|----|-----|------|
| | Diameter | c11 | g6 | h6 | h9 | h10 | h11 | j6 | k6 | m6 | D10 | H7 | J7 | N9 |
| | mm | µm | µm | µm | µm | µm | µm | µm | µm | µm | µm | µm | µm | µm |
| from | 18 | -110 | -7 | 0 | 0 | 0 | 0 | 6,5 | 15 | 21 | 149 | 21 | 12 | 0 |
| to | 30 | -240 | -20 | -13 | -52 | -84 | -130 | -6,5 | 2 | 8 | 65 | 0 | -9 | -52 |
| above | 30 | -120 | -9 | 0 | 0 | 0 | 0 | 8 | 18 | 25 | 180 | 25 | 14 | 0 |
| to | 40 | -280 | -25 | -16 | -62 | -100 | -160 | -8 | 2 | 9 | 80 | 0 | -11 | -62 |
| above | 40 | -130 | -9 | 0 | 0 | 0 | 0 | 8 | 18 | 25 | 180 | 25 | 14 | 0 |
| to | 50 | -290 | -25 | -16 | -62 | -100 | -160 | -8 | 2 | 9 | 80 | 0 | -11 | -62 |
| above | 50 | -140 | -10 | 0 | 0 | 0 | 0 | 9,5 | 21 | 30 | 220 | 30 | 18 | 0 |
| to | 65 | -330 | -29 | -19 | -74 | -120 | -190 | -9,5 | 2 | 11 | 100 | 0 | -12 | -74 |
| above | 65 | -150 | -10 | 0 | 0 | 0 | 0 | 9,5 | 21 | 30 | 220 | 30 | 18 | 0 |
| to | 80 | -340 | -29 | -19 | -74 | -120 | -190 | -9,5 | 2 | 11 | 100 | 0 | -12 | -74 |
| above | 80 | -170 | -12 | 0 | 0 | 0 | 0 | 11 | 25 | 36 | 260 | 35 | 22 | 0 |
| to | 100 | -390 | -34 | -22 | -87 | -140 | -220 | -11 | 3 | 13 | 120 | 0 | -13 | -87 |
| above | 100 | -180 | -12 | 0 | 0 | 0 | 0 | 11 | 25 | 36 | 260 | 35 | 22 | 0 |
| to | 120 | -400 | -34 | -22 | -87 | -140 | -220 | -11 | 3 | 13 | 120 | 0 | -13 | -87 |
| above | 120 | -200 | -14 | 0 | 0 | 0 | 0 | 12,5 | 28 | 40 | 305 | 40 | 26 | 0 |
| to | 140 | -450 | -39 | -25 | -100 | -160 | -250 | -12,5 | 3 | 15 | 145 | 0 | -14 | -100 |
| above | 140 | -210 | -14 | 0 | 0 | 0 | 0 | 12,5 | 28 | 40 | 305 | 40 | 26 | 0 |
| to | 160 | -460 | -39 | -25 | -100 | -160 | -250 | -12,5 | 3 | 15 | 145 | 0 | -14 | -100 |
| above | 160 | -230 | -14 | 0 | 0 | 0 | 0 | 12,5 | 28 | 40 | 305 | 40 | 26 | 0 |
| to | 180 | -480 | -39 | -25 | -100 | -160 | -250 | -12,5 | 3 | 15 | 145 | 0 | -14 | -100 |
| above | 180 | -240 | -15 | 0 | 0 | 0 | 0 | 14,5 | 33 | 46 | 355 | 46 | 30 | 0 |
| to | 200 | -530 | -44 | -29 | -115 | -185 | -290 | -14,5 | 4 | 17 | 170 | 0 | -16 | -115 |
| above | 200 | -260 | -15 | 0 | 0 | 0 | 0 | 14,5 | 33 | 46 | 355 | 46 | 30 | 0 |
| to | 225 | -560 | -44 | -29 | -115 | -185 | -290 | -14,5 | 4 | 17 | 170 | 0 | -16 | -115 |
| above | 225 | -280 | -15 | 0 | 0 | 0 | 0 | 14,5 | 33 | 46 | 355 | 46 | 30 | 0 |
| to | 250 | -570 | -44 | -29 | -115 | -185 | -290 | -14,5 | 4 | 17 | 170 | 0 | -16 | -115 |
| above | 250 | -300 | -17 | 0 | 0 | 0 | 0 | 16 | 36 | 52 | 400 | 52 | 36 | 0 |
| to | 280 | -620 | -69 | -32 | -130 | -210 | -320 | -16 | 4 | 20 | 190 | 0 | -16 | -130 |
| above | 280 | -330 | -17 | 0 | 0 | 0 | 0 | 16 | 36 | 52 | 400 | 52 | 36 | 0 |
| to | 315 | -650 | -69 | -32 | -130 | -210 | -320 | -16 | 4 | 20 | 190 | 0 | -16 | -130 |
| above | 315 | -360 | -18 | 0 | 0 | 0 | 0 | 18 | 40 | 57 | 440 | 57 | 39 | 0 |
| to | 355 | -720 | -75 | -36 | -140 | -230 | -360 | -18 | 4 | 21 | 210 | 0 | -18 | -140 |

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Type VPC1 Single Reduction Solid Low-Speed Shaft, Base Drive

Sizes 133 – 173/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | B | C | D | E | EE | F | FF | G | GA | GB | J | K | L | M | N* | O | Q |
|-------------|-----------|-----|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|-----|-------|
| 133 | 1,25-5,00 | 195 | 220 | 260 | 332 | 552 | 35 | 123,4 | 117,3 | 297,5 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 452 | 433 | 112,7 |
| 143 | 1,25-5,00 | 195 | 220 | 290 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 460 | 436 | 108,0 |
| 153 | 1,25-5,00 | 190 | 220 | 335 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 114,0 | 485 | 460 | 114,0 |
| 163 | 1,25-5,00 | 235 | 255 | 370 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 545 | 528 | 124,0 |
| 173 | 1,25-5,00 | 260 | 270 | 410 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 585 | 575 | 150,0 |

| DRIVE SIZE★ | Ratios | Low-Speed Shaft† | | | | | | | High-Speed Shaft† | | | | | | U | V | W | XX | YY | Approx. Wt. kg. |
|-------------|-----------|------------------|-------|----|-----|-----|----|-------|-------------------|-----|-----|-----|----|----|-----|------|-----|-----|------|-----------------|
| | | S* | SA | SB | SC | SE | SF | T* | TA | TB | TC | TE | TF | | | | | | | |
| 133 | 1,25-3,55 | 130m6 | 136,8 | 32 | 180 | M24 | 50 | 100m6 | 105,8 | 28 | 180 | M24 | 50 | 24 | 280 | 1082 | 460 | 443 | 841 | |
| | 80m6 | | | | | | | 84,8 | 22 | M20 | | 42 | | | | | | | | |
| 143 | 1,25-3,55 | 140m6 | 147,8 | 36 | 180 | M30 | 60 | 110m6 | 115,8 | 28 | 180 | M24 | 50 | 24 | 315 | 1203 | 472 | 448 | 1125 | |
| | 90m6 | | | | | | | 94,8 | 22 | | | | | | | | | | | |
| 153 | 1,25-3,15 | 150m6 | 157,8 | 36 | 200 | M30 | 60 | 130m6 | 136,8 | 32 | 180 | M24 | 50 | 28 | 335 | 1334 | 499 | 476 | 1438 | |
| | 105m6 | | | | | | | 110,8 | 28 | | | | | | | | | | | |
| 163 | 1,25-4,00 | 180m6 | 189,8 | 45 | 220 | M30 | 60 | 140m6 | 147,8 | 36 | 220 | M30 | 60 | 35 | 375 | 1510 | 563 | 557 | 2097 | |
| | 100m6 | | | | | | | 105,8 | 28 | M24 | | 50 | | | | | | | | |
| 173 | 1,25-3,15 | 195m6 | 204,8 | 45 | 250 | M30 | 60 | 170m6 | 178,8 | 40 | 225 | M30 | 60 | 35 | 450 | 1793 | 612 | 591 | 3074 | |
| | 120m6 | | | | | | | 126,8 | 32 | M24 | | 50 | | | | | | | | |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

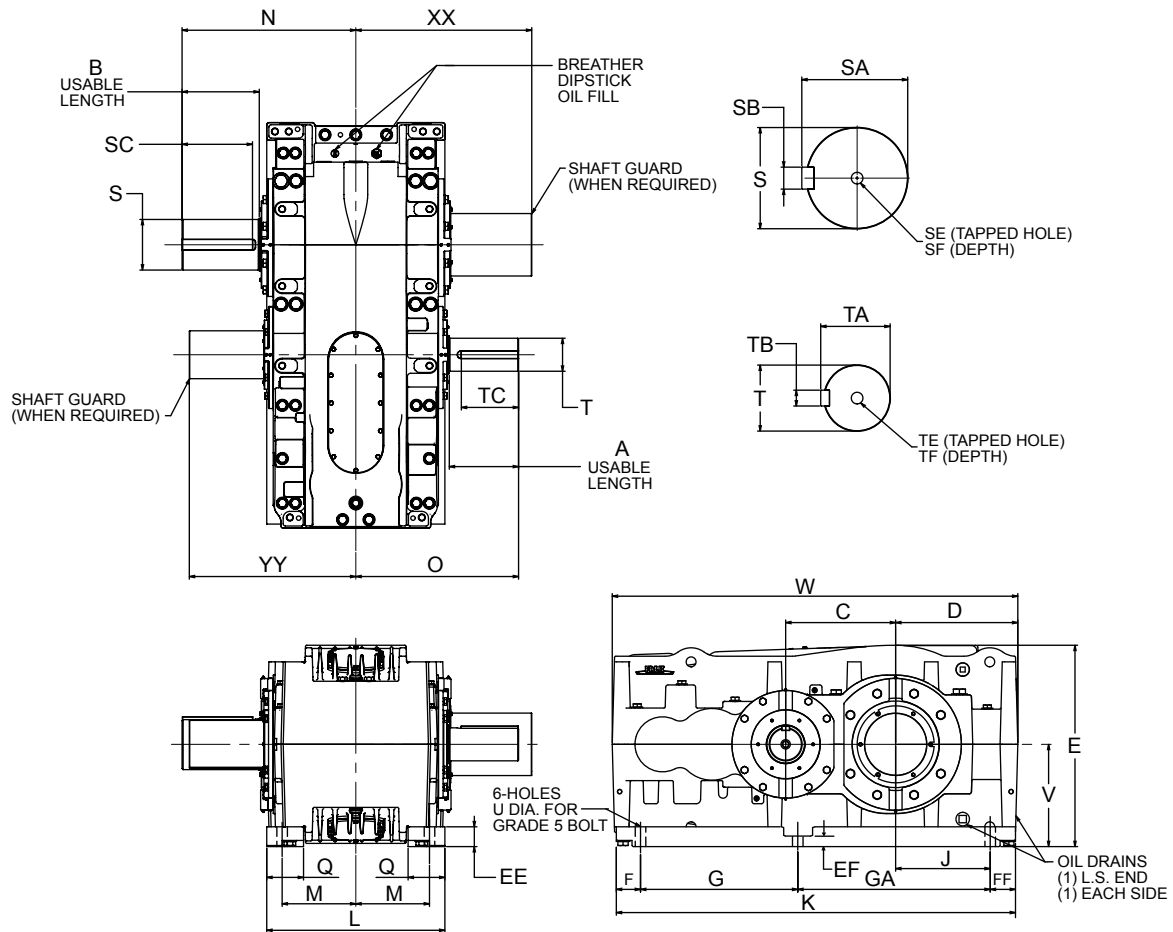
† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

● Single low-speed shaft extension is standard; double extension is special.

Type VPC1 Single Reduction Solid Low-Speed Shaft, Base Drive

Sizes 193 – 223/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | B | C | D | E | EE | EF | F | FF | G | GA | J | K | L | M | N* | O | Q |
|-------------|-----------|-----|-----|-----|-----|------|-----|----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-------|
| 193 | 1,25-5,00 | 300 | 350 | 460 | 596 | 916 | 90 | 55 | 109 | 115 | 715 | 875 | 470 | 1814 | 810 | 335 | 790 | 740 | 167,3 |
| 203 | 1,25-5,00 | 300 | 350 | 500 | 556 | 916 | 90 | 55 | 109 | 115 | 715 | 875 | 430 | 1814 | 810 | 335 | 790 | 740 | 167,3 |
| 213 | 1,25-5,00 | 350 | 410 | 540 | 700 | 1084 | 115 | 75 | 134 | 157 | 830 | 1005 | 530 | 2126 | 900 | 375 | 895 | 845 | 172,8 |
| 223 | 1,25-5,00 | 350 | 410 | 590 | 650 | 1084 | 115 | 75 | 134 | 157 | 830 | 1005 | 480 | 2126 | 900 | 375 | 895 | 845 | 172,8 |

| DRIVE SIZE★ | Ratios | Low-Speed Shaft† | | | | | | | High-Speed Shaft† | | | | | | U | V | W | XX | YY | Approx. Wt. kg. | |
|-------------|-----------|------------------|-------|----|-----|-----|----|-------|-------------------|----|-----|-----|----|----|-----|------|-----|-----|------|-----------------|--|
| | | S* | SA | SB | SC | SE | SF | T* | TA | TB | TC | TE | TF | | | | | | | | |
| 193 | 1,25-3,55 | | | | | | | 180m6 | 189,8 | 45 | | | | | | | | | | | |
| | 4,00-5,00 | 230m6 | 240,8 | 50 | 320 | M30 | 60 | 150m6 | 157,8 | 36 | 260 | M30 | 60 | 48 | 465 | 1844 | 800 | 757 | 4164 | | |
| 203 | 1,25-3,55 | | | | | | | 180m6 | 189,8 | 45 | | | | | | | | | | | |
| | 4,00-5,00 | 230m6 | 240,8 | 50 | 320 | M30 | 60 | 150m6 | 157,8 | 36 | 260 | M30 | 60 | 48 | 465 | 1844 | 800 | 757 | 4322 | | |
| 213 | 1,25-3,15 | | | | | | | 205m6 | 215,8 | 50 | | | | | | | | | | | |
| | 3,55-5,00 | 270m6 | 281,8 | 63 | 360 | M30 | 60 | 180m6 | 189,8 | 45 | 310 | M30 | 60 | 55 | 550 | 2179 | 907 | 856 | 6364 | | |
| 223 | 1,25-3,15 | | | | | | | 205m6 | 215,8 | 50 | | | | | | | | | | | |
| | 3,55-5,00 | 270m6 | 281,8 | 63 | 360 | M30 | 60 | 180m6 | 189,8 | 45 | 310 | M30 | 60 | 55 | 550 | 2179 | 907 | 856 | 6636 | | |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

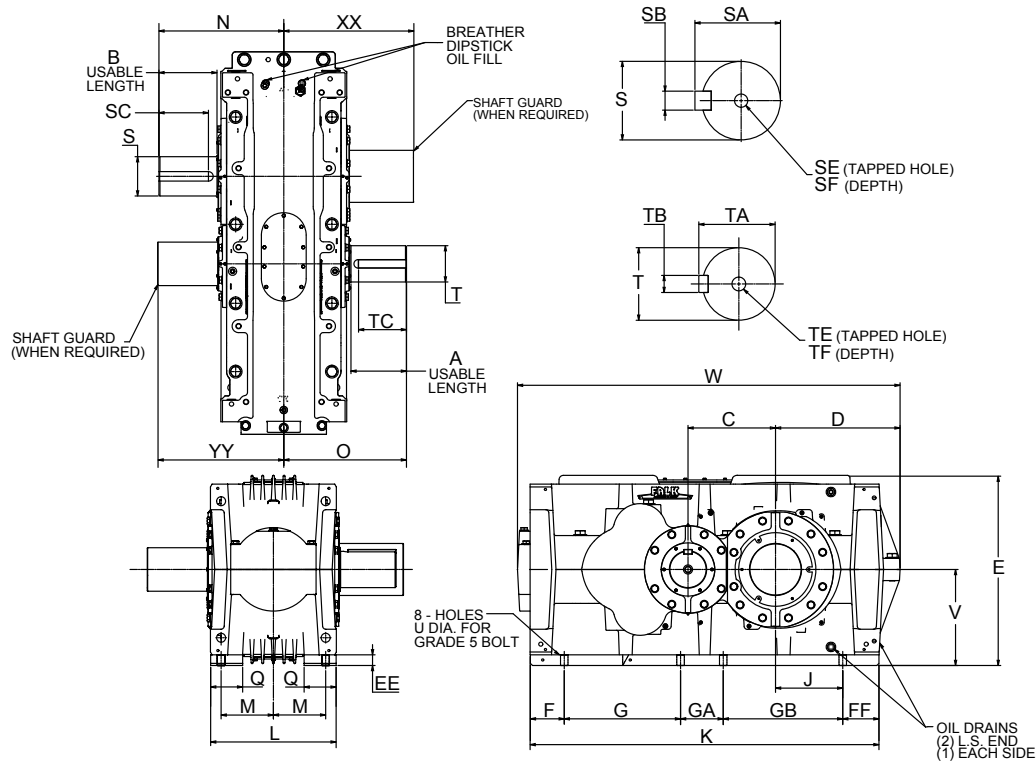
† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

● Single low-speed shaft extension is standard; double extension is special.

Type VPC1 Single Reduction Solid Low-Speed Shaft, Base Drive

Sizes 145 – 175/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | B | C | D | E | EE | F | FF | G | GA | GB | J | K | L | M | N• | O | Q |
|-------------|-----------|-----|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|-----|-------|
| 145 | 1,25-5,00 | 195 | 220 | 290 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 460 | 436 | 108,0 |
| | 4,00-5,00 | 190 | 220 | 335 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 114,0 | 485 | 460 | 114,0 |
| 165 | 1,25-5,00 | 235 | 255 | 370 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 545 | 528 | 124,0 |
| 175 | 1,25-5,00 | 260 | 270 | 410 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 585 | 575 | 150,0 |

| DRIVE SIZE★ | Ratios | Low-Speed Shaft† | | | | | | | High-Speed Shaft† | | | | | | U | V | W | XX | YY | Approx. Wt. kg. |
|-------------|-----------|------------------|-------|----|-----|-----|----|-------|-------------------|-----|-----|-----|----|----|-----|------|-----|-----|------|-----------------|
| | | S* | SA | SB | SC | SE | SF | T* | TA | TB | TC | TE | TF | | | | | | | |
| 145 | 1,25-3,55 | 140m6 | 147,8 | 36 | 180 | M30 | 60 | 110m6 | 115,8 | 28 | 180 | M24 | 50 | 24 | 315 | 1203 | 472 | 448 | 1125 | |
| | 90m6 | | | | | | | 94,8 | 22 | | | | | | | | | | | |
| 155 | 1,25-3,15 | 150m6 | 157,8 | 36 | 200 | M30 | 60 | 130m6 | 136,8 | 32 | 180 | M24 | 50 | 28 | 335 | 1334 | 499 | 476 | 1438 | |
| | 105m6 | | | | | | | 110,8 | 28 | | | | | | | | | | | |
| 165 | 1,25-4,00 | 180m6 | 189,8 | 45 | 220 | M30 | 60 | 140m6 | 147,8 | 36 | 220 | M30 | 60 | 35 | 375 | 1510 | 563 | 557 | 2097 | |
| | 100m6 | | | | | | | 105,8 | 28 | M24 | | 50 | | | | | | | | |
| 175 | 1,25-3,15 | 195m6 | 204,8 | 45 | 250 | M30 | 60 | 170m6 | 178,8 | 40 | 225 | M30 | 60 | 35 | 450 | 1793 | 612 | 591 | 3074 | |
| | 120m6 | | | | | | | 126,8 | 32 | M24 | | 50 | | | | | | | | |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

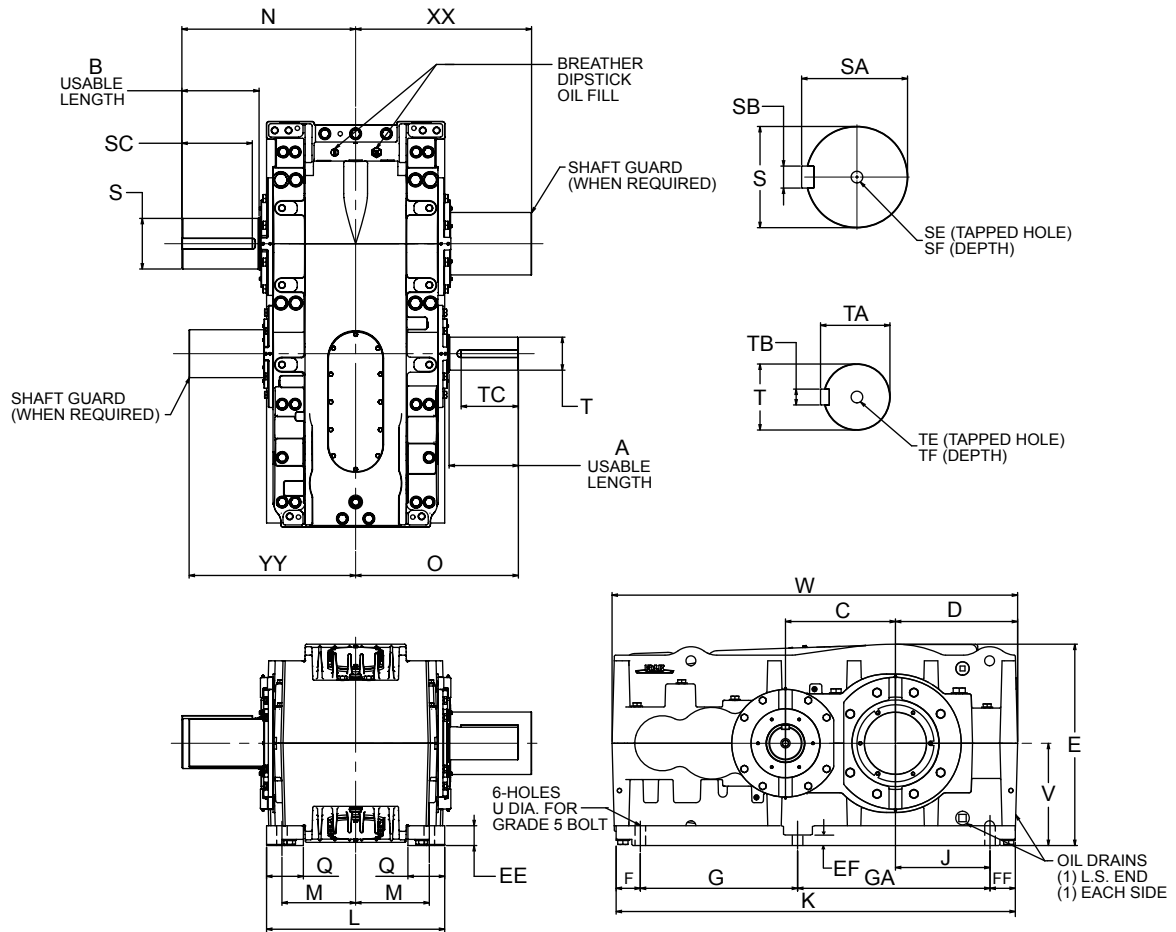
† Key Sizes per ISO/R73-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

● Single low-speed shaft extension is standard; double extension is special.

Type VPC1 Single Reduction Solid Low-Speed Shaft, Base Drive

Sizes 195 – 225/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | B | C | D | E | EE | EF | F | FF | G | GA | J | K | L | M | N• | O | Q |
|-------------|-----------|-----|-----|-----|-----|------|-----|----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-------|
| 195 | 1,25-5,00 | 300 | 350 | 460 | 596 | 916 | 90 | 55 | 109 | 115 | 715 | 875 | 470 | 1814 | 810 | 335 | 790 | 740 | 167,3 |
| 215 | 1,25-5,00 | 350 | 410 | 540 | 700 | 1084 | 115 | 75 | 134 | 157 | 830 | 1005 | 530 | 2126 | 900 | 375 | 895 | 845 | 172,8 |
| 225 | 1,25-5,00 | 350 | 410 | 590 | 650 | 1084 | 115 | 75 | 134 | 157 | 830 | 1005 | 480 | 2126 | 900 | 375 | 895 | 845 | 172,8 |

| DRIVE SIZE★ | Ratios | Low-Speed Shaft† | | | | | | High-Speed Shaft† | | | | | | U | V | W | XX | YY | Approx. Wt. kg. |
|-------------|-----------|------------------|-------|----|-----|-----|----|-------------------|-------|----|-----|-----|----|----|-----|------|-----|-----|-----------------|
| | | S* | SA | SB | SC | SE | SF | T* | TA | TB | TC | TE | TF | | | | | | |
| 195 | 1,25-3,55 | 230m6 | 240,8 | 50 | 320 | M30 | 60 | 180m6 | 189,8 | 45 | 260 | M30 | 60 | 48 | 465 | 1844 | 800 | 757 | 4164 |
| | 150m6 | | | | | | | 157,8 | 36 | | | | | | | | | | |
| 215 | 1,25-3,15 | 270m6 | 281,8 | 63 | 360 | M30 | 60 | 205m6 | 215,8 | 50 | 310 | M30 | 60 | 55 | 550 | 2179 | 907 | 856 | 6364 |
| | 180m6 | | | | | | | 189,8 | 45 | | | | | | | | | | |
| 225 | 1,25-3,15 | 270m6 | 281,8 | 63 | 360 | M30 | 60 | 205m6 | 215,8 | 50 | 310 | M30 | 60 | 55 | 550 | 2179 | 907 | 856 | 6636 |
| | 180m6 | | | | | | | 189,8 | 45 | | | | | | | | | | |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

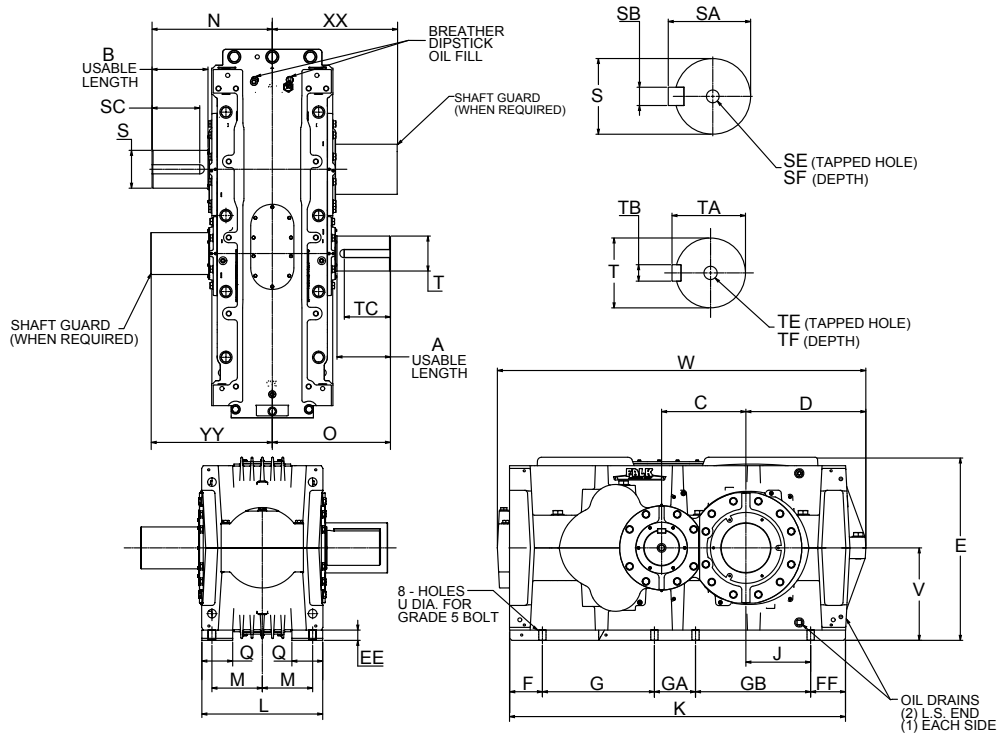
† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

● Single low-speed shaft extension is standard; double extension is special.

Type VPC1 Single Reduction Solid Low-Speed Shaft, Base Drive

Sizes 107 – 187/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | B | C | D | E | EE | F | FF | G | GA | GB | J | K | L | M | N* | O | Q |
|-------------|-----------|-----|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|-----|-------|
| 107 | 1,25-5,00 | 125 | 150 | 185 | 261 | 419 | 25 | 111,0 | 111,0 | 200,0 | 100 | 200,0 | 100 | 722,0 | 322 | 125,0 | 325 | 305 | 78,0 |
| 117 | 1,25-5,00 | 125 | 155 | 210 | 286 | 464 | 25 | 115,0 | 115,0 | 230,0 | 120 | 230,0 | 120 | 810,0 | 364 | 150,0 | 355 | 330 | 92,0 |
| 127 | 1,25-5,00 | 160 | 180 | 235 | 305 | 522 | 25 | 120,0 | 105,0 | 270,0 | 150 | 253,0 | 144 | 898,0 | 410 | 165,0 | 398 | 375 | 101,6 |
| 137 | 1,25-5,00 | 195 | 220 | 260 | 332 | 552 | 35 | 123,4 | 117,3 | 297,5 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 452 | 433 | 112,7 |
| 147 | 1,25-5,00 | 195 | 220 | 290 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 460 | 436 | 108,0 |
| 157 | 1,25-5,00 | 190 | 220 | 335 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 114,0 | 485 | 460 | 114,0 |
| 167 | 1,25-5,00 | 235 | 255 | 370 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 545 | 528 | 124,0 |
| 177 | 1,25-5,00 | 260 | 270 | 410 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 585 | 575 | 150,0 |
| 187 | 1,25-5,00 | 260 | 270 | 435 | 559 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 290 | 1633,5 | 588 | 245,0 | 585 | 575 | 150,0 |

| DRIVE SIZE★ | Ratios | Low-Speed Shaft† | | | | | | | High-Speed Shaft† | | | | | | U | V | W | XX | YY | Approx. Wt. kg. |
|-------------|-----------|------------------|-------|----|-----|-----|----|-------|-------------------|-----|-----|-----|----|----|-----|------|-----|-----|------|-----------------|
| | | S* | SA | SB | SC | SE | SF | T* | TA | TB | TC | TE | TF | | | | | | | |
| 107 | 1,25-3,55 | 100m6 | 105,9 | 28 | 125 | M24 | 50 | 60m6 | 63,9 | 18 | 110 | M20 | 42 | 15 | 212 | 817 | 334 | 313 | 333 | |
| | 48k6 | | | | | | | 51,4 | 14 | M16 | | 36 | | | | | | | | |
| 117 | 1,25-3,55 | 110m6 | 115,9 | 28 | 140 | M24 | 50 | 70m6 | 74,4 | 20 | 110 | M20 | 42 | 19 | 236 | 917 | 365 | 338 | 466 | |
| | 55m6 | | | | | | | 58,9 | 16 | | | | | | | | | | | |
| 127 | 1,25-3,55 | 105m6 | 110,9 | 28 | 160 | M24 | 50 | 85m6 | 89,9 | 22 | 140 | M20 | 42 | 19 | 265 | 987 | 409 | 383 | 633 | |
| | 75m6 | | | | | | | 79,4 | 20 | | | | | | | | | | | |
| 137 | 1,25-3,55 | 130m6 | 136,8 | 32 | 180 | M24 | 50 | 100m6 | 105,8 | 28 | 180 | M24 | 50 | 24 | 280 | 1082 | 460 | 442 | 841 | |
| | 80m6 | | | | | | | 84,8 | 22 | M20 | | 42 | | | | | | | | |
| 147 | 1,25-3,55 | 140m6 | 147,8 | 36 | 180 | M30 | 60 | 110m6 | 115,8 | 28 | 180 | M24 | 50 | 24 | 315 | 1203 | 472 | 448 | 1125 | |
| | 90m6 | | | | | | | 94,8 | 22 | | | | | | | | | | | |
| 157 | 1,25-3,15 | 150m6 | 157,8 | 36 | 200 | M30 | 60 | 130m6 | 136,8 | 32 | 180 | M24 | 50 | 28 | 335 | 1334 | 499 | 476 | 1438 | |
| | 105m6 | | | | | | | 110,8 | 28 | | | | | | | | | | | |
| 167 | 1,25-4,00 | 180m6 | 189,8 | 45 | 220 | M30 | 60 | 140m6 | 147,8 | 36 | 220 | M30 | 60 | 35 | 375 | 1510 | 563 | 557 | 2097 | |
| | 100m6 | | | | | | | 105,8 | 28 | M24 | | 50 | | | | | | | | |
| 177 | 1,25-3,15 | 195m6 | 204,8 | 45 | 250 | M30 | 60 | 170m6 | 178,8 | 40 | 225 | M30 | 60 | 35 | 450 | 1793 | 612 | 591 | 3074 | |
| | 120m6 | | | | | | | 126,8 | 32 | M24 | | 50 | | | | | | | | |
| 187 | 1,25-3,15 | 195m6 | 204,8 | 45 | 250 | M30 | 60 | 170m6 | 178,8 | 40 | 225 | M30 | 60 | 35 | 450 | 1793 | 612 | 591 | 3175 | |
| | 120m6 | | | | | | | 126,8 | 32 | M24 | | 50 | | | | | | | | |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

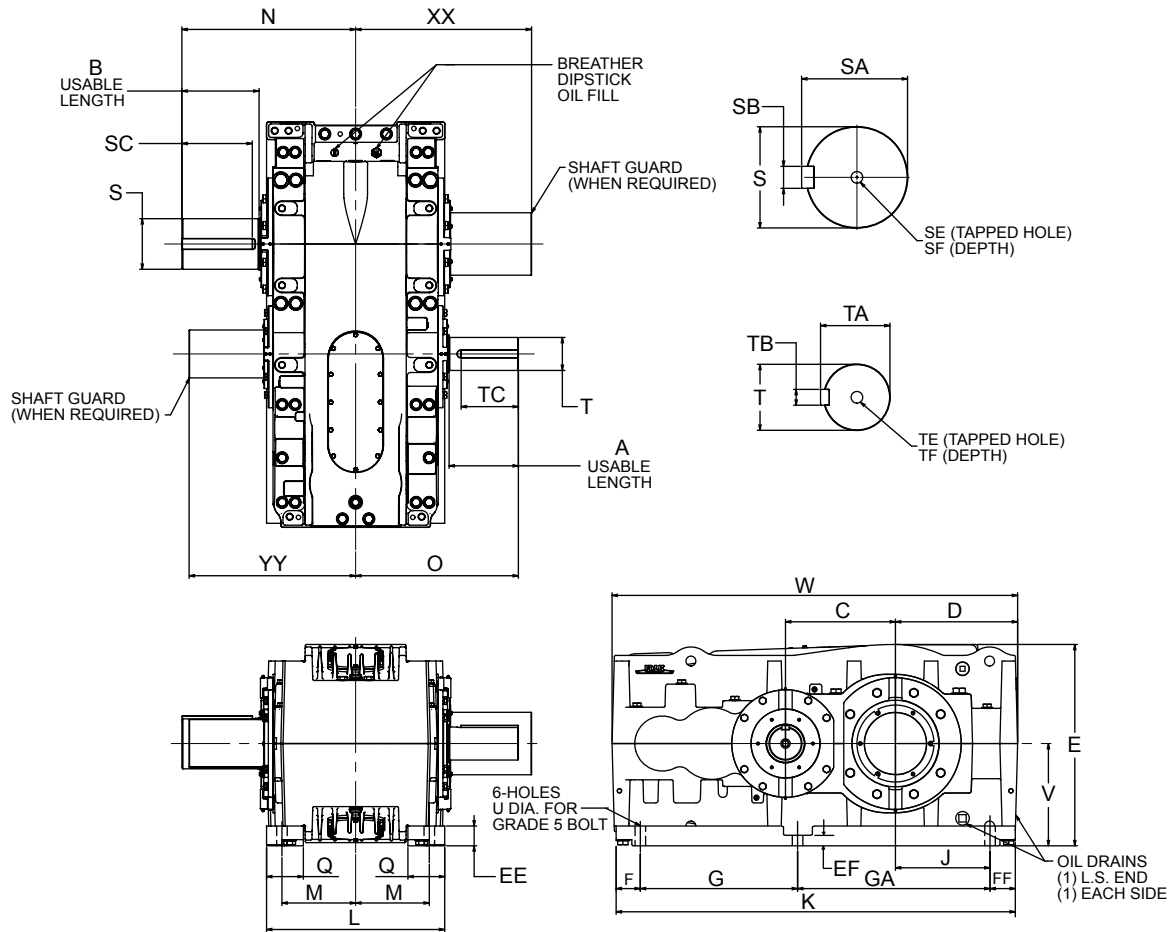
† Key Sizes per ISO/R73-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

● Single low-speed shaft extension is standard; double extension is special.

Type VPC1 Single Reduction Solid Low-Speed Shaft, Base Drive

Sizes 197 – 227/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | B | C | D | E | EE | EF | F | FF | G | GA | J | K | L | M | N* | O | Q |
|-------------|-----------|-----|-----|-----|-----|------|-----|----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-------|
| 197 | 1,25-5,00 | 300 | 350 | 460 | 596 | 916 | 90 | 55 | 109 | 115 | 715 | 875 | 470 | 1814 | 810 | 335 | 790 | 740 | 167,3 |
| 207 | 1,25-5,00 | 300 | 350 | 500 | 556 | 916 | 90 | 55 | 109 | 115 | 715 | 875 | 430 | 1814 | 810 | 335 | 790 | 740 | 167,3 |
| 217 | 1,25-5,00 | 350 | 410 | 540 | 700 | 1084 | 115 | 75 | 134 | 157 | 830 | 1005 | 530 | 2126 | 900 | 375 | 895 | 845 | 172,8 |
| 227 | 1,25-5,00 | 350 | 410 | 590 | 650 | 1084 | 115 | 75 | 134 | 157 | 830 | 1005 | 480 | 2126 | 900 | 375 | 895 | 845 | 172,8 |

| DRIVE SIZE★ | Ratios | Low-Speed Shaft† | | | | | | High-Speed Shaft† | | | | | | U | V | W | XX | YY | Approx. Wt. kg. | |
|-------------|-----------|------------------|-------|----|-----|-----|----|-------------------|-------|----|-----|-----|----|----|-----|------|-----|-----|-----------------|--|
| | | S* | SA | SB | SC | SE | SF | T* | TA | TB | TC | TE | TF | | | | | | | |
| 197 | 1,25-3,55 | | | | | | | 180m6 | 189,8 | 45 | | | | | | | | | | |
| | 4,00-5,00 | 230m6 | 240,8 | 50 | 320 | M30 | 60 | 150m6 | 157,8 | 36 | 260 | M30 | 60 | 48 | 465 | 1844 | 800 | 757 | 4164 | |
| 207 | 1,25-3,55 | | | | | | | 180m6 | 189,8 | 45 | | | | | | | | | | |
| | 4,00-5,00 | 230m6 | 240,8 | 50 | 320 | M30 | 60 | 150m6 | 157,8 | 36 | 260 | M30 | 60 | 48 | 465 | 1844 | 800 | 757 | 4322 | |
| 217 | 1,25-3,15 | | | | | | | 205m6 | 215,8 | 50 | | | | | | | | | | |
| | 3,55-5,00 | 270m6 | 281,8 | 63 | 360 | M30 | 60 | 180m6 | 189,8 | 45 | 310 | M30 | 60 | 55 | 550 | 2179 | 907 | 856 | 6364 | |
| 227 | 1,25-3,15 | | | | | | | 205m6 | 215,8 | 50 | | | | | | | | | | |
| | 3,55-5,00 | 270m6 | 281,8 | 63 | 360 | M30 | 60 | 180m6 | 189,8 | 45 | 310 | M30 | 60 | 55 | 550 | 2179 | 907 | 856 | 6636 | |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

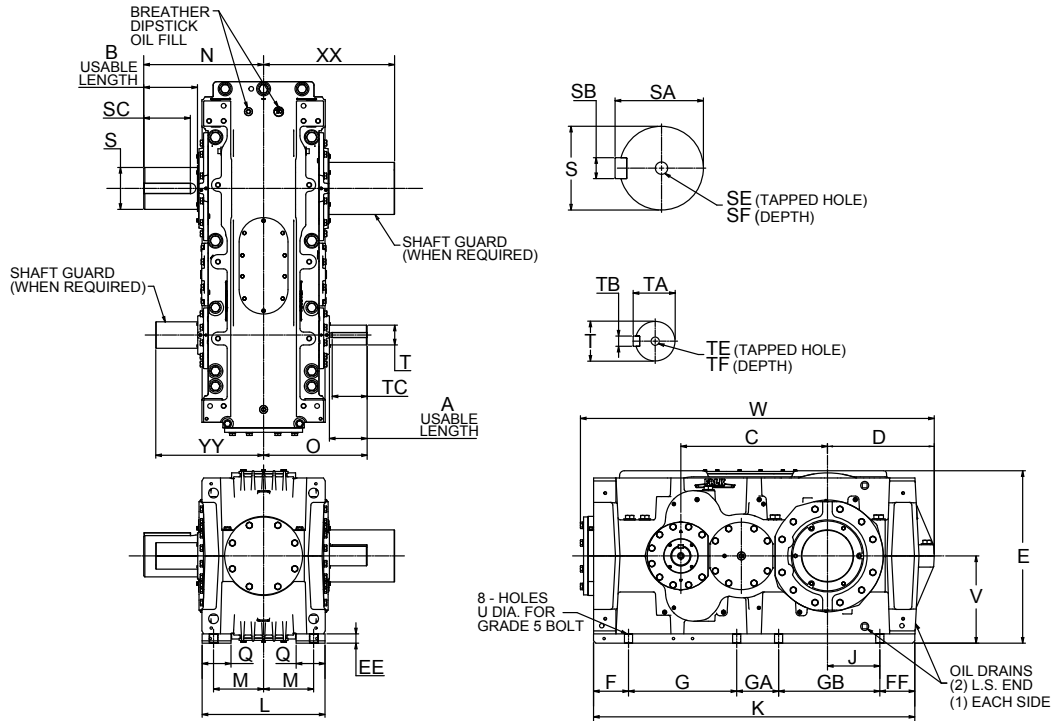
† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

● Single low-speed shaft extension is standard; double extension is special.

Type VPC2 Double Reduction Solid Low-Speed Shaft, Base Drive

Sizes 133 – 173/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | B | C | D | E | EE | F | FF | G | GA | GB | J | K | L | M | N• | O | Q |
|-------------|-----------|-----|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|-----|-------|
| 133 | 5,60-28,0 | 100 | 190 | 430 | 332 | 552 | 35 | 123,4 | 117,3 | 298,0 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 422 | 332 | 112,7 |
| 143 | 5,60-28,0 | 125 | 190 | 485 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 430 | 364 | 108,0 |
| 153 | 5,60-28,0 | 130 | 190 | 560 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 455 | 395 | 114,0 |
| 163 | 5,60-28,0 | 155 | 225 | 630 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 515 | 445 | 124,0 |
| 173 | 5,60-25,0 | 160 | 270 | 700 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 585 | 475 | 150,0 |

| DRIVE SIZE★ | Ratios | Low-Speed Shaft† | | | | | | High-Speed Shaft† | | | | | | U | V | W | XX | YY | Approx. Wt. kg. |
|-------------|-----------|------------------|-------|----|-----|-----|----|-------------------|------|-----|-----|-----|----|----|-----|------|-----|-----|-----------------|
| | | S* | SA | SB | SC | SE | SF | T* | TA | TB | TC | TE | TF | | | | | | |
| 133 | 5,60-20,0 | 130m6 | 136,8 | 32 | 180 | M24 | 50 | 56m6 | 59,9 | 16 | 100 | M20 | 42 | 24 | 280 | 1101 | 432 | 342 | 796 |
| | 42k6 | | | | | | | 44,9 | 12 | M16 | | 36 | | | | | | | |
| 143 | 5,60-20,0 | 140m6 | 147,8 | 36 | 180 | M30 | 60 | 65m6 | 68,8 | 18 | 115 | M20 | 42 | 24 | 315 | 1222 | 440 | 376 | 1041 |
| | 45k6 | | | | | | | 48,4 | 14 | M16 | | 36 | | | | | | | |
| 153 | 5,60-20,0 | 160m6 | 168,8 | 40 | 180 | M30 | 60 | 75m6 | 79,3 | 20 | 125 | M20 | 42 | 28 | 335 | 1339 | 471 | 413 | 1413 |
| | 55m6 | | | | | | | 58,9 | 16 | | | | | | | | | | |
| 163 | 5,60-20,0 | 180m6 | 189,8 | 45 | 200 | M30 | 60 | 85m6 | 89,8 | 22 | 150 | M20 | 42 | 35 | 375 | 1521 | 563 | 463 | 1965 |
| | 65m6 | | | | | | | 68,8 | 18 | | | | | | | | | | |
| 173 | 5,00-18,0 | 195m6 | 204,8 | 45 | 250 | M30 | 60 | 95m6 | 99,8 | 25 | 155 | M24 | 50 | 35 | 450 | 1815 | 612 | 491 | 2883 |
| | 75m6 | | | | | | | 79,3 | 20 | M20 | | 42 | | | | | | | |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

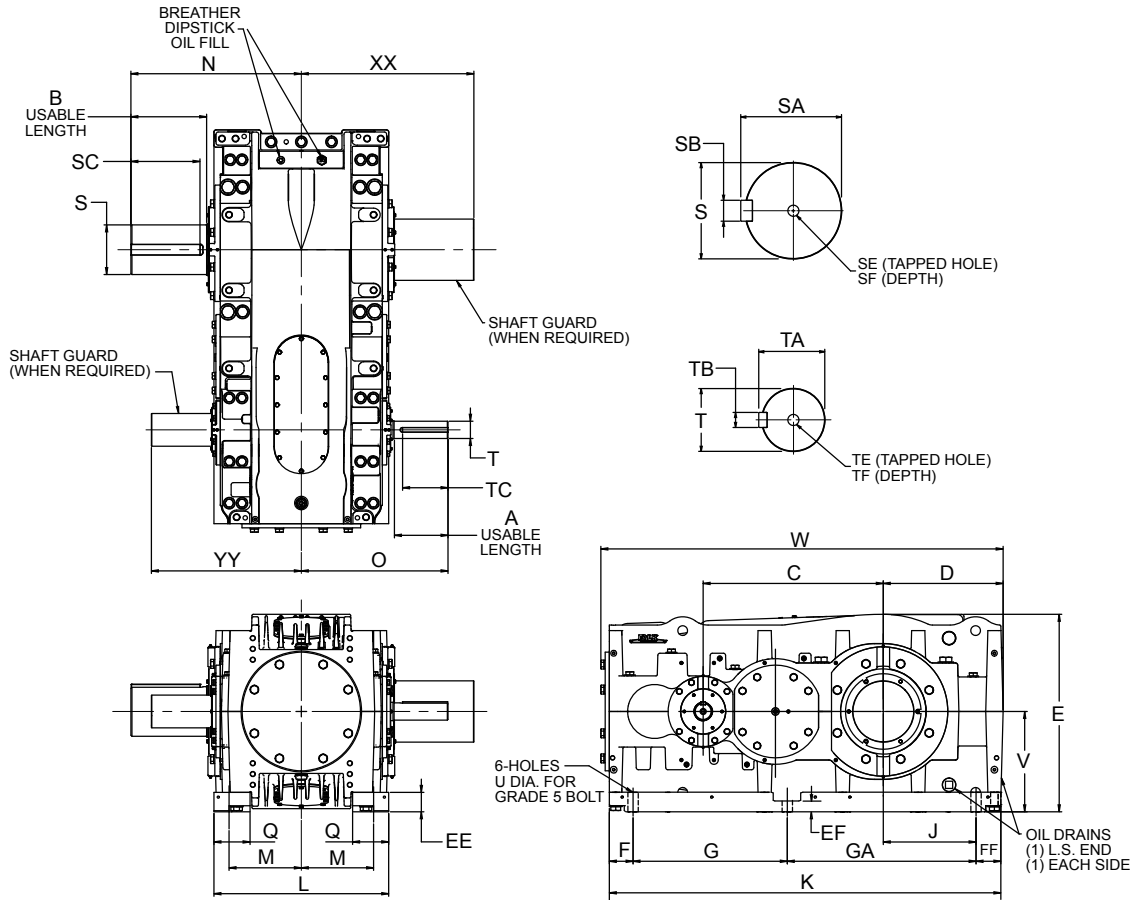
† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

● Single low-speed shaft extension is standard; double extension is special.

Type VPC2 Double Reduction Solid Low-Speed Shaft, Base Drive

Sizes 193 – 223/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | B | C | D | E | EE | EF | F | FF | G | GA | J | K | L | M | N• | O | Q |
|-------------|-----------|-----|-----|-----|-----|------|-----|----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-------|
| 193 | 5,00-25,0 | 240 | 350 | 795 | 596 | 916 | 90 | 55 | 109 | 115 | 715 | 875 | 470 | 1814 | 810 | 335 | 790 | 680 | 167,3 |
| 203 | 5,60-28,0 | 240 | 350 | 835 | 556 | 916 | 90 | 55 | 109 | 115 | 715 | 875 | 430 | 1814 | 810 | 335 | 790 | 680 | 167,3 |
| 213 | 5,00-25,0 | 270 | 410 | 930 | 700 | 1084 | 115 | 75 | 134 | 157 | 830 | 1005 | 530 | 2126 | 900 | 375 | 895 | 765 | 172,8 |
| 223 | 5,60-28,0 | 270 | 410 | 980 | 650 | 1084 | 115 | 75 | 134 | 157 | 830 | 1005 | 480 | 2126 | 900 | 375 | 895 | 765 | 172,8 |

| DRIVE SIZE★ | Ratios | Low-Speed Shaft† | | | | | | High-Speed Shaft† | | | | | | U | V | W | XX | YY | Approx. Wt. kg. |
|-------------|-----------|------------------|-------|----|-----|-----|----|-------------------|-------|----|-----|-----|----|----|-----|------|-----|-----|-----------------|
| | | S* | SA | SB | SC | SE | SF | T* | TA | TB | TC | TE | TF | | | | | | |
| 193 | 5,00-18,0 | | | | | | | 120m6 | 126,9 | 32 | 220 | M24 | 50 | 48 | 465 | 1865 | 800 | 695 | 4584 |
| | 20,0-25,0 | 230m6 | 240,8 | 50 | 320 | M30 | 60 | 80m6 | 84,9 | 22 | 210 | M20 | 42 | | | | | | |
| 203 | 5,60-20,0 | | | | | | | 120m6 | 126,9 | 32 | 220 | M24 | 50 | 48 | 465 | 1865 | 800 | 695 | 4766 |
| | 22,4-28,0 | 230m6 | 240,8 | 50 | 320 | M30 | 60 | 80m6 | 84,9 | 22 | 210 | M20 | 42 | | | | | | |
| 213 | 5,00-18,0 | | | | | | | 140m6 | 147,8 | 36 | 230 | M30 | 60 | 55 | 550 | 2179 | 907 | 777 | 6495 |
| | 20,0-25,0 | 270m6 | 281,8 | 63 | 360 | M30 | 60 | 100m6 | 105,9 | 28 | | M24 | 50 | | | | | | |
| 223 | 5,60-20,0 | | | | | | | 140m6 | 147,8 | 36 | 230 | M30 | 60 | 55 | 550 | 2179 | 907 | 777 | 6860 |
| | 22,4-28,0 | 270m6 | 281,8 | 63 | 360 | M30 | 60 | 100m6 | 105,9 | 28 | | M24 | 50 | | | | | | |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

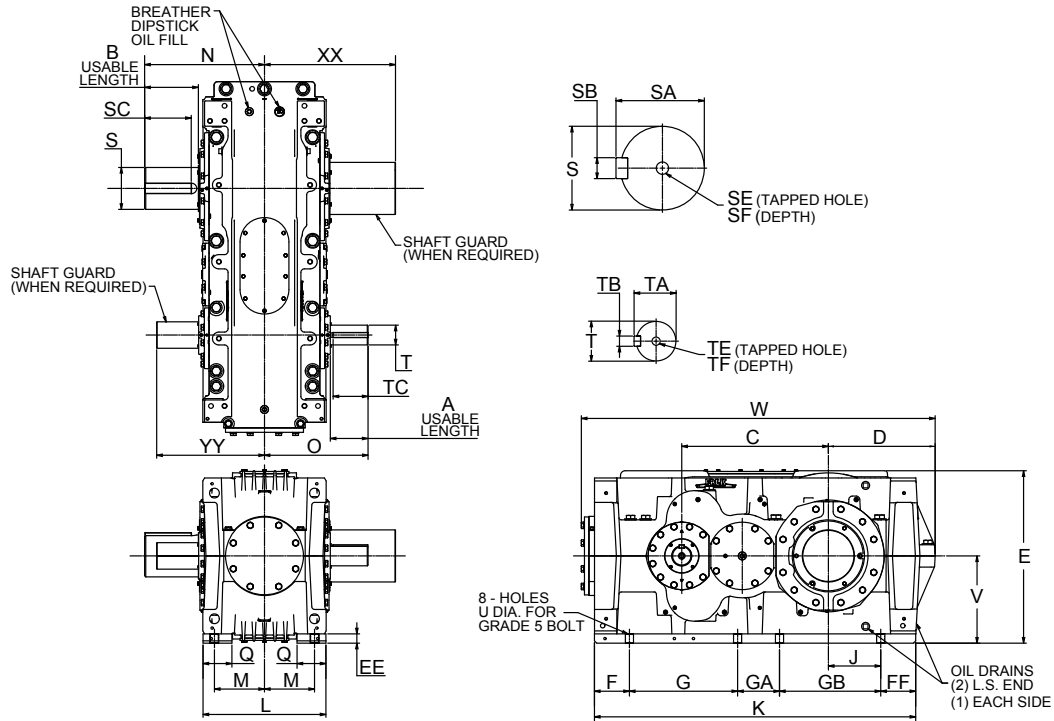
† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

● Single low-speed shaft extension is standard; double extension is special.

Type VPC2 Double Reduction Solid Low-Speed Shaft, Base Drive

Sizes 145 – 175/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | B | C | D | E | EE | F | FF | G | GA | GB | J | K | L | M | N* | O | Q |
|-------------|-----------|-----|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|-----|-------|
| 145 | 5,60-28,0 | 125 | 190 | 485 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 430 | 364 | 108,0 |
| 155 | 5,60-28,0 | 130 | 190 | 560 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 455 | 395 | 114,0 |
| 165 | 5,60-28,0 | 155 | 225 | 630 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 515 | 445 | 124,0 |
| 175 | 5,00-25,0 | 160 | 270 | 700 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 585 | 475 | 150,0 |

| DRIVE SIZE★ | Ratios | Low-Speed Shaft† | | | | | | | High-Speed Shaft† | | | | | | U | V | W | XX | YY | Approx. Wt. kg. |
|-------------|-----------|------------------|-------|----|-----|-----|----|------|-------------------|-----|-----|-----|----|----|-----|------|-----|-----|------|-----------------|
| | | S* | SA | SB | SC | SE | SF | T* | TA | TB | TC | TE | TF | | | | | | | |
| 145 | 5,60-20,0 | 140m6 | 147,8 | 36 | 180 | M30 | 60 | 65m6 | 68,8 | 18 | 115 | M20 | 42 | 24 | 315 | 1222 | 440 | 376 | 1041 | |
| | 45k6 | | | | | | | 48,4 | 14 | M16 | | 36 | | | | | | | | |
| 155 | 5,60-20,0 | 160m6 | 168,8 | 40 | 180 | M30 | 60 | 75m6 | 79,3 | 20 | 125 | M20 | 42 | 28 | 335 | 1339 | 471 | 413 | 1413 | |
| | 55m6 | | | | | | | 58,9 | 16 | | | | | | | | | | | |
| 165 | 5,60-20,0 | 180m6 | 189,8 | 45 | 200 | M30 | 60 | 85m6 | 89,8 | 22 | 150 | M20 | 42 | 35 | 375 | 1521 | 563 | 463 | 1965 | |
| | 65m6 | | | | | | | 68,8 | 18 | | | | | | | | | | | |
| 175 | 5,00-18,0 | 195m6 | 204,8 | 45 | 250 | M30 | 60 | 95m6 | 99,8 | 25 | 155 | M24 | 50 | 35 | 450 | 1815 | 612 | 491 | 2883 | |
| | 75m6 | | | | | | | 79,3 | 20 | M20 | | 42 | | | | | | | | |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

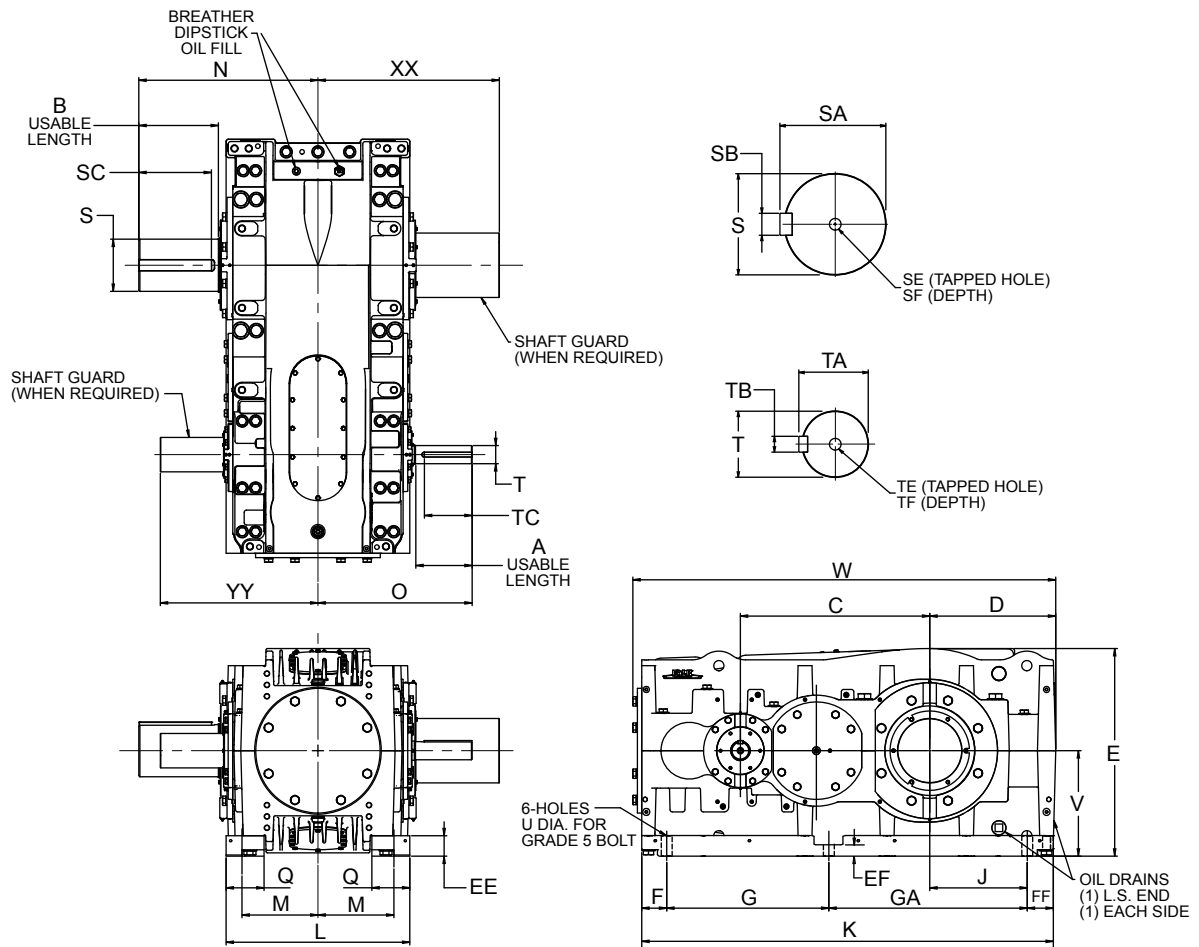
† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

● Single low-speed shaft extension is standard; double extension is special.

Type VPC2 Double Reduction Solid Low-Speed Shaft, Base Drive

Sizes 195 – 225/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | B | C | D | E | EE | EF | F | FF | G | GA | J | K | L | M | N• | O | Q |
|-------------|-----------|-----|-----|-----|-----|------|-----|----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-------|
| 195 | 5,00-25,0 | 240 | 350 | 795 | 596 | 916 | 90 | 55 | 109 | 115 | 715 | 875 | 470 | 1814 | 810 | 335 | 790 | 680 | 167,3 |
| 215 | 5,00-25,0 | 270 | 410 | 930 | 700 | 1084 | 115 | 75 | 134 | 157 | 830 | 1005 | 530 | 2126 | 900 | 375 | 895 | 765 | 172,8 |
| 225 | 5,60-28,0 | 270 | 410 | 980 | 650 | 1084 | 115 | 75 | 134 | 157 | 830 | 1005 | 480 | 2126 | 900 | 375 | 895 | 765 | 172,8 |

| DRIVE SIZE★ | Ratios | Low-Speed Shaft† | | | | | | High-Speed Shaft† | | | | | | U | V | W | XX | YY | Approx. Wt. kg. |
|-------------|-----------|------------------|-------|----|-----|-----|----|-------------------|-------|-----|-----|-----|----|----|-----|------|-----|-----|-----------------|
| | | S* | SA | SB | SC | SE | SF | T* | TA | TB | TC | TE | TF | | | | | | |
| 195 | 5,00-18,0 | 230m6 | 240,8 | 50 | 320 | M30 | 60 | 120m6 | 126,9 | 32 | 220 | M24 | 50 | 48 | 465 | 1865 | 800 | 695 | 4584 |
| | 80m6 | | | | | | | 84,9 | 22 | 210 | M20 | 42 | | | | | | | |
| 215 | 5,00-18,0 | 270m6 | 281,8 | 63 | 360 | M30 | 60 | 140m6 | 147,8 | 36 | 230 | M30 | 60 | 55 | 550 | 2179 | 907 | 777 | 6495 |
| | 100m6 | | | | | | | 105,9 | 28 | M24 | | 50 | | | | | | | |
| 225 | 5,60-20,0 | 270m6 | 281,8 | 63 | 360 | M30 | 60 | 140m6 | 147,8 | 36 | 230 | M30 | 60 | 55 | 550 | 2179 | 907 | 777 | 6860 |
| | 100m6 | | | | | | | 105,9 | 28 | M24 | | 50 | | | | | | | |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

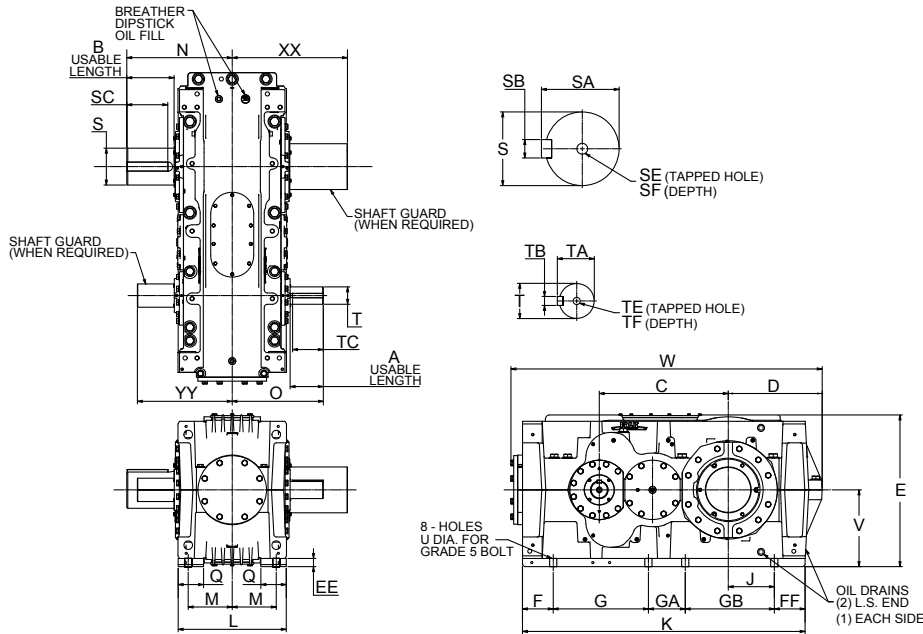
† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

● Single low-speed shaft extension is standard; double extension is special.

Type VPC2 Double Reduction Solid Low-Speed Shaft, Base Drive

Sizes 107 – 187/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | B | C | D | E | EE | F | FF | G | GA | GB | J | K | L | M | N• | O | Q |
|-------------|-----------|-----|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|-----|-------|
| 107 | 5,6-28,0 | 100 | 120 | 300 | 261 | 419 | 25 | 111,0 | 111,0 | 200,0 | 100 | 200,0 | 100 | 722,0 | 322 | 125,0 | 295 | 275 | 78,0 |
| 117 | 5,6-28,0 | 100 | 155 | 340 | 286 | 464 | 25 | 115,0 | 115,0 | 230,0 | 120 | 230,0 | 120 | 810,0 | 364 | 150,0 | 355 | 300 | 92,0 |
| 127 | 5,6-28,0 | 100 | 155 | 385 | 305 | 522 | 25 | 120,0 | 105,0 | 270,0 | 150 | 253,0 | 144 | 898,0 | 410 | 165,0 | 373 | 318 | 101,6 |
| 137 | 5,6-28,0 | 100 | 190 | 430 | 332 | 552 | 35 | 123,4 | 117,3 | 297,5 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 422 | 332 | 112,7 |
| 147 | 5,60-28,0 | 125 | 190 | 485 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 430 | 364 | 108,0 |
| 157 | 5,60-28,0 | 130 | 190 | 560 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 455 | 395 | 114,0 |
| 167 | 5,60-28,0 | 155 | 225 | 630 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 515 | 445 | 124,0 |
| 177 | 5,00-25,0 | 160 | 270 | 700 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 585 | 475 | 150,0 |
| 187 | 5,60-28,0 | 160 | 270 | 725 | 559 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 290 | 1633,5 | 588 | 245,0 | 585 | 475 | 150,0 |

| DRIVE SIZE★ | Ratios | Low-Speed Shaft† | | | | | | High-Speed Shaft† | | | | | | U | V | W | XX | YY | Approx. Wt. kg. |
|-------------|-----------|------------------|-------|----|-----|-----|----|-------------------|------|-----|-----|-----|----|----|-----|------|-----|-----|-----------------|
| | | S* | SA | SB | SC | SE | SF | T* | TA | TB | TC | TE | TF | | | | | | |
| 107 | 5,60-20,0 | 100m6 | 105,9 | 28 | 110 | M24 | 50 | 42k6 | 44,9 | 12 | 100 | M16 | 36 | 15 | 212 | 817 | 305 | 282 | 329 |
| | 28j6 | | | | | | | 30,9 | 8 | M10 | | 22 | | | | | | | |
| 117 | 5,60-20,0 | 110m6 | 115,9 | 28 | 140 | M24 | 50 | 42k6 | 44,9 | 12 | 100 | M16 | 36 | 19 | 236 | 917 | 365 | 308 | 471 |
| | 35k6 | | | | | | | 37,9 | 10 | M12 | | 28 | | | | | | | |
| 127 | 5,60-20,0 | 120m6 | 126,9 | 32 | 140 | M24 | 50 | 52m6 | 55,9 | 16 | 100 | M20 | 42 | 19 | 265 | 1007 | 381 | 327 | 617 |
| | 35k6 | | | | | | | 37,9 | 10 | M12 | | 28 | | | | | | | |
| 137 | 5,60-20,0 | 130m6 | 136,8 | 32 | 180 | M24 | 50 | 56m6 | 59,9 | 16 | 100 | M20 | 42 | 24 | 280 | 1101 | 432 | 343 | 796 |
| | 42k6 | | | | | | | 44,9 | 12 | M16 | | 36 | | | | | | | |
| 147 | 5,60-20,0 | 140m6 | 147,8 | 36 | 180 | M30 | 60 | 65m6 | 68,8 | 18 | 115 | M20 | 42 | 24 | 315 | 1222 | 440 | 376 | 1041 |
| | 45k6 | | | | | | | 48,4 | 14 | M16 | | 36 | | | | | | | |
| 157 | 5,60-20,0 | 160m6 | 168,8 | 40 | 180 | M30 | 60 | 75m6 | 79,3 | 20 | 125 | M20 | 42 | 28 | 335 | 1339 | 471 | 422 | 1413 |
| | 55m6 | | | | | | | 58,9 | 16 | | | | | | | | | | |
| 167 | 5,60-20,0 | 180m6 | 189,8 | 45 | 200 | M30 | 60 | 85m6 | 89,8 | 22 | 150 | M20 | 42 | 35 | 375 | 1521 | 563 | 463 | 1965 |
| | 65m6 | | | | | | | 68,8 | 18 | | | | | | | | | | |
| 177 | 5,00-18,0 | 195m6 | 204,8 | 45 | 250 | M30 | 60 | 95m6 | 99,8 | 25 | 155 | M24 | 50 | 35 | 450 | 1815 | 612 | 491 | 2883 |
| | 75m6 | | | | | | | 79,3 | 20 | M20 | | 42 | | | | | | | |
| 187 | 5,60-20,0 | 195m6 | 204,8 | 45 | 250 | M30 | 60 | 95m6 | 99,8 | 25 | 155 | M24 | 50 | 35 | 450 | 1815 | 612 | 491 | 2881 |
| | 75m6 | | | | | | | 79,3 | 20 | M20 | | 42 | | | | | | | |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

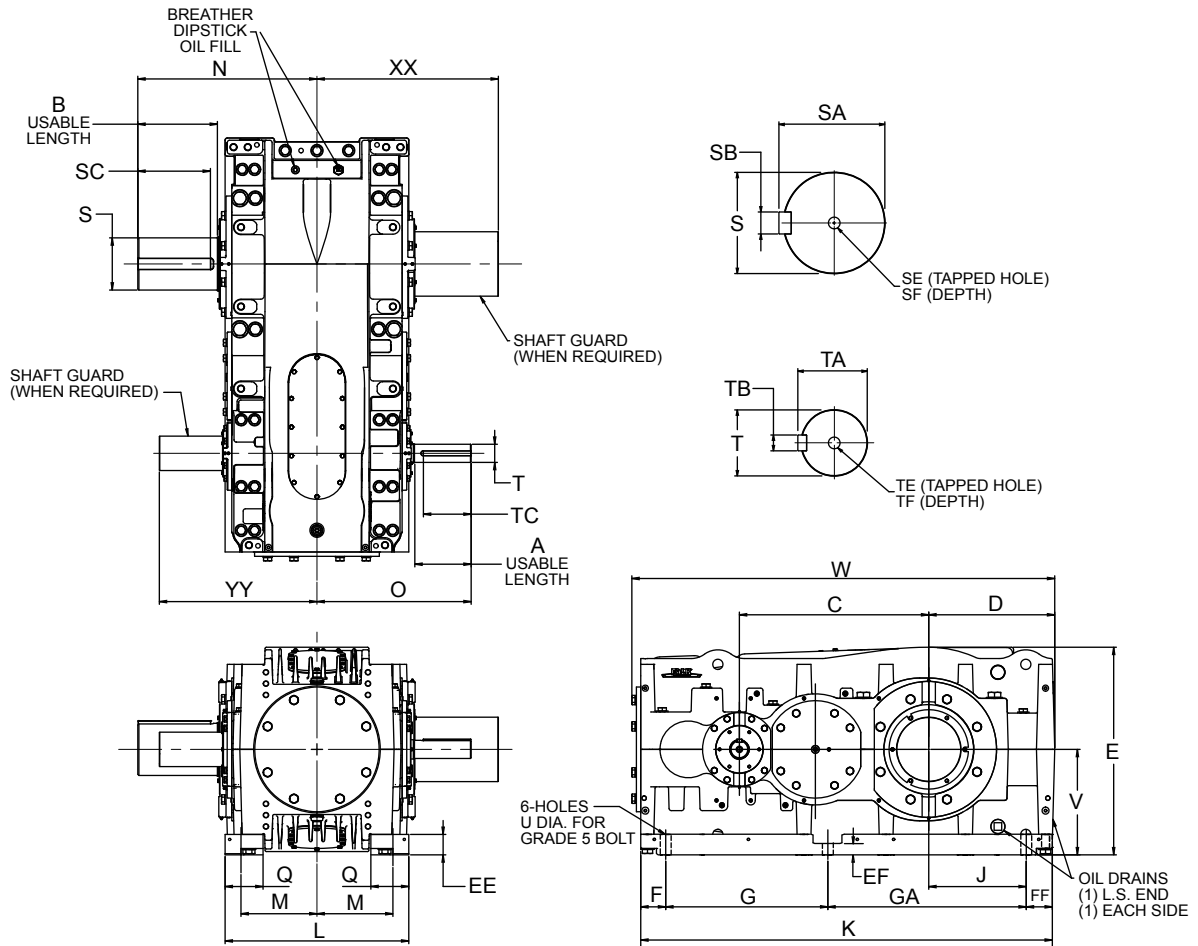
† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

● Single low-speed shaft extension is standard; double extension is special.

Type VPC2 Double Reduction Solid Low-Speed Shaft, Base Drive

Sizes 197 – 227/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | B | C | D | E | EE | EF | F | FF | G | GA | J | K | L | M | N* | O | Q |
|-------------|-----------|-----|-----|-----|-----|------|-----|----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-------|
| 197 | 5,00-25,0 | 240 | 350 | 795 | 596 | 916 | 90 | 55 | 109 | 115 | 715 | 875 | 470 | 1814 | 810 | 335 | 790 | 680 | 167,3 |
| 207 | 5,60-28,0 | 240 | 350 | 835 | 556 | 916 | 90 | 55 | 109 | 115 | 715 | 875 | 430 | 1814 | 810 | 335 | 790 | 680 | 167,3 |
| 217 | 5,00-25,0 | 270 | 410 | 930 | 700 | 1084 | 115 | 75 | 134 | 157 | 830 | 1005 | 530 | 2126 | 900 | 375 | 895 | 765 | 172,8 |
| 227 | 5,60-28,0 | 270 | 410 | 980 | 650 | 1084 | 115 | 75 | 134 | 157 | 830 | 1005 | 480 | 2126 | 900 | 375 | 895 | 765 | 172,8 |

| DRIVE SIZE★ | Ratios | Low-Speed Shaft† | | | | | | High-Speed Shaft† | | | | | | U | V | W | XX | YY | Approx. Wt. kg. |
|-------------|-----------|------------------|-------|----|-----|-----|----|-------------------|-------|----|-----|-----|----|----|-----|------|-----|-----|-----------------|
| | | S* | SA | SB | SC | SE | SF | T* | TA | TB | TC | TE | TF | | | | | | |
| 197 | 5,00-18,0 | 230m6 | 240,8 | 50 | 320 | M30 | 60 | 120m6 | 126,9 | 32 | 220 | M24 | 50 | 48 | 465 | 1865 | 800 | 695 | 4584 |
| | 20,0-25,0 | | | | | | | 80m6 | 84,9 | 22 | 210 | M20 | 42 | | | | | | |
| 207 | 5,60-20,0 | 230m6 | 240,8 | 50 | 320 | M30 | 60 | 120m6 | 126,9 | 32 | 220 | M24 | 50 | 48 | 465 | 1865 | 800 | 695 | 4766 |
| | 22,4-28,0 | | | | | | | 80m6 | 84,9 | 22 | 210 | M20 | 42 | | | | | | |
| 217 | 5,00-18,0 | 270m6 | 281,8 | 63 | 360 | M30 | 60 | 140m6 | 147,8 | 36 | 230 | M30 | 60 | 55 | 550 | 2179 | 907 | 777 | 6495 |
| | 20,0-25,0 | | | | | | | 100m6 | 105,9 | 28 | | M24 | 50 | | | | | | |
| 227 | 5,60-20,0 | 270m6 | 281,8 | 63 | 360 | M30 | 60 | 140m6 | 147,8 | 36 | 230 | M30 | 60 | 55 | 550 | 2179 | 907 | 777 | 6860 |
| | 22,4-28,0 | | | | | | | 100m6 | 105,9 | 28 | | M24 | 50 | | | | | | |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

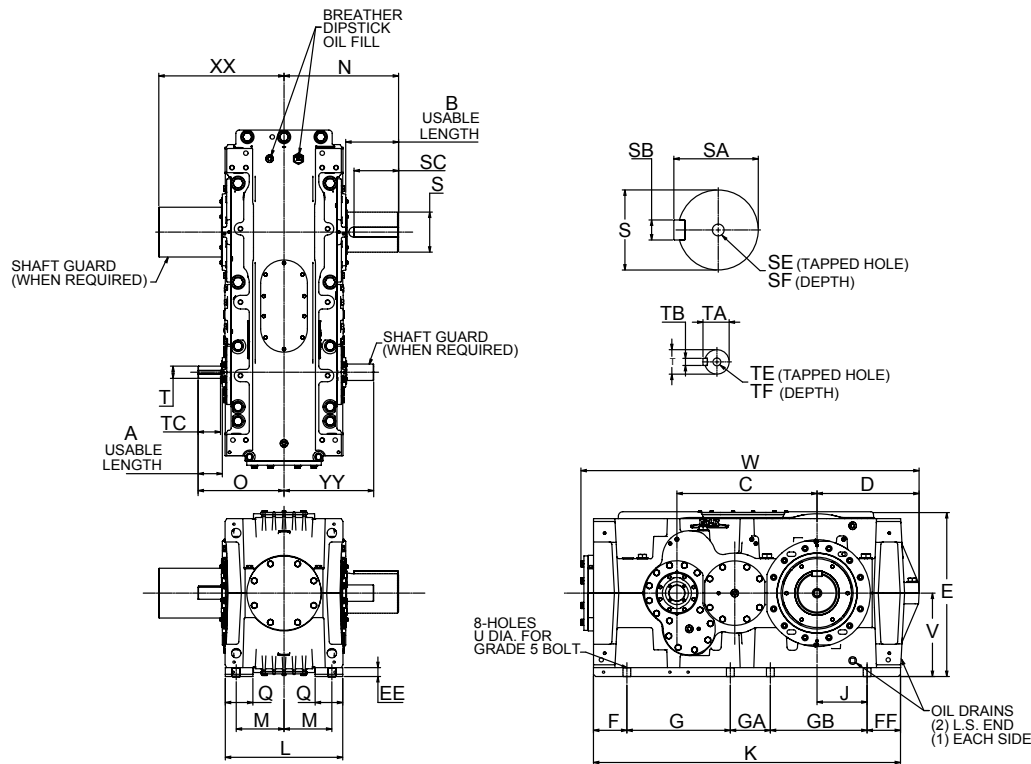
† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

● Single low-speed shaft extension is standard; double extension is special.

Type VPC3 Triple Reduction Solid Low-Speed Shaft, Base Drive

Sizes 133 – 173/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | B | C | D | E | EE | F | FF | G | GA | GB | J | K | L | M | N• | O | Q |
|-------------|----------|-----|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|-----|-------|
| 133 | 31,5-160 | 70 | 190 | 430 | 332 | 552 | 35 | 123,4 | 117,3 | 297,5 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 422 | 302 | 112,7 |
| | 125-160 | 100 | 190 | 485 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 430 | 334 | 108,0 |
| 153 | 31,5-160 | 100 | 190 | 560 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 455 | 365 | 114,0 |
| | 125-160 | 100 | 225 | 630 | 459 | 745 | 40 | 149, | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 515 | 387 | 124,0 |
| 173 | 28,0-140 | 130 | 270 | 700 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 585 | 445 | 150,0 |

| DRIVE SIZE★ | Ratios | Low-Speed Shaft† | | | | | | High-Speed Shaft† | | | | | | U | V | W | XX | YY | Approx. Wt. kg. |
|-------------|----------|------------------|-------|----|-----|-----|----|-------------------|------|-----|-----|-----|----|----|-----|------|-----|-----|-----------------|
| | | S* | SA | SB | SC | SE | SF | T* | TA | TB | TC | TE | TF | | | | | | |
| 133 | 31,5-112 | 130m6 | 136,8 | 32 | 180 | M24 | 50 | 35k6 | 37,9 | 10 | 65 | M12 | 28 | 24 | 280 | 1101 | 432 | 316 | 816 |
| | 25j6 | | | | | | | 27,9 | 8 | M10 | | 22 | | | | | | | |
| 143 | 31,5-112 | 140m6 | 147,8 | 36 | 180 | M30 | 60 | 45k6 | 48,4 | 14 | 90 | M16 | 36 | 24 | 315 | 1222 | 440 | 353 | 1007 |
| | 30j6 | | | | | | | 32,9 | 8 | M10 | | 22 | | | | | | | |
| 153 | 31,5-112 | 160m6 | 168,8 | 40 | 180 | M30 | 60 | 48k6 | 51,4 | 14 | 100 | M16 | 36 | 28 | 335 | 1339 | 471 | 373 | 1432 |
| | 35k6 | | | | | | | 37,9 | 10 | M12 | | 28 | | | | | | | |
| 163 | 31,5-112 | 180m6 | 189,8 | 45 | 200 | M30 | 60 | 55m6 | 58,9 | 16 | 100 | M20 | 42 | 35 | 375 | 1521 | 563 | 403 | 1999 |
| | 42k6 | | | | | | | 44,9 | 12 | M16 | | 36 | | | | | | | |
| 173 | 28,0-100 | 195m6 | 204,8 | 45 | 250 | M30 | 60 | 65m6 | 68,8 | 18 | 120 | M20 | 42 | 35 | 450 | 1815 | 612 | 466 | 2874 |
| | 50k6 | | | | | | | 53,4 | 14 | M16 | | 36 | | | | | | | |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

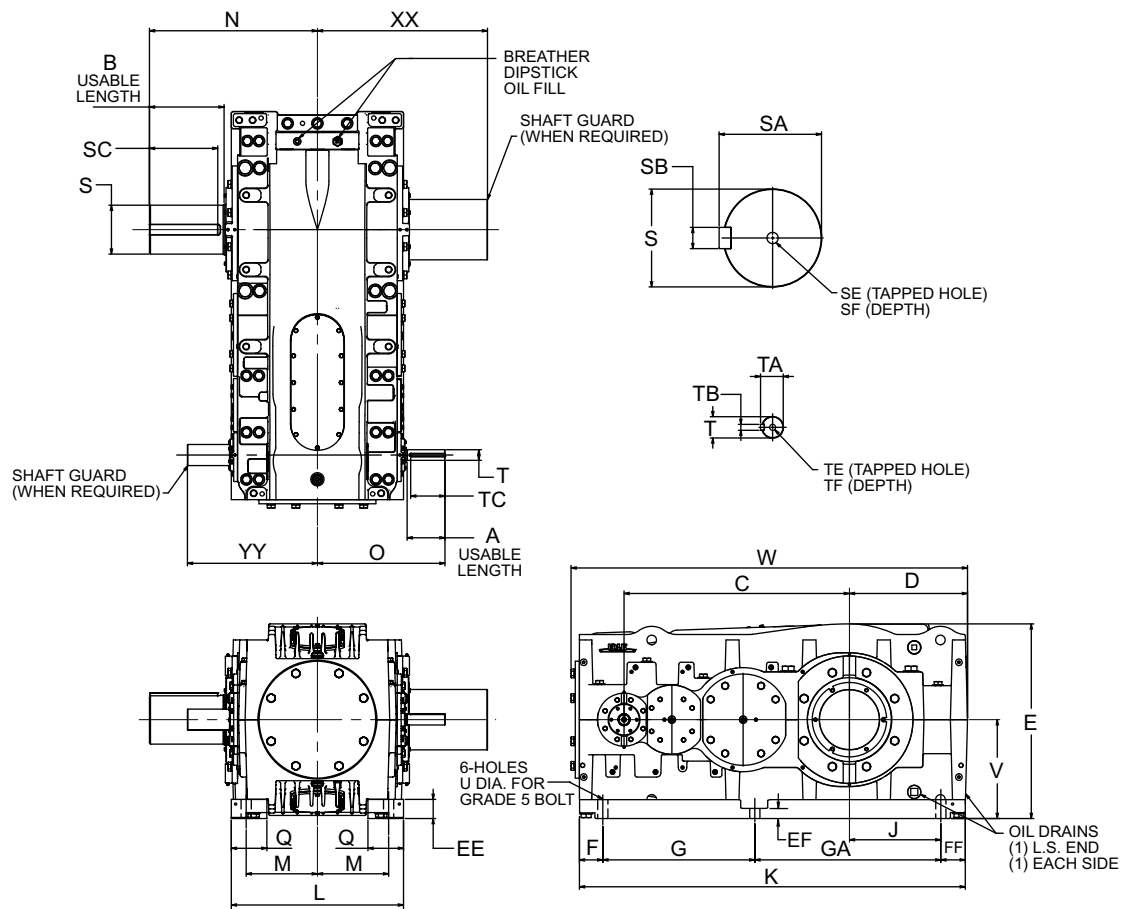
† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

● Single low-speed shaft extension is standard; double extension is special.

Type VPC3 Triple Reduction Solid Low-Speed Shaft, Base Drive

Sizes 193 – 223/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | B | C | D | E | EF | EE | F | FF | G | GA | J | K | L | M | N• | O | Q |
|-------------|----------|-----|-----|------|-----|------|----|-----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-------|
| 193 | 28,0-140 | 170 | 350 | 1020 | 596 | 916 | 55 | 90 | 109 | 115 | 715 | 875 | 470 | 1814 | 810 | 335 | 790 | 600 | 167,3 |
| 203 | 31,5-160 | 170 | 350 | 1060 | 556 | 916 | 55 | 90 | 109 | 115 | 715 | 875 | 430 | 1814 | 810 | 335 | 790 | 600 | 167,3 |
| 213 | 28,0-140 | 200 | 410 | 1190 | 700 | 1084 | 75 | 115 | 134 | 157 | 830 | 1005 | 530 | 2126 | 900 | 375 | 895 | 675 | 172,8 |
| 223 | 31,5-160 | 200 | 410 | 1240 | 650 | 1084 | 75 | 115 | 134 | 157 | 830 | 1005 | 480 | 2126 | 900 | 375 | 895 | 675 | 172,8 |

| DRIVE SIZE★ | Ratios | Low-Speed Shaft† | | | | | | High-Speed Shaft† | | | | | | U | V | W | XX | YY | Approx. Wt. kg. |
|-------------|----------|------------------|-------|----|-----|-----|----|-------------------|------|-----|-----|-----|----|----|-----|------|-----|-----|-----------------|
| | | S* | SA | SB | SC | SE | SF | T* | TA | TB | TC | TE | TF | | | | | | |
| 193 | 28,0-100 | 230m6 | 240,8 | 50 | 320 | M30 | 60 | 70m6 | 74,4 | 20 | 160 | M20 | 42 | 48 | 465 | 1865 | 800 | 611 | 4633 |
| | 50k6 | | | | | | | 53,4 | 14 | M16 | | 36 | | | | | | | |
| 203 | 31,5-112 | 230m6 | 240,8 | 50 | 320 | M30 | 60 | 70m6 | 74,4 | 20 | 160 | M20 | 42 | 48 | 465 | 1865 | 800 | 611 | 4826 |
| | 50k6 | | | | | | | 53,4 | 14 | M16 | | 36 | | | | | | | |
| 213 | 28,0-100 | 270m6 | 281,8 | 63 | 360 | M30 | 60 | 90m6 | 94,9 | 25 | 180 | M24 | 50 | 55 | 550 | 2179 | 907 | 685 | 6564 |
| | 65m6 | | | | | | | 68,9 | 18 | M20 | | 42 | | | | | | | |
| 223 | 31,5-112 | 270m6 | 281,8 | 63 | 360 | M30 | 60 | 90m6 | 94,9 | 25 | 180 | M24 | 50 | 55 | 550 | 2179 | 907 | 685 | 6904 |
| | 65m6 | | | | | | | 68,9 | 18 | M20 | | 42 | | | | | | | |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

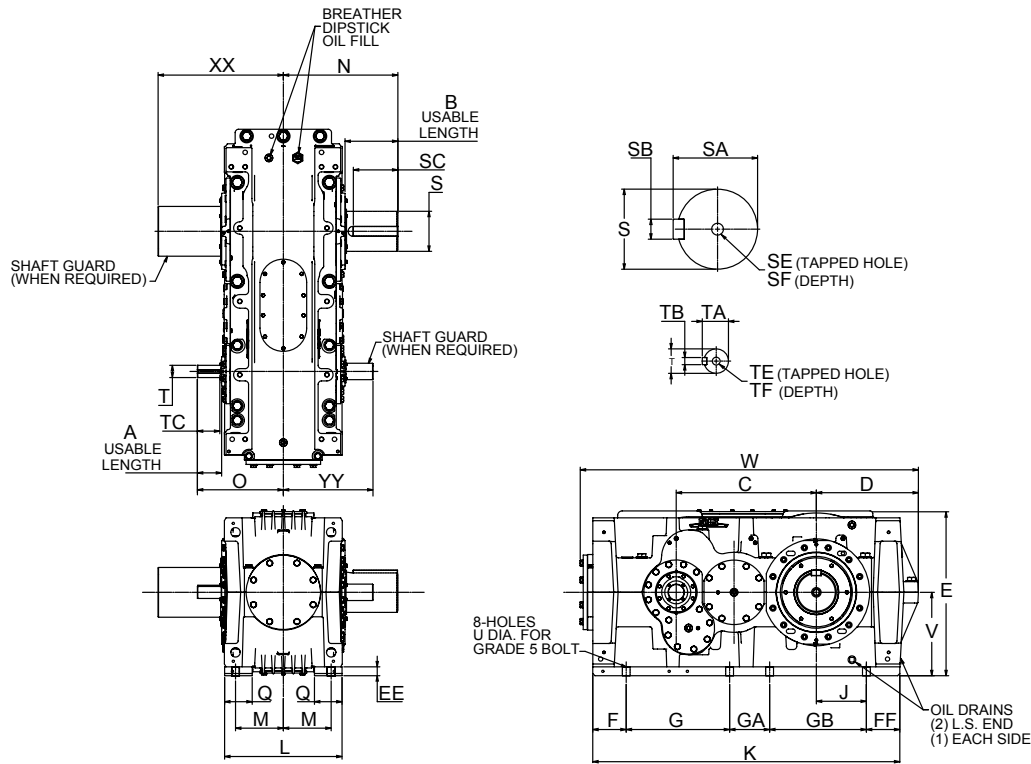
† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

• Single low-speed shaft extension is standard; double extension is special.

Type VPC3 Triple Reduction Solid Low-Speed Shaft, Base Drive

Sizes 145 – 175/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | B | C | D | E | EE | F | FF | G | GA | GB | J | K | L | M | N* | O | Q |
|-------------|----------|-----|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|-----|-------|
| 145 | 31,5-160 | 100 | 190 | 485 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 430 | 334 | 108,0 |
| 155 | 31,5-160 | 100 | 190 | 560 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 455 | 365 | 114,0 |
| 165 | 31,5-160 | 100 | 225 | 630 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 515 | 387 | 124,0 |
| 175 | 28,0-140 | 130 | 270 | 700 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 585 | 445 | 150,0 |

| DRIVE SIZE★ | Ratios | Low-Speed Shaft† | | | | | | High-Speed Shaft† | | | | | | U | V | W | XX | YY | Approx. Wt. kg. |
|-------------|----------|------------------|-------|----|-----|-----|----|-------------------|------|-----|-----|-----|----|----|-----|------|-----|-----|-----------------|
| | | S* | SA | SB | SC | SE | SF | T* | TA | TB | TC | TE | TF | | | | | | |
| 145 | 31,5-112 | 140m6 | 147,8 | 36 | 180 | M30 | 60 | 45k6 | 48,4 | 14 | 90 | M16 | 36 | 24 | 315 | 1222 | 440 | 353 | 1007 |
| | 30j6 | | | | | | | 32,9 | 8 | M10 | | 22 | | | | | | | |
| 155 | 31,5-112 | 160m6 | 168,8 | 40 | 180 | M30 | 60 | 48k6 | 51,4 | 14 | 100 | M16 | 36 | 28 | 335 | 1339 | 471 | 373 | 1432 |
| | 35k6 | | | | | | | 37,9 | 10 | M12 | | 28 | | | | | | | |
| 165 | 31,5-112 | 180m6 | 189,8 | 45 | 200 | M30 | 60 | 55m6 | 58,9 | 16 | 100 | M20 | 42 | 35 | 375 | 1521 | 563 | 403 | 1999 |
| | 42k6 | | | | | | | 44,9 | 12 | M16 | | 36 | | | | | | | |
| 175 | 28,0-100 | 195m6 | 204,8 | 45 | 250 | M30 | 60 | 65m6 | 68,8 | 18 | 120 | M20 | 42 | 35 | 450 | 1815 | 612 | 466 | 2874 |
| | 50k6 | | | | | | | 53,4 | 14 | M16 | | 36 | | | | | | | |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

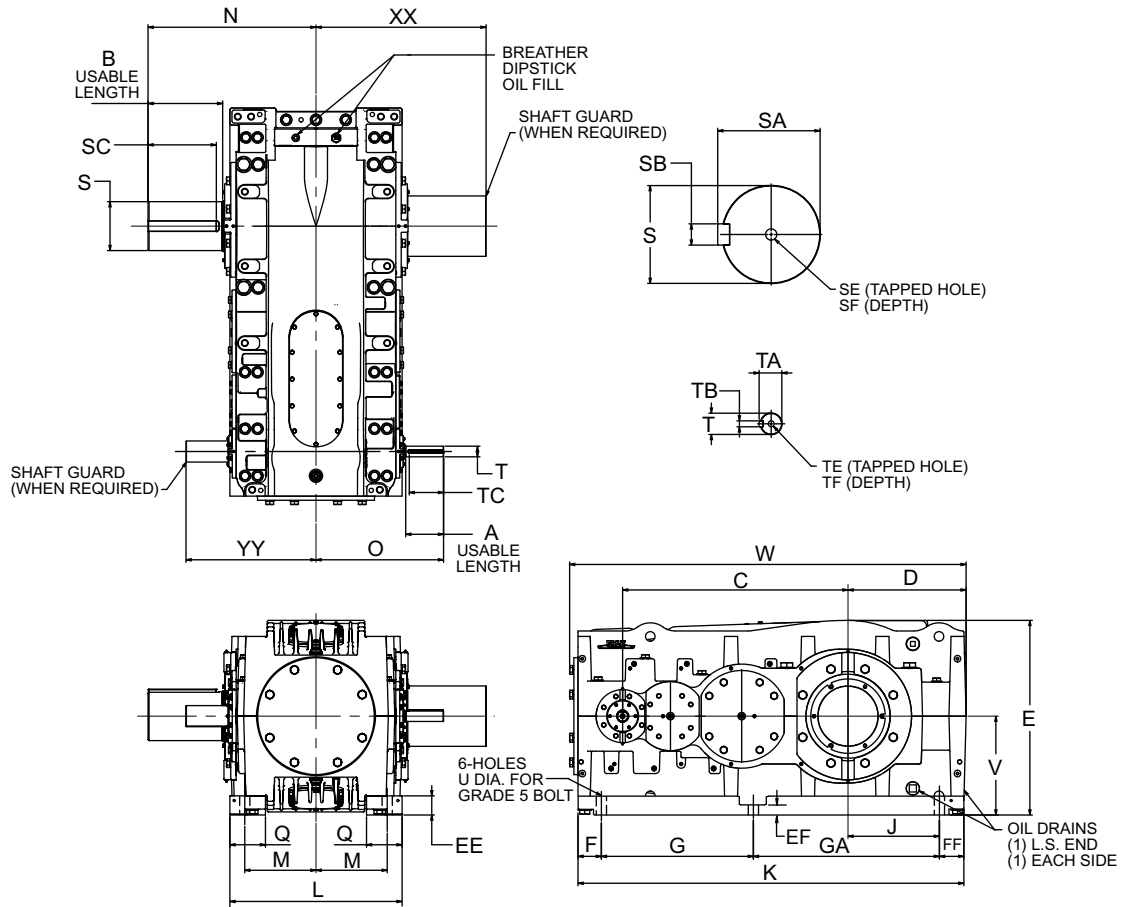
† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

● Single low-speed shaft extension is standard; double extension is special.

Type VPC3 Triple Reduction Solid Low-Speed Shaft, Base Drive

Sizes 195 – 225/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | B | C | D | E | EE | EF | F | FF | G | GA | J | K | L | M | N• | O | Q |
|-------------|----------|-----|-----|------|-----|------|-----|----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-------|
| 195 | 28,0-140 | 170 | 350 | 1020 | 596 | 916 | 90 | 55 | 109 | 115 | 715 | 875 | 470 | 1814 | 810 | 335 | 790 | 600 | 167,3 |
| 215 | 28,0-140 | 200 | 410 | 1190 | 700 | 1084 | 115 | 75 | 134 | 157 | 830 | 1005 | 530 | 2126 | 900 | 375 | 895 | 675 | 172,8 |
| 225 | 31,5-160 | 200 | 410 | 1240 | 650 | 1084 | 115 | 75 | 134 | 157 | 830 | 1005 | 480 | 2126 | 900 | 375 | 895 | 675 | 172,8 |

| DRIVE SIZE★ | Ratios | Low-Speed Shaft† | | | | | | High-Speed Shaft† | | | | | | U | V | W | XX | YY | Approx. Wt. kg. |
|-------------|----------|------------------|-------|----|-----|-----|----|-------------------|------|-----|-----|-----|----|----|-----|------|-----|-----|-----------------|
| | | S* | SA | SB | SC | SE | SF | T* | TA | TB | TC | TE | TF | | | | | | |
| 195 | 28,0-100 | 230m6 | 240,8 | 50 | 320 | M30 | 60 | 70m6 | 74,4 | 20 | 160 | M20 | 42 | 48 | 465 | 1865 | 800 | 611 | 4633 |
| | 50k6 | | | | | | | 53,4 | 14 | M16 | | 36 | | | | | | | |
| 215 | 28,0-100 | 270m6 | 281,8 | 63 | 360 | M30 | 60 | 90m6 | 94,9 | 25 | 180 | M24 | 50 | 55 | 550 | 2179 | 907 | 685 | 6564 |
| | 65m6 | | | | | | | 68,9 | 18 | M20 | | 42 | | | | | | | |
| 225 | 31,5-112 | 270m6 | 281,8 | 63 | 360 | M30 | 60 | 90m6 | 94,9 | 25 | 180 | M24 | 50 | 55 | 550 | 2179 | 907 | 685 | 6904 |
| | 65m6 | | | | | | | 68,9 | 18 | M20 | | 42 | | | | | | | |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

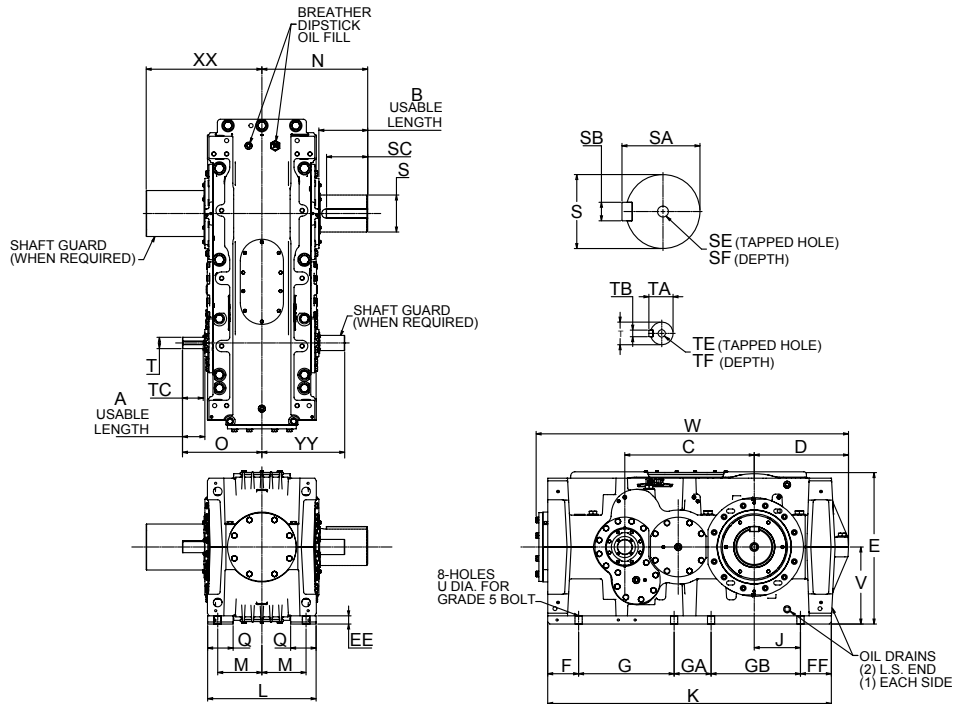
† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

● Single low-speed shaft extension is standard; double extension is special.

Type VPC3 Triple Reduction Solid Low-Speed Shaft, Base Drive

Sizes 107 – 187/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | B | C | D | E | EE | F | FF | G | GA | GB | J | K | L | M | N• | O | Q |
|-------------|----------|-----|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|-----|-------|
| 107 | 31,5-160 | 56 | 120 | 300 | 261 | 419 | 25 | 111,0 | 111,0 | 200,0 | 100 | 200,0 | 100 | 722,0 | 322 | 125,0 | 295 | 225 | 78,0 |
| 117 | 31,5-160 | 56 | 155 | 340 | 286 | 464 | 25 | 115,0 | 115,0 | 230,0 | 120 | 230,0 | 120 | 810,0 | 364 | 150,0 | 355 | 249 | 92,0 |
| 127 | 31,5-160 | 75 | 155 | 385 | 305 | 522 | 25 | 120,0 | 105,0 | 270,0 | 150 | 253,0 | 144 | 898,0 | 410 | 165,0 | 373 | 288 | 101,6 |
| 137 | 31,5-160 | 70 | 190 | 430 | 332 | 552 | 35 | 123,4 | 117,3 | 297,5 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 422 | 302 | 112,7 |
| 147 | 31,5-160 | 100 | 190 | 485 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 430 | 334 | 108,0 |
| 157 | 31,5-160 | 100 | 190 | 560 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 455 | 365 | 114,0 |
| 167 | 31,5-160 | 100 | 225 | 630 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 515 | 387 | 124,0 |
| 177 | 28,0-140 | 130 | 270 | 700 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 585 | 445 | 150,0 |
| 187 | 31,5-160 | 130 | 270 | 725 | 559 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 290 | 1633,5 | 588 | 245,0 | 585 | 445 | 150,0 |

| DRIVE SIZE★ | Ratios | Low-Speed Shaft† | | | | | | High-Speed Shaft† | | | | | | U | V | W | XX | YY | Approx. Wt. kg. |
|-------------|----------|------------------|-------|----|-----|-----|----|-------------------|------|-----|-----|-----|----|----|-----|------|-----|-----|-----------------|
| | | S* | SA | SB | SC | SE | SF | T* | TA | TB | TC | TE | TF | | | | | | |
| 107 | 31,5-112 | 100m6 | 105,9 | 28 | 110 | M24 | 50 | 28j6 | 30,9 | 8 | 50 | M10 | 22 | 15 | 212 | 817 | 305 | 233 | 334 |
| | 24j6 | | | | | | | 26,9 | M8 | | | 19 | | | | | | | |
| 117 | 31,5-112 | 110m6 | 115,9 | 28 | 140 | M24 | 50 | 30j6 | 32,9 | 8 | 53 | M10 | 22 | 19 | 236 | 917 | 365 | 257 | 476 |
| | 25j6 | | | | | | | 27,9 | M10 | | | 22 | | | | | | | |
| 127 | 31,5-112 | 120m6 | 126,9 | 32 | 140 | M24 | 50 | 35k6 | 37,9 | 10 | 70 | M12 | 28 | 19 | 265 | 1007 | 381 | 298 | 628 |
| | 25j6 | | | | | | | 27,9 | 8 | 67 | M10 | 22 | | | | | | | |
| 137 | 31,5-112 | 130m6 | 136,8 | 32 | 180 | M24 | 50 | 35k6 | 37,9 | 10 | 65 | M12 | 28 | 24 | 280 | 1101 | 432 | 316 | 816 |
| | 25j6 | | | | | | | 27,9 | 8 | M10 | | 22 | | | | | | | |
| 147 | 31,5-112 | 140m6 | 147,8 | 36 | 180 | M30 | 60 | 45k6 | 48,4 | 14 | 90 | M16 | 36 | 24 | 315 | 1222 | 440 | 352 | 1007 |
| | 30j6 | | | | | | | 32,9 | 8 | M10 | | 22 | | | | | | | |
| 157 | 31,5-112 | 160m6 | 168,8 | 40 | 180 | M30 | 60 | 48k6 | 51,4 | 14 | 100 | M16 | 36 | 28 | 335 | 1339 | 471 | 372 | 1432 |
| | 35k6 | | | | | | | 37,9 | 10 | M12 | | 28 | | | | | | | |
| 167 | 31,5-112 | 180m6 | 189,8 | 45 | 200 | M30 | 60 | 55m6 | 58,9 | 16 | 100 | M20 | 42 | 35 | 375 | 1521 | 563 | 404 | 1999 |
| | 42k6 | | | | | | | 44,9 | 12 | M16 | | 36 | | | | | | | |
| 177 | 28,0-100 | 195m6 | 204,8 | 45 | 250 | M30 | 60 | 65m6 | 68,8 | 18 | 120 | M20 | 42 | 35 | 450 | 1815 | 612 | 466 | 2874 |
| | 50k6 | | | | | | | 53,4 | 14 | M16 | | 36 | | | | | | | |
| 187 | 31,5-112 | 195m6 | 204,8 | 45 | 250 | M30 | 60 | 65m6 | 68,8 | 18 | 120 | M20 | 42 | 35 | 450 | 1815 | 612 | 466 | 2934 |
| | 50k6 | | | | | | | 53,4 | 14 | M16 | | 36 | | | | | | | |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

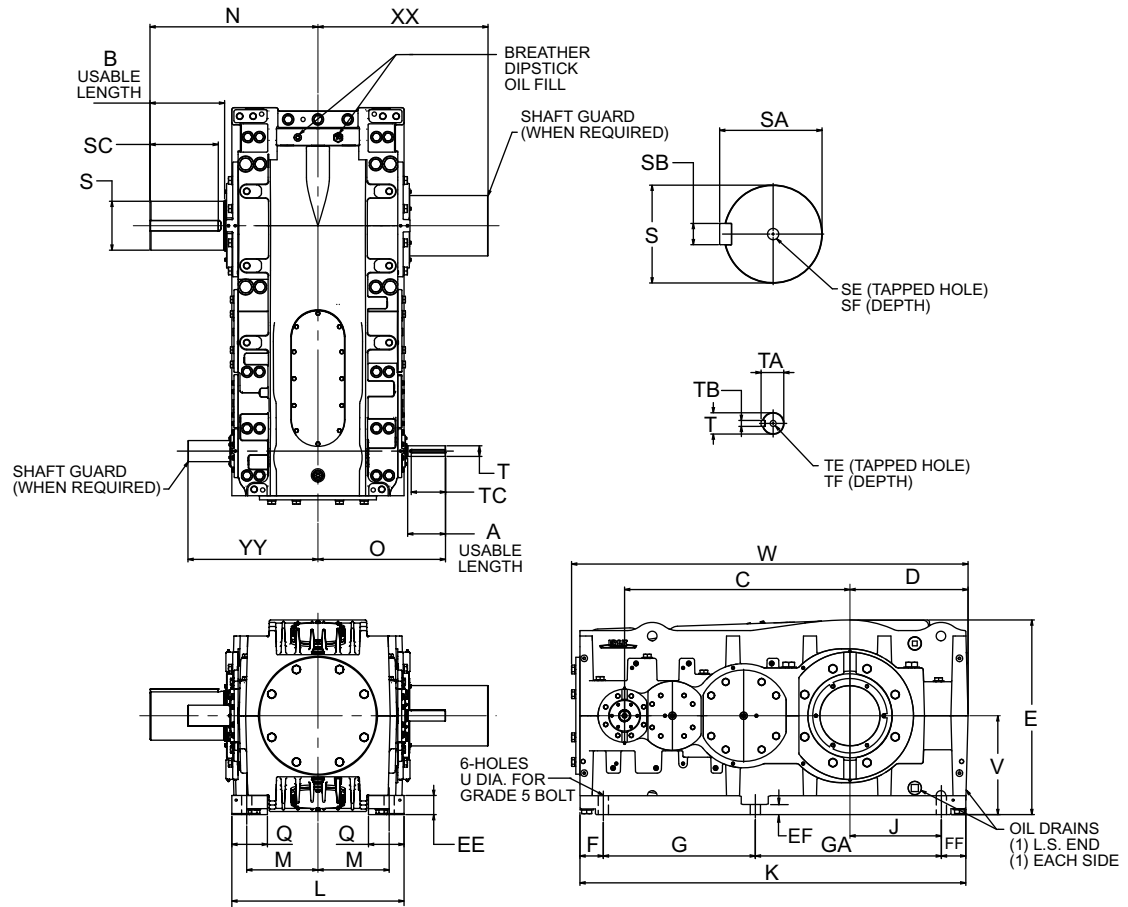
† Key Sizes per ISO/R73-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

● Single low-speed shaft extension is standard; double extension is special.

Type VPC3 Triple Reduction Solid Low-Speed Shaft, Base Drive

Sizes 197 – 227/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | B | C | D | E | EE | EF | F | FF | G | GA | J | K | L | M | N• | O | Q |
|-------------|----------|-----|-----|------|-----|------|-----|----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-------|
| 197 | 28,0-140 | 170 | 350 | 1020 | 596 | 916 | 90 | 55 | 109 | 115 | 715 | 875 | 470 | 1814 | 810 | 335 | 790 | 600 | 167,3 |
| 207 | 31,5-160 | 170 | 350 | 1060 | 556 | 916 | 90 | 55 | 109 | 115 | 715 | 875 | 430 | 1814 | 810 | 335 | 790 | 600 | 167,3 |
| 217 | 28,0-140 | 200 | 410 | 1190 | 700 | 1084 | 115 | 75 | 134 | 157 | 830 | 1005 | 530 | 2126 | 900 | 375 | 895 | 675 | 172,8 |
| 227 | 31,5-160 | 200 | 410 | 1240 | 650 | 1084 | 115 | 75 | 134 | 157 | 830 | 1005 | 480 | 2126 | 900 | 375 | 895 | 675 | 172,8 |

| DRIVE SIZE★ | Ratios | Low-Speed Shaft† | | | | | | High-Speed Shaft† | | | | | | U | V | W | XX | YY | Approx. Wt. kg. |
|-------------|----------|------------------|-------|----|-----|-----|----|-------------------|------|-----|-----|-----|----|----|-----|------|-----|-----|-----------------|
| | | S* | SA | SB | SC | SE | SF | T* | TA | TB | TC | TE | TF | | | | | | |
| 197 | 28,0-100 | 230m6 | 240,8 | 50 | 320 | M30 | 60 | 70m6 | 74,4 | 20 | 160 | M20 | 42 | 48 | 465 | 1865 | 800 | 611 | 4633 |
| | 50k6 | | | | | | | 53,4 | 14 | M16 | | 36 | | | | | | | |
| 207 | 31,5-112 | 230m6 | 240,8 | 50 | 320 | M30 | 60 | 70m6 | 74,4 | 20 | 160 | M20 | 42 | 48 | 465 | 1865 | 800 | 611 | 4826 |
| | 50k6 | | | | | | | 53,4 | 14 | M16 | | 36 | | | | | | | |
| 217 | 28,0-100 | 270m6 | 281,8 | 63 | 360 | M30 | 60 | 90m6 | 94,9 | 25 | 180 | M24 | 50 | 55 | 550 | 2179 | 907 | 685 | 6564 |
| | 65m6 | | | | | | | 68,9 | 18 | M20 | | 42 | | | | | | | |
| 227 | 31,5-112 | 270m6 | 281,8 | 63 | 360 | M30 | 60 | 90m6 | 94,9 | 25 | 180 | M24 | 50 | 55 | 550 | 2179 | 907 | 685 | 6904 |
| | 65m6 | | | | | | | 68,9 | 18 | M20 | | 42 | | | | | | | |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

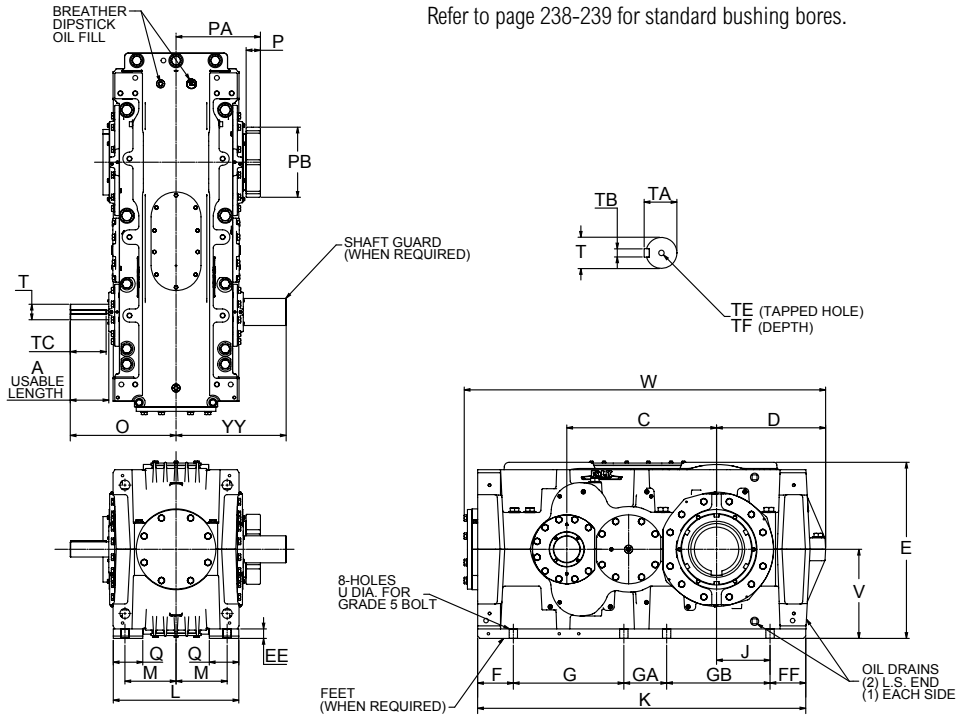
† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

● Single low-speed shaft extension is standard; double extension is special.

Type VPT2 Double Reduction Hollow Low-Speed Shaft with Taper Bushing

Sizes 133 – 173/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | C | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PA | PB | Q |
|-------------|-----------|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|-----|-----|-----|-------|
| 133 | 5,60-28,0 | 100 | 430 | 332 | 552 | 35 | 123,4 | 117,3 | 298,0 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 332 | 57 | 303 | 240 | 112,7 |
| 143 | 5,60-28,0 | 125 | 485 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 364 | 57 | 300 | 260 | 108,0 |
| 153 | 5,60-28,0 | 130 | 560 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 395 | 59 | 335 | 280 | 114,0 |
| 163 | 5,60-28,0 | 155 | 630 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 445 | 60 | 355 | 295 | 124,0 |
| 173 | 5,00-25,0 | 160 | 700 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 475 | ... | 331 | 279 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | V | W | YY | Approx. Wt. kg. |
|-------------|-----------|-------------------|------|----|-----|-----|----|----|-----|------|-----|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | |
| 133 | 5,60-20,0 | 56m6 | 59,9 | 16 | 100 | M20 | 42 | 24 | 280 | 1101 | 342 | 734 |
| | 22,4-28,0 | 42k6 | 44,9 | 12 | | M16 | 36 | | | | | |
| 143 | 5,60-20,0 | 65m6 | 68,8 | 18 | 115 | M20 | 42 | 24 | 315 | 1222 | 376 | 968 |
| | 22,4-28,0 | 45k6 | 48,4 | 14 | | M16 | 36 | | | | | |
| 153 | 5,60-20,0 | 75m6 | 79,3 | 20 | 125 | M20 | 42 | 28 | 335 | 1339 | 413 | 1310 |
| | 22,4-28,0 | 55m6 | 58,9 | 16 | | | | | | | | |
| 163 | 5,60-20,0 | 85m6 | 89,8 | 22 | 150 | M20 | 42 | 35 | 375 | 1521 | 463 | 1809 |
| | 22,4-28,0 | 65m6 | 68,8 | 18 | | | | | | | | |
| 173 | 5,00-18,0 | 95m6 | 99,8 | 25 | 155 | M24 | 50 | 35 | 450 | 1815 | 491 | 2697 |
| | 20,0-25,0 | 75m6 | 79,3 | 20 | | M20 | 42 | | | | | |

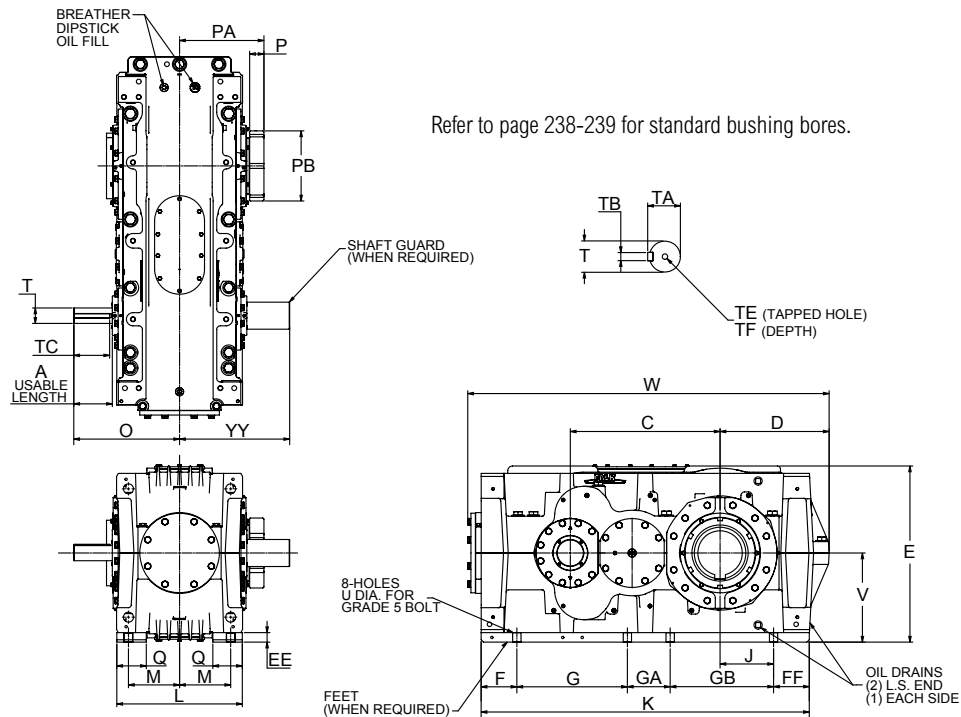
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

Type VPT2 Double Reduction Hollow Low-Speed Shaft with Taper Bushing

Sizes 145 – 175/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | C | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PA | PB | Q |
|-------------|-----------|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|-----|-----|-----|-------|
| 145 | 5,60-28,0 | 125 | 485 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 364 | 57 | 300 | 260 | 108,0 |
| 155 | 5,60-28,0 | 130 | 560 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 395 | 59 | 335 | 280 | 114,0 |
| 165 | 5,60-28,0 | 155 | 630 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 445 | 60 | 355 | 295 | 124,0 |
| 175 | 5,00-25,0 | 160 | 700 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 475 | ... | 331 | 279 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | V | W | YY | Approx. Wt. kg. |
|-------------|-----------|-------------------|------|----|-----|-----|----|----|-----|------|-----|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | |
| 145 | 5,60-20,0 | 65m6 | 68,8 | 18 | 115 | M20 | 42 | 24 | 315 | 1222 | 376 | 968 |
| | 22,4-28,0 | 45k6 | 48,4 | 14 | | M16 | 36 | | | | | |
| 155 | 5,60-20,0 | 75m6 | 79,3 | 20 | 125 | M20 | 42 | 28 | 335 | 1339 | 413 | 1310 |
| | 22,4-28,0 | 55m6 | 58,9 | 16 | | | | | | | | |
| 165 | 5,60-20,0 | 85m6 | 89,8 | 22 | 150 | M20 | 42 | 35 | 375 | 1521 | 463 | 1809 |
| | 22,4-28,0 | 65m6 | 68,8 | 18 | | | | | | | | |
| 175 | 5,00-18,0 | 95m6 | 99,8 | 25 | 155 | M24 | 50 | 35 | 450 | 1815 | 491 | 2697 |
| | 20,0-25,0 | 75m6 | 79,3 | 20 | | M20 | 42 | | | | | |

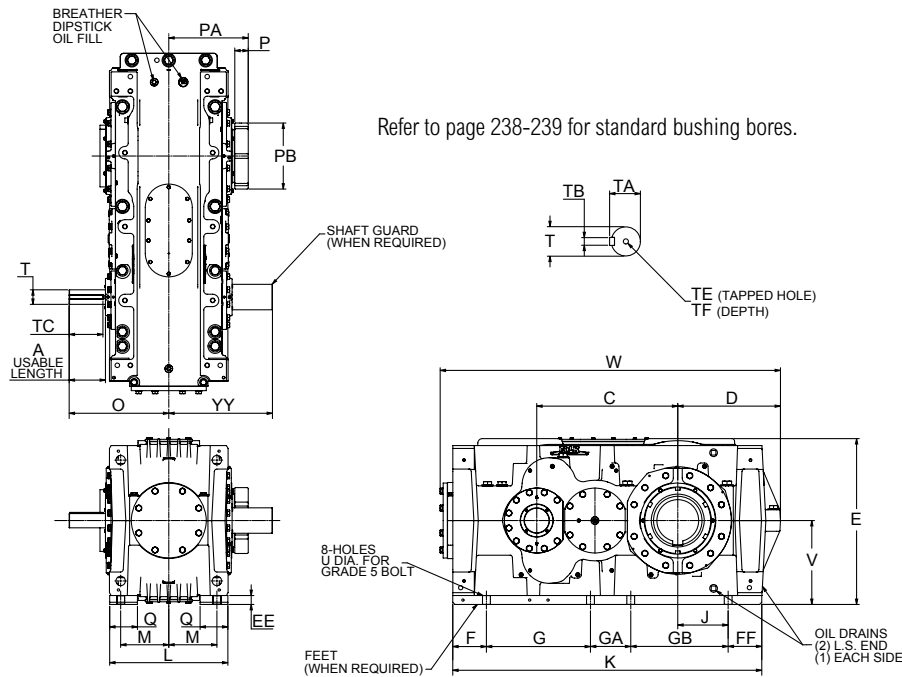
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

Type VPT2 Double Reduction Hollow Low-Speed Shaft with Taper Bushing

Sizes 107 – 187/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | C | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PA | PB | Q |
|-------------|-----------|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|-----|-----|-----|-------|
| 107 | 5,60-28,0 | 100 | 300 | 261 | 419 | 25 | 111,0 | 111,0 | 200,0 | 100 | 200,0 | 100 | 722,0 | 322 | 125,0 | 275 | 56 | 242 | 185 | 78,0 |
| 117 | 5,60-28,0 | 100 | 340 | 286 | 464 | 25 | 115,0 | 115,0 | 230,0 | 120 | 230,0 | 120 | 810,0 | 364 | 150,0 | 300 | 56 | 267 | 205 | 92,0 |
| 137 | 5,60-28,0 | 100 | 385 | 305 | 522 | 25 | 120,0 | 105,0 | 270,0 | 150 | 253,0 | 144 | 898,0 | 410 | 165,0 | 318 | 56 | 278 | 225 | 101,6 |
| 137 | 5,60-28,0 | 100 | 430 | 332 | 552 | 35 | 123,4 | 117,3 | 297,5 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 332 | 57 | 303 | 240 | 112,7 |
| 147 | 5,60-28,0 | 125 | 485 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 364 | 57 | 300 | 260 | 108,0 |
| 157 | 5,60-28,0 | 130 | 560 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 395 | 59 | 335 | 280 | 114,0 |
| 167 | 5,60-28,0 | 155 | 630 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 445 | 60 | 355 | 295 | 124,0 |
| 177 | 5,00-25,0 | 160 | 700 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 475 | ... | 331 | 279 | 150,0 |
| 187 | 5,60-28,0 | 160 | 725 | 559 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 290 | 1633,5 | 588 | 245,0 | 475 | ... | 331 | 279 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | V | W | YY | Approx. Wt. kg. |
|-------------|-----------|-------------------|------|----|-----|-----|----|----|-----|------|-----|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | |
| 107 | 5,60-20,0 | 42k6 | 44,9 | 12 | 100 | M16 | 36 | 15 | 212 | 817 | 282 | 293 |
| | 22,4-28,0 | 28j6 | 30,9 | 8 | | M10 | 22 | | | | | |
| 117 | 5,60-20,0 | 42k6 | 44,9 | 12 | 100 | M16 | 36 | 19 | 236 | 917 | 308 | 415 |
| | 22,4-28,0 | 35k6 | 37,9 | 10 | | M12 | 28 | | | | | |
| 127 | 5,60-20,0 | 52m6 | 55,9 | 16 | 100 | M20 | 42 | 19 | 265 | 1007 | 327 | 575 |
| | 22,4-28,0 | 35k6 | 37,9 | 10 | | M12 | 28 | | | | | |
| 137 | 5,60-20,0 | 56m6 | 59,9 | 16 | 100 | M20 | 42 | 24 | 280 | 1101 | 343 | 734 |
| | 22,4-28,0 | 42k6 | 44,9 | 12 | | M16 | 36 | | | | | |
| 147 | 5,60-20,0 | 65m6 | 68,8 | 18 | 115 | M20 | 42 | 24 | 315 | 1222 | 376 | 968 |
| | 22,4-28,0 | 45k6 | 48,4 | 14 | | M16 | 36 | | | | | |
| 157 | 5,60-20,0 | 75m6 | 79,3 | 20 | 125 | M20 | 42 | 28 | 335 | 1339 | 422 | 1310 |
| | 22,4-28,0 | 55m6 | 58,9 | 16 | | M20 | 42 | | | | | |
| 167 | 5,60-20,0 | 85m6 | 89,8 | 22 | 150 | M20 | 42 | 35 | 375 | 1521 | 463 | 1809 |
| | 22,4-28,0 | 65m6 | 68,8 | 18 | | M20 | 42 | | | | | |
| 177 | 5,00-18,0 | 95m6 | 99,8 | 25 | 155 | M24 | 50 | 35 | 450 | 1815 | 491 | 2697 |
| | 20,0-25,0 | 75m6 | 79,3 | 20 | | M20 | 42 | | | | | |
| 187 | 5,60-20,0 | 95m6 | 99,8 | 25 | 155 | M24 | 50 | 35 | 450 | 1815 | 491 | 2697 |
| | 22,4-28,0 | 75m6 | 79,3 | 20 | | M20 | 42 | | | | | |

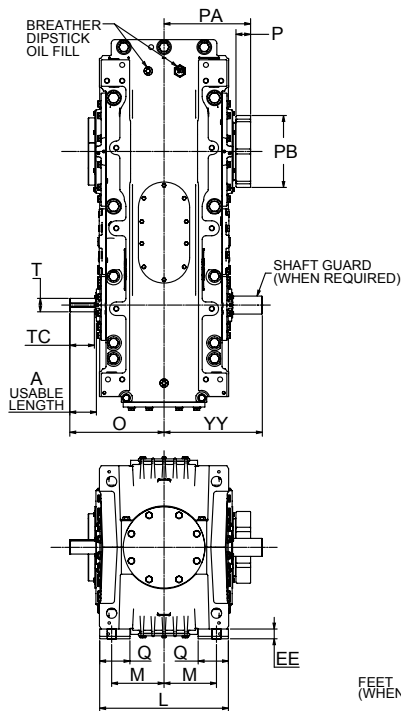
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R73-1969, Form B. Tapped center hole to DIN 332, threads 6H.

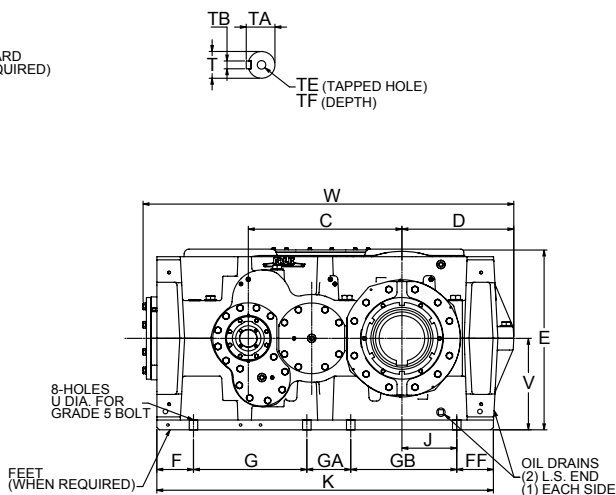
* See table 1 on page 98 for tolerance

Type VPT3 Triple Reduction Hollow Low-Speed Shaft with Taper Bushing

Sizes 133 – 173/Dimensions — Millimeters



Refer to page 238-239 for standard bushing bores.



| DRIVE SIZE★ | Ratios | A | C | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PA | PB | Q |
|-------------|----------|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|-----|-----|-----|-------|
| 133 | 31,5-160 | 70 | 430 | 332 | 552 | 35 | 123,4 | 117,3 | 297,5 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 302 | 57 | 303 | 240 | 112,7 |
| 143 | 31,5-160 | 100 | 485 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 334 | 57 | 300 | 260 | 108,0 |
| 153 | 31,5-160 | 100 | 560 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 365 | 59 | 335 | 280 | 114,0 |
| 163 | 31,5-160 | 100 | 630 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 387 | 60 | 355 | 295 | 124,0 |
| 173 | 28,0-140 | 130 | 700 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 445 | ... | 331 | 279 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | V | W | YY | Approx. Wt. kg. |
|-------------|----------|-------------------|------|----|-----|-----|----|----|-----|------|-----|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | |
| 133 | 31,5-112 | 35k6 | 37,9 | 10 | 65 | M12 | 28 | 24 | 280 | 1101 | 316 | 754 |
| | 125-160 | 25j6 | 27,9 | 8 | | M10 | 22 | | | | | |
| 143 | 31,5-112 | 45k6 | 48,4 | 14 | 90 | M16 | 36 | 24 | 315 | 1222 | 353 | 934 |
| | 125-160 | 30j6 | 32,9 | 8 | | M10 | 22 | | | | | |
| 153 | 31,5-112 | 48k6 | 51,4 | 14 | 100 | M16 | 36 | 28 | 335 | 1339 | 373 | 1329 |
| | 125-160 | 35k6 | 37,9 | 10 | | M12 | 28 | | | | | |
| 163 | 31,5-112 | 55m6 | 58,9 | 16 | 100 | M20 | 42 | 35 | 375 | 1521 | 403 | 1843 |
| | 125-160 | 42k6 | 44,9 | 12 | | M16 | 36 | | | | | |
| 173 | 28,0-100 | 65m6 | 68,8 | 18 | 120 | M20 | 42 | 35 | 450 | 1815 | 466 | 2688 |
| | 112-140 | 50k6 | 53,4 | 14 | | M16 | 36 | | | | | |

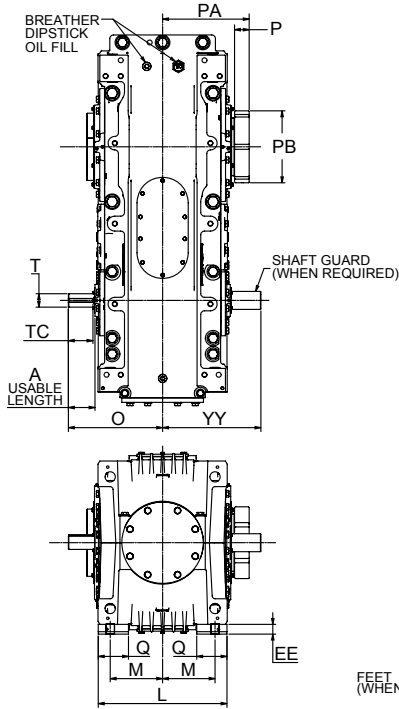
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

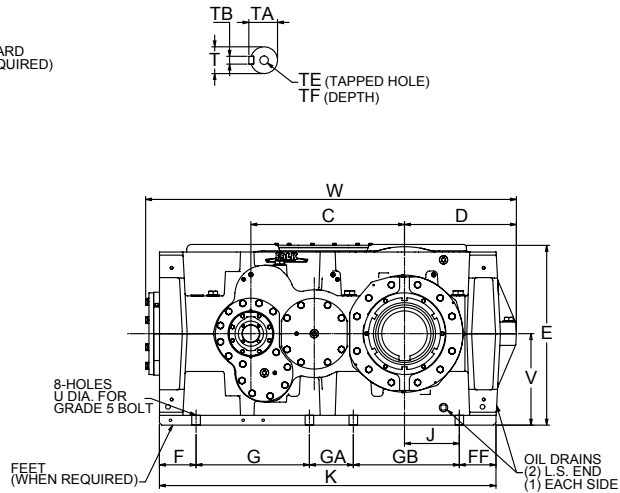
* See table 1 on page 98 for tolerance

Type VPT3 Triple Reduction Hollow Low-Speed Shaft with Taper Bushing

Sizes 145 – 175/Dimensions — Millimeters



Refer to page 238-239 for standard bushing bores.



| DRIVE SIZE★ | Ratios | A | C | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PA | PB | Q |
|-------------|----------|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|-----|-----|-----|-------|
| 145 | 31,5-160 | 100 | 485 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 334 | 57 | 300 | 260 | 108,0 |
| 155 | 31,5-160 | 100 | 560 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 365 | 59 | 335 | 280 | 114,0 |
| 165 | 31,5-160 | 100 | 630 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 387 | 60 | 355 | 295 | 124,0 |
| 175 | 28,0-140 | 130 | 700 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 445 | ... | 331 | 279 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | V | W | YY | Approx. Wt. kg. |
|-------------|----------|-------------------|------|----|-----|-----|----|----|-----|------|-----|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | |
| 145 | 31,5-112 | 45k6 | 48,4 | 14 | 90 | M16 | 36 | 24 | 315 | 1222 | 353 | 934 |
| | 125-160 | 30j6 | 32,9 | 8 | | M10 | 22 | | | | | |
| 155 | 31,5-112 | 48k6 | 51,4 | 14 | 100 | M16 | 36 | 28 | 335 | 1339 | 373 | 1329 |
| | 125-160 | 35k6 | 37,9 | 10 | | M12 | 28 | | | | | |
| 165 | 31,5-112 | 55m6 | 58,9 | 16 | 100 | M20 | 42 | 35 | 375 | 1521 | 403 | 1843 |
| | 125-160 | 42k6 | 44,9 | 12 | | M16 | 36 | | | | | |
| 175 | 28,0-100 | 65m6 | 68,8 | 18 | 120 | M20 | 42 | 35 | 450 | 1815 | 466 | 2688 |
| | 112-140 | 50k6 | 53,4 | 14 | | M16 | 36 | | | | | |

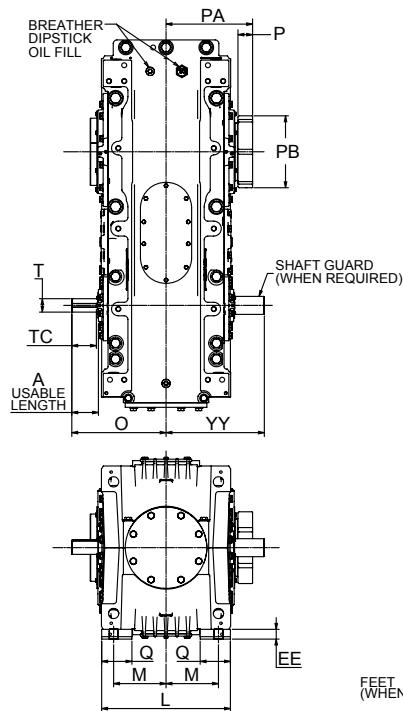
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

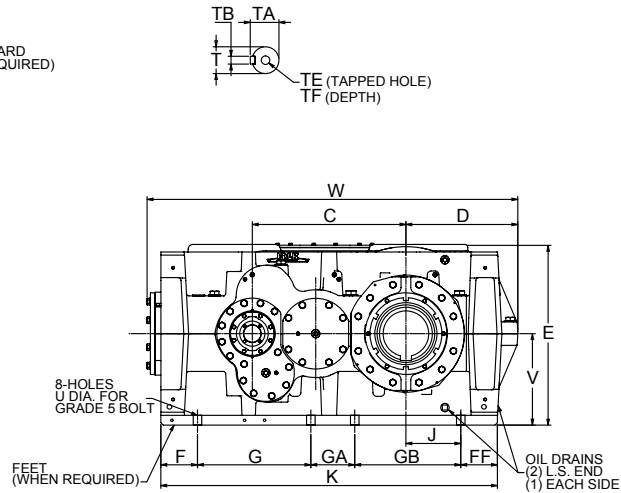
* See table 1 on page 98 for tolerance

Type VPT3 Triple Reduction Hollow Low-Speed Shaft with Taper Bushing

Sizes 107 – 187/Dimensions — Millimeters



Refer to page 238-239 for standard bushing bores.



| DRIVE SIZE★ | Ratios | A | C | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PA | PB | Q |
|-------------|----------|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|-----|-----|-----|-------|
| 107 | 31,5-160 | 56 | 300 | 261 | 419 | 25 | 111,0 | 111,0 | 200,0 | 100 | 200,0 | 100 | 722,0 | 322 | 125,0 | 225 | 56 | 242 | 185 | 78,0 |
| 117 | 31,5-160 | 56 | 340 | 286 | 464 | 25 | 115,0 | 115,0 | 230,0 | 120 | 230,0 | 120 | 810,0 | 364 | 150,0 | 249 | 56 | 267 | 205 | 92,0 |
| 127 | 31,5-160 | 75 | 385 | 305 | 522 | 25 | 120,0 | 105,0 | 270,0 | 150 | 253,0 | 144 | 898,0 | 410 | 165,0 | 288 | 56 | 278 | 225 | 101,6 |
| 137 | 31,5-160 | 70 | 430 | 332 | 552 | 35 | 123,4 | 117,3 | 297,5 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 302 | 57 | 303 | 240 | 112,7 |
| 147 | 31,5-160 | 100 | 485 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 334 | 57 | 300 | 260 | 108,0 |
| 157 | 31,5-160 | 100 | 560 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 365 | 59 | 335 | 280 | 114,0 |
| 167 | 31,5-160 | 100 | 630 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 387 | 60 | 355 | 295 | 124,0 |
| 177 | 28,0-140 | 130 | 700 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 445 | ... | 331 | 279 | 150,0 |
| 187 | 31,5-160 | 130 | 725 | 559 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 290 | 1633,5 | 588 | 245,0 | 445 | ... | 331 | 279 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | V | W | YY | Approx. Wt. kg. |
|-------------|----------|-------------------|------|----|-----|-----|----|----|-----|------|-----|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | |
| 107 | 31,5-112 | 28j6 | 30,9 | 8 | 50 | M10 | 22 | 15 | 212 | 817 | 233 | 298 |
| | 125-160 | 24j6 | 26,9 | | | M8 | 19 | | | | | |
| 117 | 31,5-112 | 30j6 | 32,9 | 8 | 53 | M10 | 22 | 19 | 236 | 917 | 257 | 420 |
| | 125-160 | 25j6 | 27,9 | | | M10 | 22 | | | | | |
| 127 | 31,5-112 | 35k6 | 37,9 | 10 | 70 | M12 | 28 | 19 | 265 | 1007 | 298 | 586 |
| | 125-160 | 25j6 | 27,9 | | | M10 | 22 | | | | | |
| 137 | 31,5-112 | 35k6 | 37,9 | 10 | 65 | M12 | 28 | 24 | 280 | 1101 | 316 | 754 |
| | 125-160 | 25j6 | 27,9 | | | M10 | 22 | | | | | |
| 147 | 31,5-112 | 45k6 | 48,4 | 14 | 90 | M16 | 36 | 24 | 315 | 1222 | 352 | 934 |
| | 125-160 | 30j6 | 32,9 | | | M10 | 22 | | | | | |
| 157 | 31,5-112 | 48k6 | 51,4 | 14 | 100 | M16 | 36 | 28 | 335 | 1339 | 372 | 1329 |
| | 125-160 | 35k6 | 37,9 | | | M12 | 28 | | | | | |
| 167 | 31,5-112 | 55m6 | 58,9 | 16 | 100 | M20 | 42 | 35 | 375 | 1521 | 404 | 1843 |
| | 125-160 | 42k6 | 44,9 | | | M16 | 36 | | | | | |
| 177 | 28,0-100 | 65m6 | 68,8 | 18 | 120 | M20 | 42 | 35 | 450 | 1815 | 466 | 2688 |
| | 112-140 | 50k6 | 53,4 | | | M16 | 36 | | | | | |
| 187 | 31,5-112 | 65m6 | 68,8 | 18 | 120 | M20 | 42 | 35 | 450 | 1815 | 466 | 2750 |
| | 125-160 | 50k6 | 53,4 | | | M16 | 36 | | | | | |

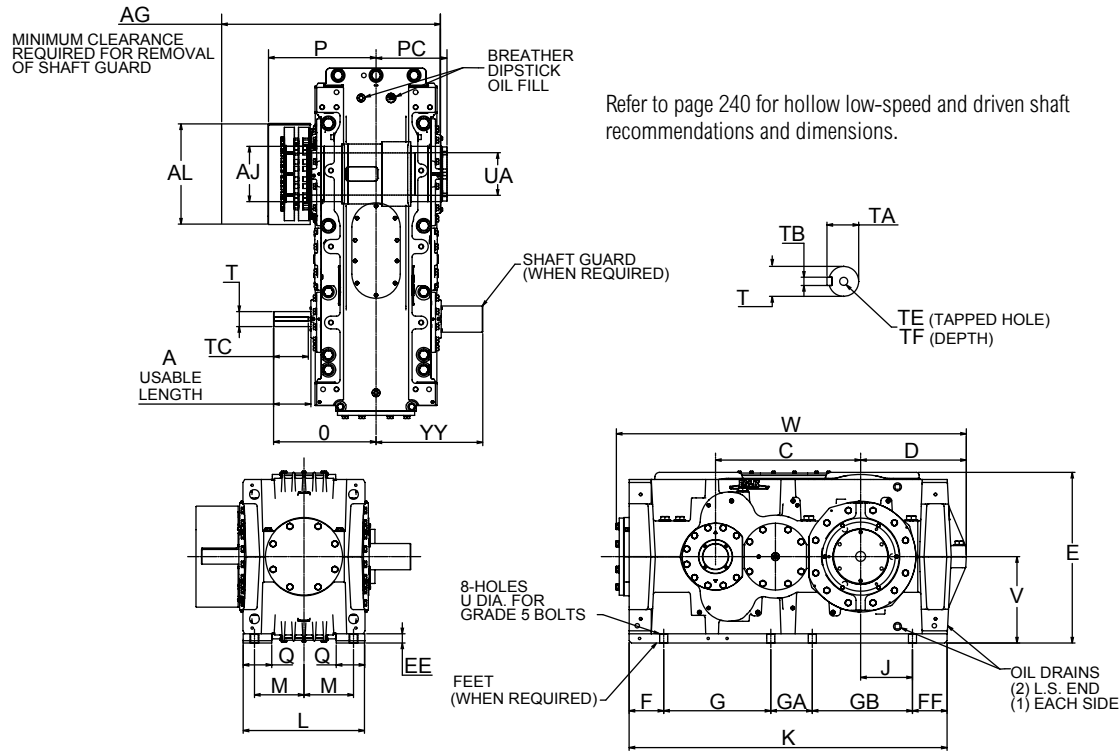
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

Type VPJ2 Double Reduction Hollow Low-Speed Shaft with Shrink Disc

Sizes 133 – 173/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | AG | AJ* | AL | C | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PC | Q |
|-------------|-----------|-----|------|--------|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|-----|-----|-------|
| 133 | 5,60-28,0 | 100 | 763 | 135 J7 | 342 | 430 | 332 | 552 | 35 | 123,4 | 117,3 | 298,0 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 332 | 348 | 216 | 112,7 |
| 143 | 5,60-28,0 | 125 | 808 | 150 J7 | 384 | 485 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 364 | 389 | 237 | 108,0 |
| 153 | 5,60-28,0 | 130 | 876 | 165 J7 | 404 | 560 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 395 | 428 | 247 | 114,0 |
| 163 | 5,60-28,0 | 155 | 933 | 180 J7 | 439 | 630 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 445 | 469 | 288 | 124,0 |
| 173 | 5,00-25,0 | 160 | 1034 | 200 J7 | 475 | 700 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 475 | 518 | 317 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | YY | Approx. Wt. kg. |
|-------------|-----------|-------------------|------|----|-----|-----|----|----|--------|-----|------|-----|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | | |
| 133 | 5,60-20,0 | 56m6 | 59,9 | 16 | 100 | M20 | 42 | 24 | 140 H7 | 280 | 1101 | 342 | 734 |
| | 22,4-28,0 | 42k6 | 44,9 | 12 | | M16 | 36 | | | | | | |
| 143 | 5,60-20,0 | 65m6 | 68,8 | 18 | 115 | M20 | 42 | 24 | 155 H7 | 315 | 1222 | 376 | 968 |
| | 22,4-28,0 | 45k6 | 48,4 | 14 | | M16 | 36 | | | | | | |
| 153 | 5,60-20,0 | 75m6 | 79,3 | 20 | 125 | M20 | 42 | 28 | 170 H7 | 335 | 1339 | 413 | 1310 |
| | 22,4-28,0 | 55m6 | 58,9 | 16 | | M20 | 42 | | | | | | |
| 163 | 5,60-20,0 | 85m6 | 89,8 | 22 | 150 | M20 | 42 | 35 | 185 H7 | 375 | 1521 | 463 | 1809 |
| | 22,4-28,0 | 65m6 | 68,8 | 18 | | | | | | | | | |
| 173 | 5,00-18,0 | 95m6 | 99,8 | 25 | 155 | M24 | 50 | 35 | 210 H7 | 450 | 1815 | 491 | 2697 |
| | 20,0-25,0 | 75m6 | 79,3 | 20 | | M20 | 42 | | | | | | |

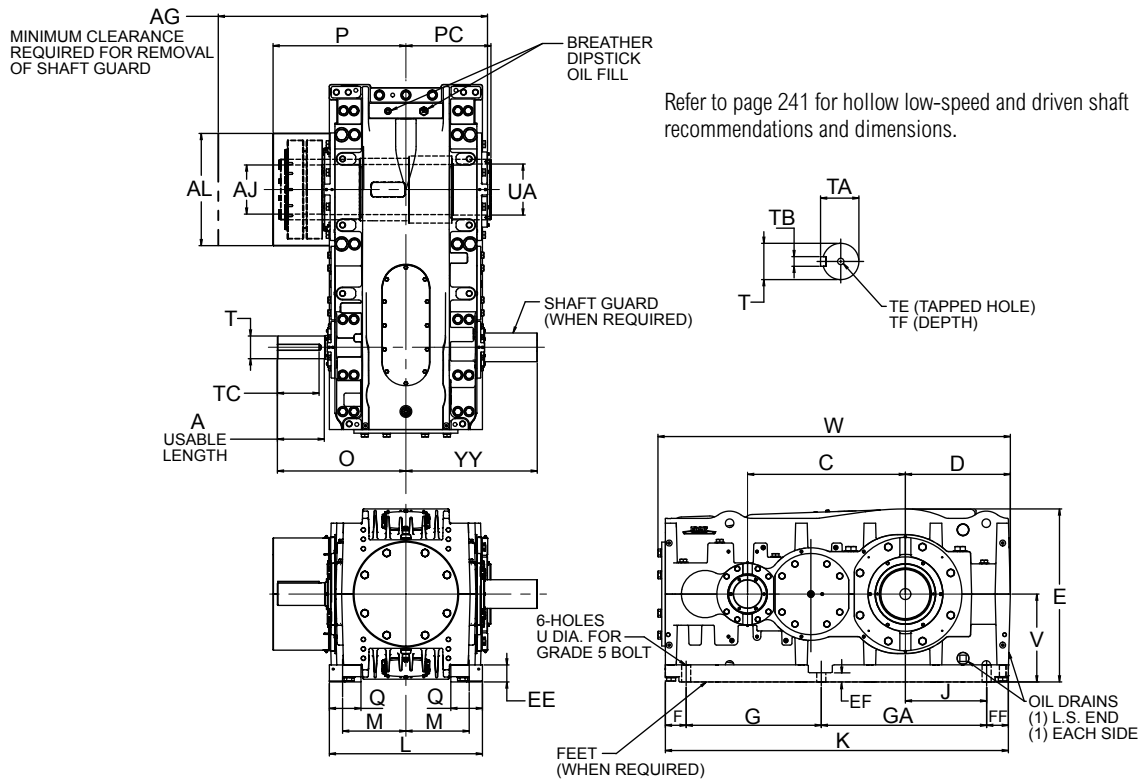
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* j6 tolerance for shaft diameters 1.2" and less, k6 tolerance for shaft diameters over 1.2" to 2.0", m6 tolerance for shaft diameters above 2.0".

* See table 1 on page 98 for tolerance

Type VPJ2 Double Reduction Hollow Low-Speed Shaft with Shrink Disc Sizes 203 – 223/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | AG | AJ* | AL | C | D | E | EE | EF | F | FF | G | GA | J | K | L | M | O | P | PC | Q |
|-------------|-----------|-----|------|-------|-------|-----|-----|------|-----|----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|-------|
| 203 | 5,60-28,0 | 240 | 1429 | 260J7 | 593,8 | 835 | 556 | 916 | 90 | 55 | 109 | 115 | 715 | 875 | 430 | 1814 | 810 | 335 | 680 | 703 | 450 | 167,3 |
| 223 | 5,60-28,0 | 270 | 1608 | 310J7 | 678,8 | 980 | 650 | 1084 | 115 | 75 | 134 | 157 | 830 | 1005 | 480 | 2126 | 900 | 375 | 765 | 793 | 500 | 172,8 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | YY | Approx. Wt. kg. |
|-------------|-----------|-------------------|-------|----|-----|-----|----|----|-------|-----|------|-----|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | | |
| 203 | 5,60-20,0 | 120m6 | 126,9 | 32 | 220 | M24 | 50 | 48 | 270H7 | 465 | 1865 | 695 | 4589 |
| | 22,4-28,0 | 80m6 | 84,8 | 22 | 210 | M20 | 42 | | | | | | |
| 223 | 5,60-20,0 | 140m6 | 147,8 | 36 | 230 | M30 | 60 | 55 | 320H7 | 550 | 2179 | 777 | 6667 |
| | 22,4-28,0 | 100m6 | 105,8 | 28 | | M24 | 50 | | | | | | |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

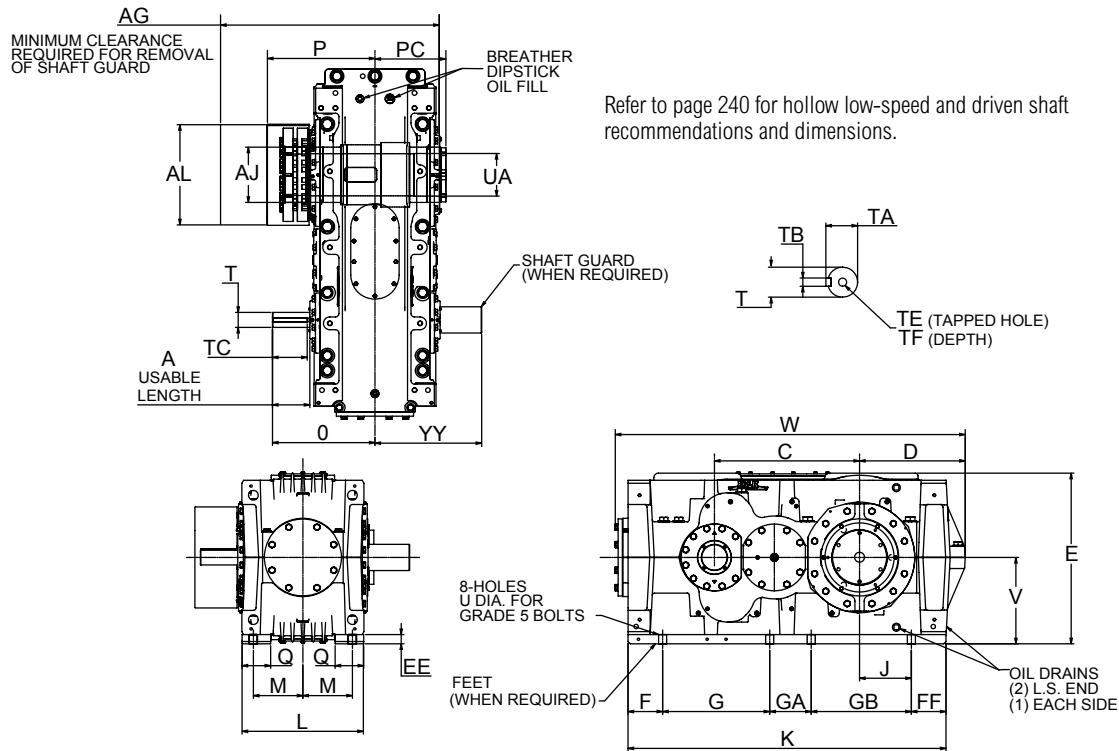
† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* j6 tolerance for shaft diameters 1.2" and less, k6 tolerance for shaft diameters over 1.2" to 2.0", m6 tolerance for shaft diameters above 2.0".

* See table 1 on page 98 for tolerance

Type VPJ2 Double Reduction Hollow Low-Speed Shaft with Shrink Disc

Sizes 145 – 175/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | AG | AJ* | AL | C | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PC | Q |
|-------------|-----------|-----|------|--------|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|-----|-----|-------|
| 145 | 5,60-28,0 | 125 | 808 | 150 J7 | 384 | 485 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 364 | 389 | 237 | 108,0 |
| 155 | 5,60-28,0 | 130 | 876 | 165 J7 | 404 | 560 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 395 | 428 | 247 | 114,0 |
| 165 | 5,60-28,0 | 155 | 933 | 180 J7 | 439 | 630 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 445 | 469 | 288 | 124,0 |
| 175 | 5,00-25,0 | 160 | 1034 | 200 J7 | 475 | 700 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 475 | 518 | 317 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | YY | Approx. Wt. kg. |
|-------------|-----------|-------------------|------|----|-----|-----|----|----|--------|-----|------|-----|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | | |
| 145 | 5,60-20,0 | 65m6 | 68,8 | 18 | 115 | M20 | 42 | 24 | 155 H7 | 315 | 1222 | 376 | 968 |
| | 22,4-28,0 | 45k6 | 48,4 | 14 | | M16 | 36 | | | | | | |
| 155 | 5,60-20,0 | 75m6 | 79,3 | 20 | 125 | M20 | 42 | 28 | 170 H7 | 335 | 1339 | 413 | 1310 |
| | 22,4-28,0 | 55m6 | 58,9 | 16 | | | | | | | | | |
| 165 | 5,60-20,0 | 85m6 | 89,8 | 22 | 150 | M20 | 42 | 35 | 185 H7 | 375 | 1521 | 463 | 1809 |
| | 22,4-28,0 | 65m6 | 68,8 | 18 | | | | | | | | | |
| 175 | 5,00-18,0 | 95m6 | 99,8 | 25 | 155 | M24 | 50 | 35 | 210 H7 | 450 | 1815 | 491 | 2697 |
| | 20,0-25,0 | 75m6 | 79,3 | 20 | | M20 | 42 | | | | | | |

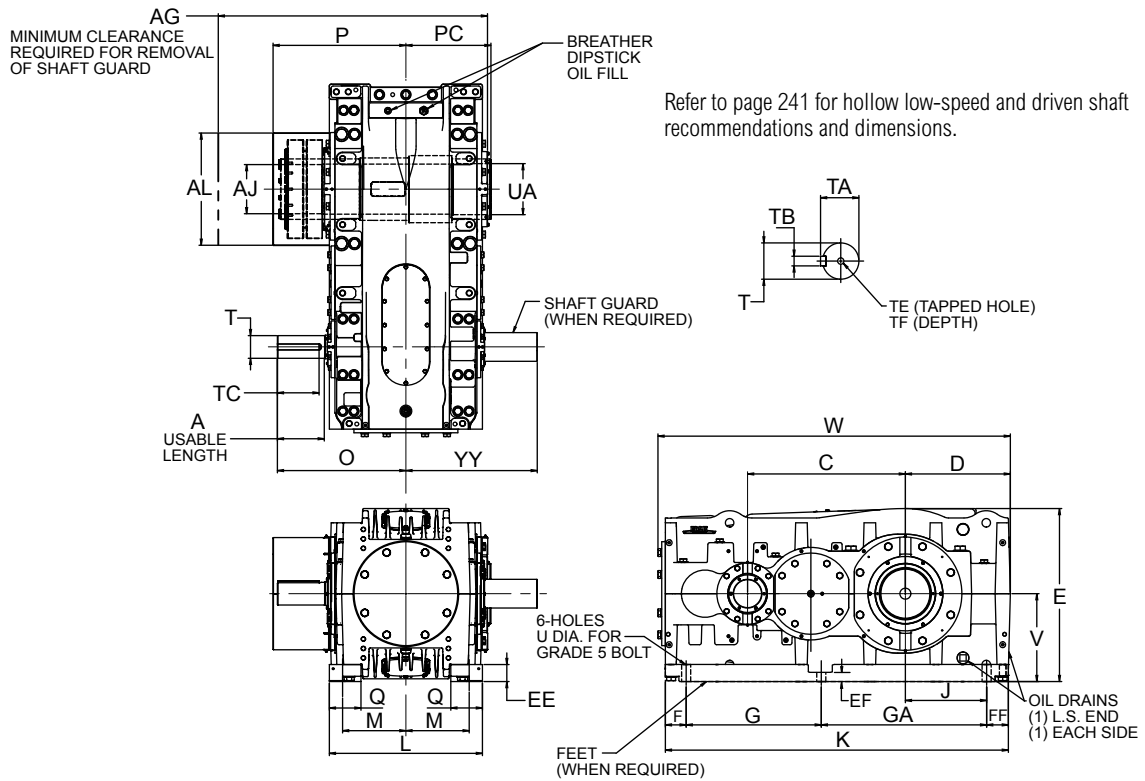
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* j6 tolerance for shaft diameters 1.2" and less, k6 tolerance for shaft diameters over 1.2" to 2.0", m6 tolerance for shaft diameters above 2.0".

* See table 1 on page 98 for tolerance

Type VPJ2 Double Reduction Hollow Low-Speed Shaft with Shrink Disc Sizes 225/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | AG | AJ* | AL | C | D | E | EE | EF | F | FF | G | GA | J | K | L | M | O | P | PC | Q |
|-------------|-----------|-----|------|-------|-------|-----|-----|------|-----|----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|-------|
| 225 | 5,60-28,0 | 270 | 1608 | 310J7 | 678,8 | 980 | 650 | 1084 | 115 | 75 | 134 | 157 | 830 | 1005 | 480 | 2126 | 900 | 375 | 765 | 793 | 500 | 172,8 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | YY | Approx. Wt. kg. |
|-------------|-----------|-------------------|-------|----|-----|-----|----|----|-------|-----|------|-----|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | | |
| 225 | 5,60-20,0 | 140m6 | 147,8 | 36 | 230 | M30 | 60 | 55 | 320H7 | 550 | 2179 | 777 | 6667 |
| | 22,4-28,0 | 100m6 | 105,8 | 28 | | M24 | 50 | | | | | | |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

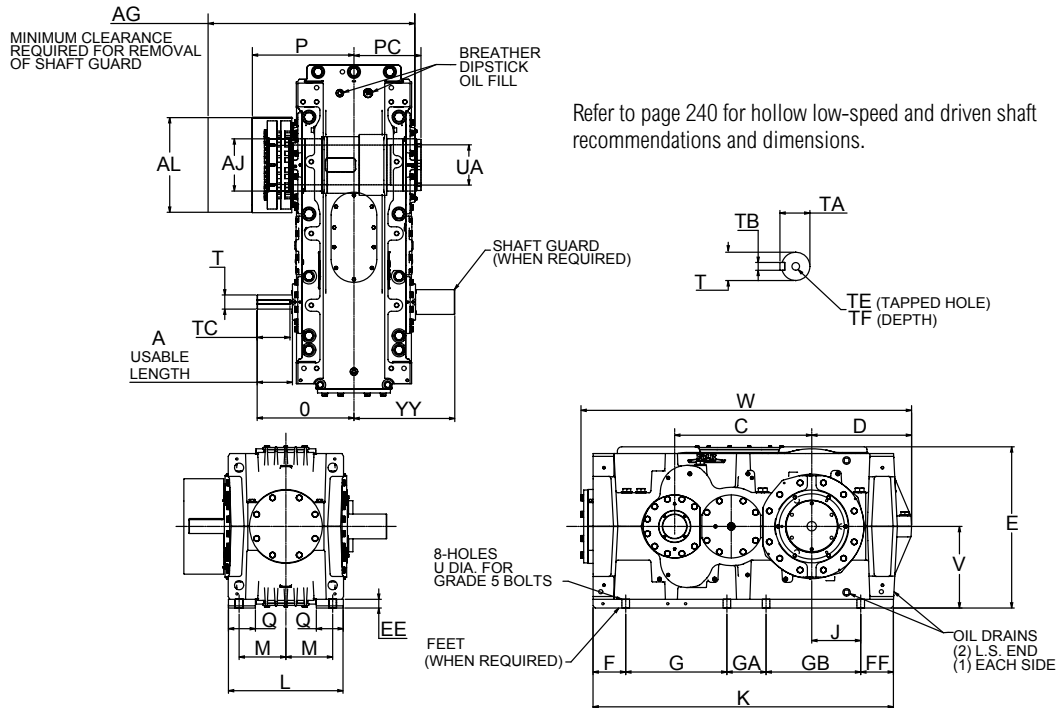
† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* j6 tolerance for shaft diameters 1.2" and less, k6 tolerance for shaft diameters over 1.2" to 2.0", m6 tolerance for shaft diameters above 2.0".

* See table 1 on page 98 for tolerance

Type VPJ2 Double Reduction Hollow Low-Speed Shaft with Shrink Disc

Sizes 107 – 187/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | AG | AJ* | AL | C | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PC | Q |
|-------------|-----------|-----|------|--------|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|-----|-----|-------|
| 107 | 5,60-28,0 | 100 | 545 | 85 J7 | 264 | 300 | 261 | 419 | 25 | 111,0 | 111,0 | 200,0 | 100 | 200,0 | 100 | 722,0 | 322 | 125,0 | 275 | 269 | 175 | 78,0 |
| 117 | 5,60-28,0 | 100 | 631 | 105 J7 | 299 | 340 | 286 | 464 | 25 | 115,0 | 115,0 | 230,0 | 120 | 230,0 | 120 | 810,0 | 364 | 150,0 | 300 | 310 | 199 | 92,0 |
| 127 | 5,60-28,0 | 100 | 673 | 125 J7 | 311 | 385 | 305 | 522 | 25 | 120,0 | 105,0 | 270,0 | 150 | 253,0 | 144 | 898,0 | 410 | 165,0 | 318 | 330 | 216 | 101,6 |
| 137 | 5,60-28,0 | 100 | 763 | 135 J7 | 342 | 430 | 332 | 552 | 35 | 123,4 | 117,3 | 297,5 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 332 | 348 | 216 | 112,7 |
| 147 | 5,60-28,0 | 125 | 808 | 150 J7 | 384 | 485 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 364 | 389 | 216 | 108,0 |
| 157 | 5,60-28,0 | 130 | 876 | 165 J7 | 404 | 560 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 395 | 428 | 247 | 114,0 |
| 167 | 5,60-28,0 | 155 | 933 | 180 J7 | 439 | 630 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 445 | 469 | 288 | 124,0 |
| 177 | 5,00-25,0 | 160 | 1034 | 200 J7 | 475 | 700 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 475 | 518 | 317 | 150,0 |
| 187 | 5,60-28,0 | 160 | 1034 | 200 J7 | 475 | 725 | 559 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 290 | 1633,5 | 588 | 245,0 | 475 | 518 | 317 | 150,0 |

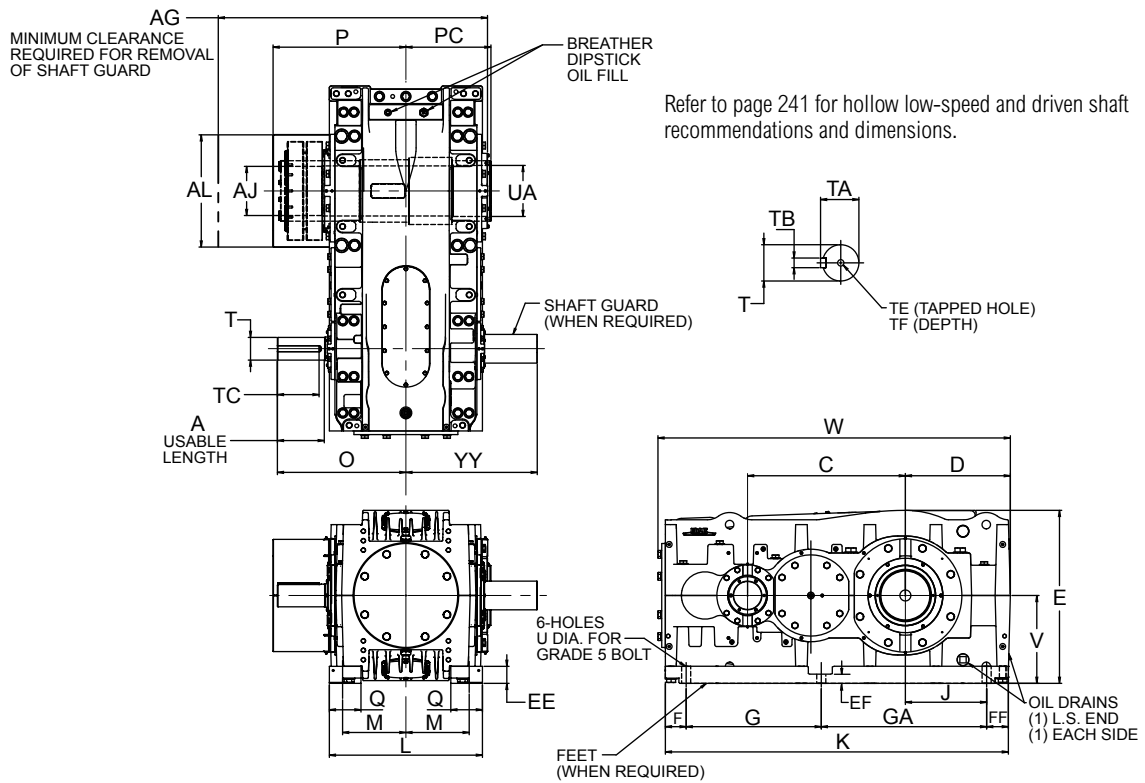
| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | YY | Approx. Wt. kg. |
|-------------|-----------|-------------------|------|----|-----|-----|----|----|--------|-----|------|-----|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | | |
| 107 | 5,60-20,0 | 42k6 | 44,9 | 12 | 100 | M16 | 36 | 15 | 90 H7 | 212 | 817 | 282 | 293 |
| | 22,4-28,0 | 28j6 | 30,9 | 8 | | M10 | 22 | | | | | | |
| 117 | 5,60-20,0 | 42k6 | 44,9 | 12 | 100 | M16 | 36 | 19 | 110 H7 | 236 | 917 | 308 | 415 |
| | 22,4-28,0 | 35k6 | 37,9 | 10 | | M12 | 28 | | | | | | |
| 127 | 5,60-20,0 | 52m6 | 55,9 | 16 | 100 | M20 | 42 | 19 | 130 H7 | 265 | 1007 | 327 | 575 |
| | 22,4-28,0 | 35k6 | 37,9 | 10 | | M12 | 28 | | | | | | |
| 137 | 5,60-20,0 | 56m6 | 59,9 | 16 | 100 | M20 | 42 | 24 | 140 H7 | 280 | 1101 | 343 | 734 |
| | 22,4-28,0 | 42k6 | 44,9 | 12 | | M16 | 36 | | | | | | |
| 147 | 5,60-20,0 | 65m6 | 68,8 | 18 | 115 | M20 | 42 | 24 | 155 H7 | 315 | 1222 | 376 | 968 |
| | 22,4-28,0 | 45k6 | 48,4 | 14 | | M16 | 36 | | | | | | |
| 157 | 5,60-20,0 | 75m6 | 79,3 | 20 | 125 | M20 | 42 | 28 | 170 H7 | 335 | 1339 | 422 | 1310 |
| | 22,4-28,0 | 55m6 | 58,9 | 16 | | M20 | 42 | | | | | | |
| 167 | 5,60-20,0 | 85m6 | 89,8 | 22 | 150 | M20 | 42 | 35 | 185 H7 | 375 | 1521 | 463 | 1809 |
| | 22,4-28,0 | 65m6 | 68,8 | 18 | | M20 | 42 | | | | | | |
| 177 | 5,00-18,0 | 95m6 | 99,8 | 25 | 155 | M24 | 50 | 35 | 210 H7 | 450 | 1815 | 491 | 2697 |
| | 20,0-25,0 | 75m6 | 79,3 | 20 | | M20 | 42 | | | | | | |
| 187 | 5,60-20,0 | 95m6 | 99,8 | 25 | 155 | M24 | 50 | 35 | 210 H7 | 450 | 1815 | 491 | 2697 |
| | 22,4-28,0 | 75m6 | 79,3 | 20 | | M20 | 42 | | | | | | |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

Type VPJ2 Double Reduction Hollow Low-Speed Shaft with Shrink Disc Sizes 207 – 227/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | AG | AJ* | AL | C | D | E | EE | EF | F | FF | G | GA | J | K | L | M | O | P | PC | Q |
|-------------|-----------|-----|------|-------|-------|-----|-----|------|-----|----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|-------|
| 207 | 5,60-28,0 | 240 | 1429 | 260J7 | 593,8 | 835 | 556 | 916 | 90 | 55 | 109 | 115 | 715 | 875 | 430 | 1814 | 810 | 335 | 680 | 703 | 450 | 167,3 |
| 227 | 5,60-28,0 | 270 | 1608 | 310J7 | 678,8 | 980 | 650 | 1084 | 115 | 75 | 134 | 157 | 830 | 1005 | 480 | 2126 | 900 | 375 | 765 | 793 | 500 | 172,8 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | YY | Approx. Wt. kg. |
|-------------|-----------|-------------------|-------|----|-----|-----|----|----|-------|-----|------|-----|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | | |
| 207 | 5,60-20,0 | 120m6 | 126,9 | 32 | 220 | M24 | 50 | 48 | 270H7 | 465 | 1865 | 695 | 4589 |
| | 22,4-28,0 | 80m6 | 84,8 | 22 | 210 | M20 | 42 | | | | | | |
| 227 | 5,60-20,0 | 140m6 | 147,8 | 36 | 230 | M30 | 60 | 55 | 320H7 | 550 | 2179 | 777 | 6667 |
| | 22,4-28,0 | 100m6 | 105,8 | 28 | | M24 | 50 | | | | | | |

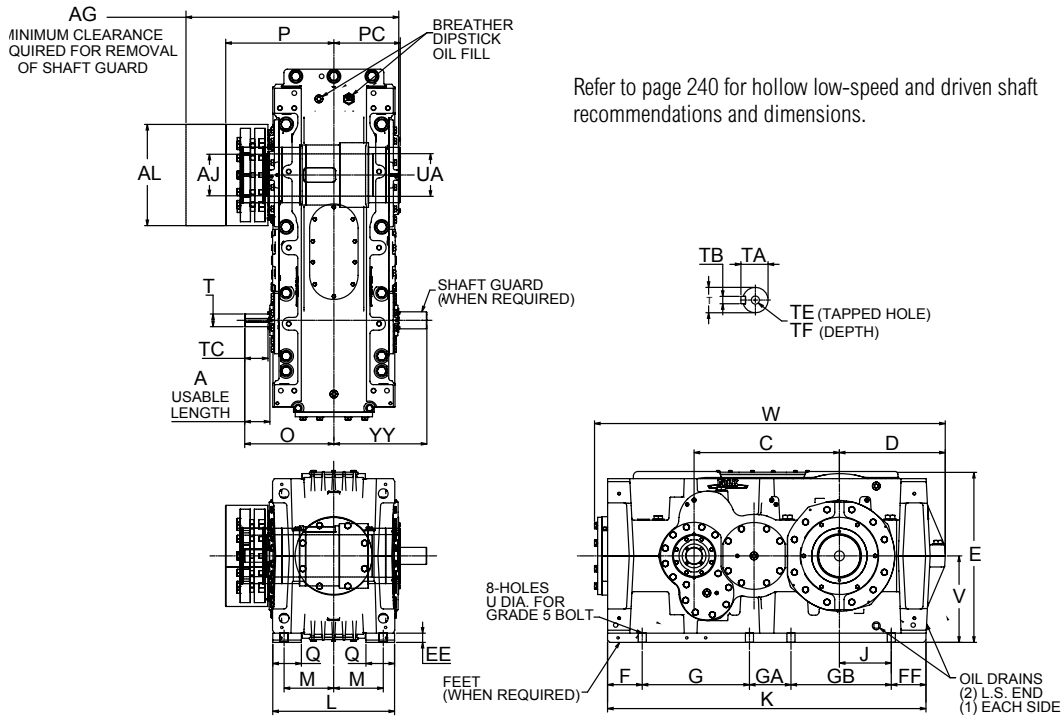
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

Type VPJ3 Triple Reduction Hollow Low-Speed Shaft with Shrink Disc

Sizes 133 – 173/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | AG | AJ* | AL | C | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PC | Q |
|-------------|----------|-----|------|--------|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|-----|-----|-------|
| 133 | 31,5-160 | 70 | 763 | 135 J7 | 342 | 430 | 332 | 552 | 35 | 123,4 | 117,3 | 297,5 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 302 | 348 | 216 | 112,7 |
| 143 | 31,5-160 | 100 | 808 | 150 J7 | 384 | 485 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 334 | 389 | 237 | 108,0 |
| 153 | 31,5-160 | 100 | 876 | 165 J7 | 404 | 560 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 365 | 428 | 247 | 114,0 |
| 163 | 31,5-160 | 100 | 933 | 180 J7 | 439 | 630 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 387 | 469 | 288 | 124,0 |
| 173 | 28,0-140 | 130 | 1034 | 200 J7 | 475 | 700 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 445 | 518 | 317 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | YY | Approx. Wt. kg. |
|-------------|----------|-------------------|------|----|-----|-----|----|----|--------|-----|------|-----|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | | |
| 133 | 31,5-112 | 35k6 | 37,9 | 10 | 65 | M12 | 28 | 24 | 140 H7 | 280 | 1101 | 316 | 754 |
| | 125-160 | 25j6 | 27,9 | 8 | | M10 | 22 | | | | | | |
| 143 | 31,5-112 | 45k6 | 48,4 | 14 | 90 | M16 | 36 | 24 | 155 H7 | 315 | 1222 | 353 | 934 |
| | 125-160 | 30j6 | 32,9 | 8 | | M10 | 22 | | | | | | |
| 153 | 31,5-112 | 48k6 | 51,4 | 14 | 100 | M16 | 36 | 28 | 170 H7 | 335 | 1339 | 373 | 1329 |
| | 125-160 | 35k6 | 37,9 | 10 | | M12 | 28 | | | | | | |
| 163 | 31,5-112 | 55m6 | 58,9 | 16 | 100 | M20 | 42 | 35 | 185 H7 | 375 | 1521 | 403 | 1843 |
| | 125-160 | 42k6 | 44,9 | 12 | | M16 | 36 | | | | | | |
| 173 | 28,0-100 | 65m6 | 68,8 | 18 | 120 | M20 | 42 | 35 | 210 H7 | 450 | 1815 | 466 | 2688 |
| | 112-140 | 50k6 | 53,4 | 14 | | M16 | 36 | | | | | | |

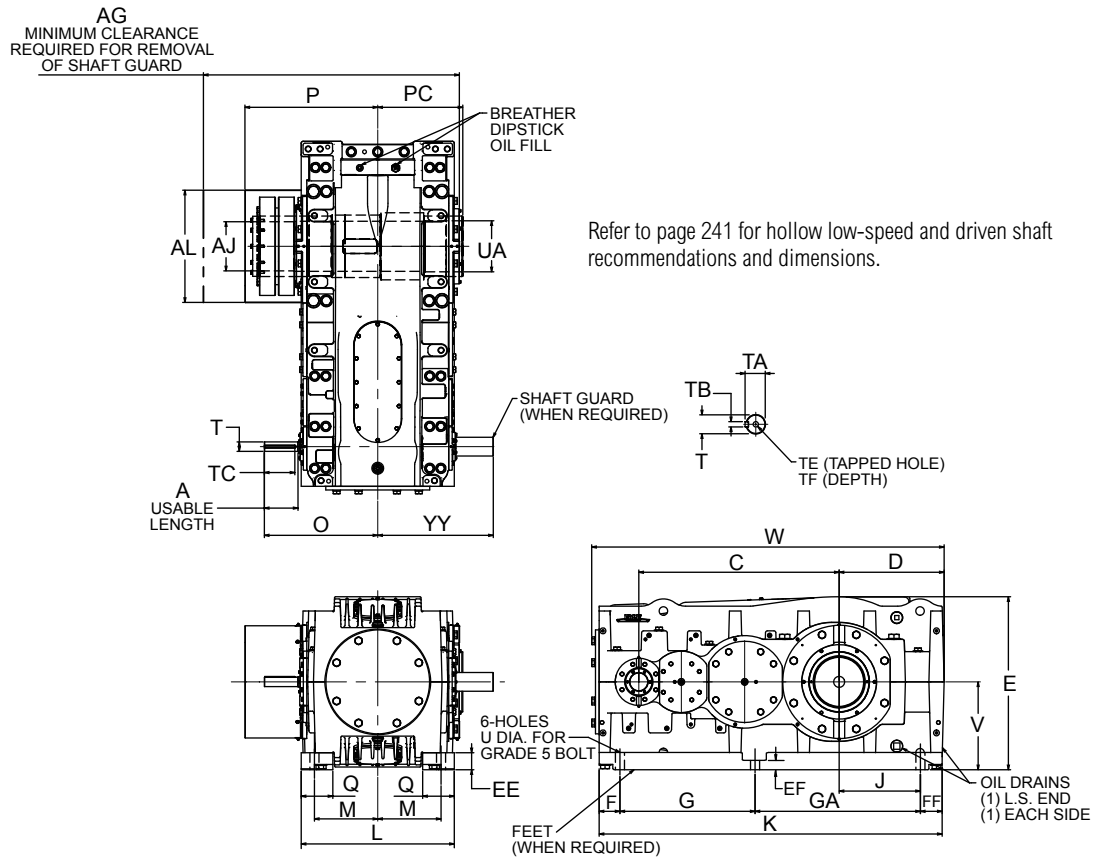
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

Type VPJ3 Triple Reduction Hollow Low-Speed Shaft with Shrink Disc

Sizes 203 – 223/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | AG | AJ* | AL | C | D | E | EE | EF | F | FF | G | GA | J | K | L | M | O | P | PC | Q |
|-------------|----------|-----|------|-------|-----|------|-----|------|-----|----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|-------|
| 203 | 31,5-160 | 170 | 1429 | 260J7 | 594 | 1060 | 556 | 916 | 90 | 55 | 109 | 115 | 715 | 875 | 430 | 1814 | 810 | 335 | 600 | 703 | 450 | 167,3 |
| 223 | 31,5-160 | 200 | 1608 | 310J7 | 679 | 1240 | 650 | 1084 | 115 | 75 | 134 | 157 | 830 | 1005 | 480 | 2126 | 900 | 375 | 675 | 793 | 500 | 172,8 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | YY | Approx. Wt. kg. |
|-------------|----------|-------------------|------|----|-----|-----|----|----|-------|-----|------|-----|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | | |
| 203 | 31,5-112 | 70m6 | 74,3 | 20 | 160 | M20 | 42 | 48 | 270H7 | 465 | 1865 | 611 | 4649 |
| | 125-160 | 50k6 | 53,4 | 14 | | M16 | 36 | | | | | | |
| 223 | 31,5-112 | 90m6 | 94,8 | 25 | 180 | M24 | 50 | 55 | 320H7 | 550 | 2179 | 685 | 6711 |
| | 125-160 | 65m6 | 68,8 | 18 | | M20 | 42 | | | | | | |

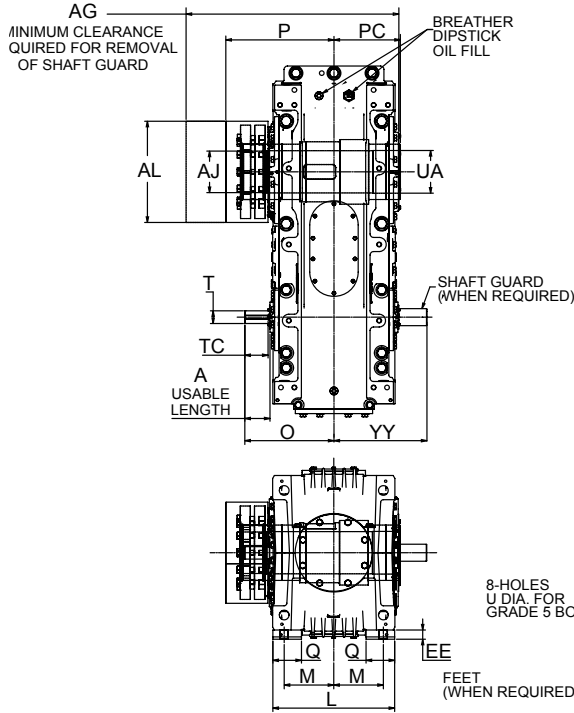
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

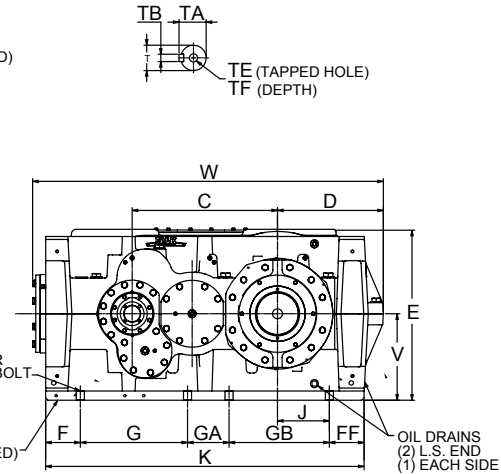
* See table 1 on page 98 for tolerance

Type VPJ3 Triple Reduction Hollow Low-Speed Shaft with Shrink Disc

Sizes 145 – 175/Dimensions — Millimeters



Refer to page 240 for hollow low-speed and driven shaft recommendations and dimensions.



| DRIVE SIZE★ | Ratios | A | AG | AJ* | AL | C | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PC | Q |
|-------------|----------|-----|------|--------|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|-----|-----|-------|
| 145 | 31,5-160 | 100 | 808 | 150 J7 | 384 | 485 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 334 | 389 | 237 | 108,0 |
| 155 | 31,5-160 | 100 | 876 | 165 J7 | 404 | 560 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 365 | 428 | 247 | 114,0 |
| 165 | 31,5-160 | 100 | 933 | 180 J7 | 439 | 630 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 387 | 469 | 288 | 124,0 |
| 175 | 28,0-140 | 130 | 1034 | 200 J7 | 475 | 700 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 445 | 518 | 317 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | YY | Approx. Wt. kg. |
|-------------|----------|-------------------|------|----|-----|-----|----|----|--------|-----|------|-----|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | | |
| 145 | 31,5-112 | 45k6 | 48,4 | 14 | 90 | M16 | 36 | 24 | 155 H7 | 315 | 1222 | 353 | 934 |
| | 125-160 | 30j6 | 32,9 | 8 | | M10 | 22 | | | | | | |
| 155 | 31,5-112 | 48k6 | 51,4 | 14 | 100 | M16 | 36 | 28 | 170 H7 | 335 | 1339 | 373 | 1329 |
| | 125-160 | 35k6 | 37,9 | 10 | | M12 | 28 | | | | | | |
| 165 | 31,5-112 | 55m6 | 58,9 | 16 | 100 | M20 | 42 | 35 | 185 H7 | 375 | 1521 | 403 | 1843 |
| | 125-160 | 42k6 | 44,9 | 12 | | M16 | 36 | | | | | | |
| 175 | 28,0-100 | 65m6 | 68,8 | 18 | 120 | M20 | 42 | 35 | 210 H7 | 450 | 1815 | 466 | 2688 |
| | 112-140 | 50k6 | 53,4 | 14 | | M16 | 36 | | | | | | |

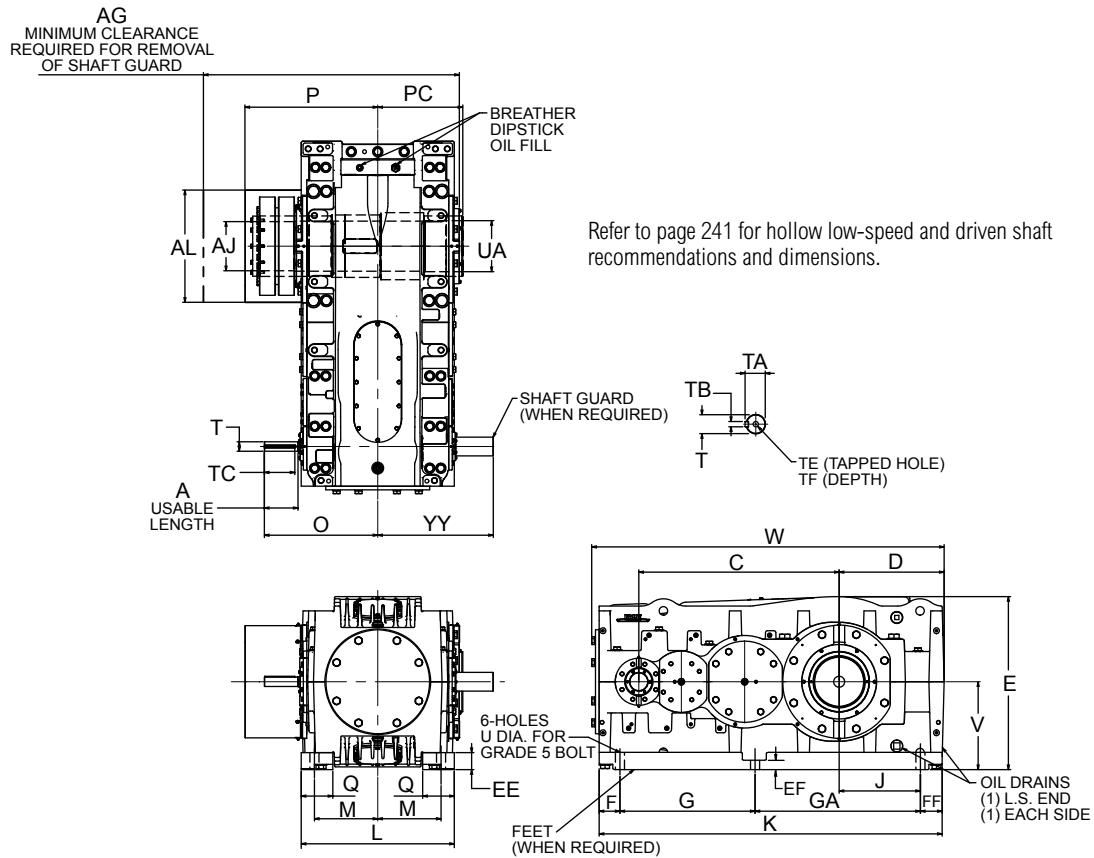
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

Type VPJ3 Triple Reduction Hollow Low-Speed Shaft with Shrink Disc

Sizes 225/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | AG | AJ* | AL | C | D | E | EE | EF | F | FF | G | GA | J | K | L | M | O | P | PC | Q |
|-------------|----------|-----|------|-------|-----|------|-----|------|-----|----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|-------|
| 225 | 31,5-160 | 200 | 1608 | 310J7 | 679 | 1240 | 650 | 1084 | 115 | 75 | 134 | 157 | 830 | 1005 | 480 | 2126 | 900 | 375 | 675 | 793 | 500 | 172,8 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | YY | Approx. Wt. kg. |
|-------------|----------|-------------------|------|----|-----|-----|----|----|-------|-----|------|-----|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | | |
| 225 | 31,5-112 | 90m6 | 94,8 | 25 | 180 | M24 | 50 | 55 | 320H7 | 550 | 2179 | 685 | 6711 |
| | 125-160 | 65m6 | 68,8 | 18 | | M20 | 42 | | | | | | |

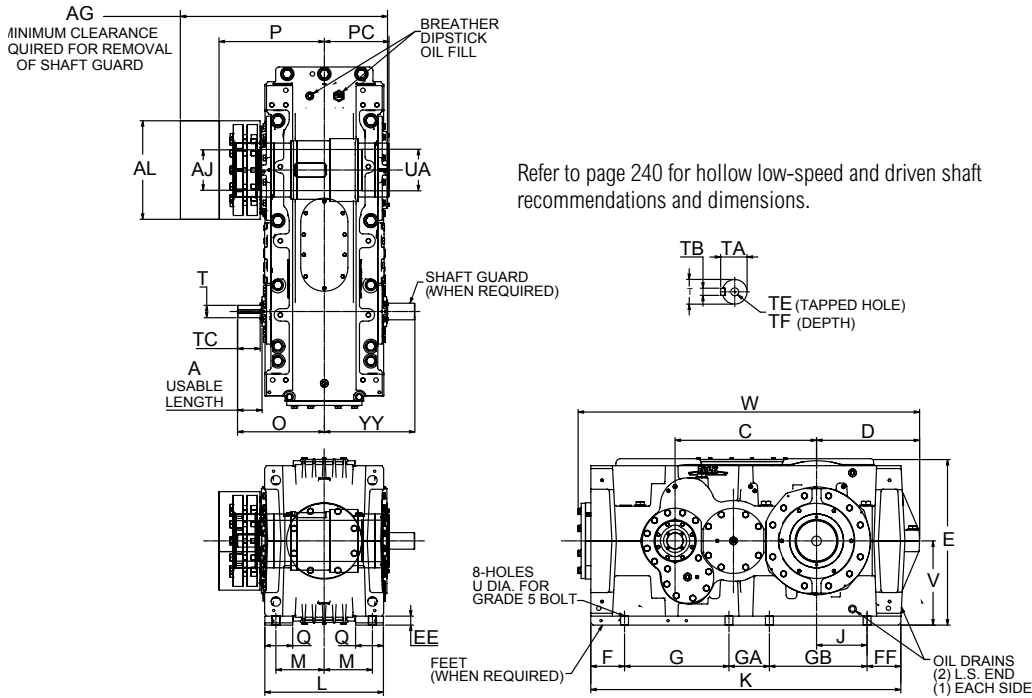
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

Type VPJ3 Triple Reduction Hollow Low-Speed Shaft with Shrink Disc

Sizes 107 – 187/Dimensions — Millimeters



Refer to page 240 for hollow low-speed and driven shaft recommendations and dimensions.

| DRIVE SIZE★ | Ratios | A | AG | AJ* | AL | C | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PC | Q |
|-------------|----------|-----|------|--------|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|-----|-----|-------|
| 107 | 31,5-160 | 56 | 545 | 85 J7 | 264 | 300 | 261 | 419 | 25 | 111,0 | 111,0 | 200,0 | 100 | 200,0 | 100 | 722,0 | 322 | 125,0 | 225 | 269 | 175 | 78,0 |
| 117 | 31,5-160 | 56 | 631 | 105 J7 | 299 | 340 | 286 | 464 | 25 | 115,0 | 115,0 | 230,0 | 120 | 230,0 | 120 | 810,0 | 364 | 150,0 | 249 | 310 | 199 | 92,0 |
| 127 | 31,5-160 | 75 | 673 | 125 J7 | 311 | 385 | 305 | 522 | 25 | 120,0 | 105,0 | 270,0 | 150 | 253,0 | 144 | 898,0 | 410 | 165,0 | 288 | 330 | 216 | 101,6 |
| 137 | 31,5-160 | 70 | 763 | 135 J7 | 342 | 430 | 332 | 552 | 35 | 123,4 | 117,3 | 297,5 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 302 | 348 | 216 | 112,7 |
| 147 | 31,5-160 | 100 | 808 | 150 J7 | 384 | 485 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 334 | 389 | 237 | 108,0 |
| 157 | 31,5-160 | 100 | 876 | 165 J7 | 404 | 560 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 365 | 428 | 247 | 114,0 |
| 167 | 31,5-160 | 100 | 933 | 180 J7 | 439 | 630 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 387 | 469 | 288 | 124,0 |
| 177 | 28,0-140 | 130 | 1034 | 200 J7 | 475 | 700 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 445 | 518 | 317 | 150,0 |
| 187 | 31,5-160 | 130 | 1034 | 205 J7 | 475 | 725 | 559 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 290 | 1633,5 | 588 | 245,0 | 445 | 518 | 317 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | YY | Approx. Wt. kg. |
|-------------|----------|-------------------|------|----|-----|-----|----|----|--------|-----|------|-----|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | | |
| 107 | 31,5-112 | 28j6 | 30,9 | 8 | 50 | M10 | 22 | 15 | 90 H7 | 212 | 817 | 233 | 298 |
| | 125-160 | 24j6 | 26,9 | | | M8 | 19 | | | | | | |
| 117 | 31,5-112 | 30j6 | 32,9 | 8 | 53 | M10 | 22 | 19 | 110 H7 | 236 | 917 | 257 | 420 |
| | 125-160 | 25j6 | 27,9 | | | M10 | 22 | | | | | | |
| 127 | 31,5-112 | 35k6 | 37,9 | 10 | 70 | M12 | 28 | 19 | 130 H7 | 265 | 1007 | 298 | 628 |
| | 125-160 | 25j6 | 27,9 | | | M10 | 22 | | | | | | |
| 137 | 31,5-112 | 35k6 | 37,9 | 10 | 65 | M12 | 28 | 24 | 140 H7 | 280 | 1101 | 316 | 816 |
| | 125-160 | 25j6 | 27,9 | | | M10 | 22 | | | | | | |
| 147 | 31,5-112 | 45k6 | 48,4 | 14 | 90 | M16 | 36 | 24 | 155 H7 | 315 | 1222 | 352 | 1007 |
| | 125-160 | 30j6 | 32,9 | | | M10 | 22 | | | | | | |
| 157 | 31,5-112 | 48k6 | 51,4 | 14 | 100 | M16 | 36 | 28 | 170 H7 | 335 | 1339 | 372 | 1432 |
| | 125-160 | 35k6 | 37,9 | | | M12 | 28 | | | | | | |
| 167 | 31,5-112 | 55m6 | 58,9 | 16 | 100 | M20 | 42 | 35 | 185 H7 | 375 | 1521 | 404 | 1844 |
| | 125-160 | 42k6 | 44,9 | | | M16 | 36 | | | | | | |
| 177 | 28,0-100 | 65m6 | 68,8 | 18 | 120 | M20 | 42 | 35 | 210 H7 | 450 | 1815 | 466 | 2750 |
| | 112-140 | 50k6 | 53,4 | | | M16 | 36 | | | | | | |
| 187 | 31,5-112 | 65m6 | 68,8 | 18 | 120 | M20 | 42 | 35 | 210 H7 | 450 | 1815 | 466 | 2807 |
| | 125-160 | 50k6 | 53,4 | | | M16 | 36 | | | | | | |

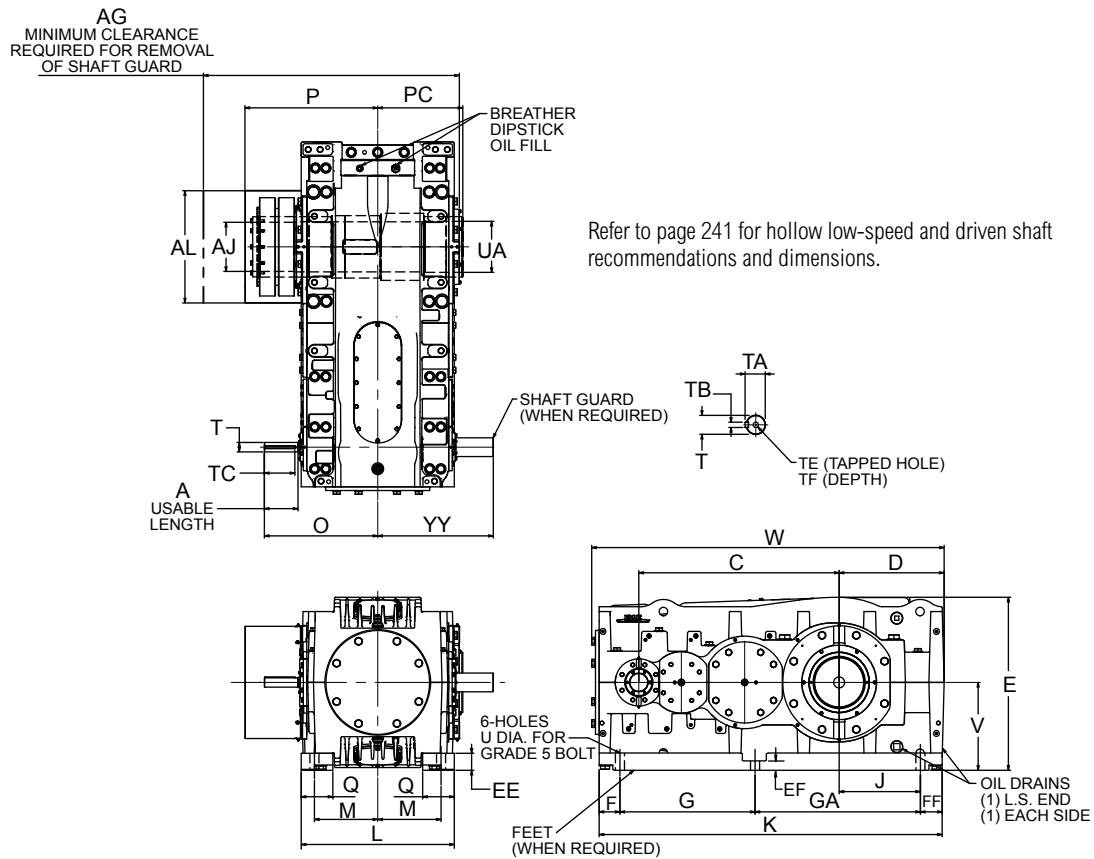
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† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

Type VPJ3 Triple Reduction Hollow Low-Speed Shaft with Shrink Disc

Sizes 207 – 227/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | AG | AJ* | AL | C | D | E | EE | EF | F | FF | G | GA | J | K | L | M | O | P | PC | Q |
|-------------|----------|-----|------|-------|-----|------|-----|------|-----|----|-----|-----|-----|------|-----|------|-----|-----|-----|-----|-----|-------|
| 207 | 31,5-160 | 170 | 1429 | 260J7 | 594 | 1060 | 556 | 916 | 90 | 55 | 109 | 115 | 715 | 875 | 430 | 1814 | 810 | 335 | 600 | 703 | 450 | 167,3 |
| 227 | 31,5-160 | 200 | 1608 | 310J7 | 679 | 1240 | 650 | 1084 | 115 | 75 | 134 | 157 | 830 | 1005 | 480 | 2126 | 900 | 375 | 675 | 793 | 500 | 172,8 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | YY | Approx. Wt. kg. |
|-------------|----------|-------------------|------|----|-----|-----|----|----|-------|-----|------|-----|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | | |
| 207 | 31,5-112 | 70m6 | 74,3 | 20 | 160 | M20 | 42 | 48 | 270H7 | 465 | 1865 | 611 | 4649 |
| | 125-160 | 50k6 | 53,4 | 14 | | M16 | 36 | | | | | | |
| 227 | 31,5-112 | 90m6 | 94,8 | 25 | 180 | M24 | 50 | 55 | 320H7 | 550 | 2179 | 685 | 6711 |
| | 125-160 | 65m6 | 68,8 | 18 | | M20 | 42 | | | | | | |

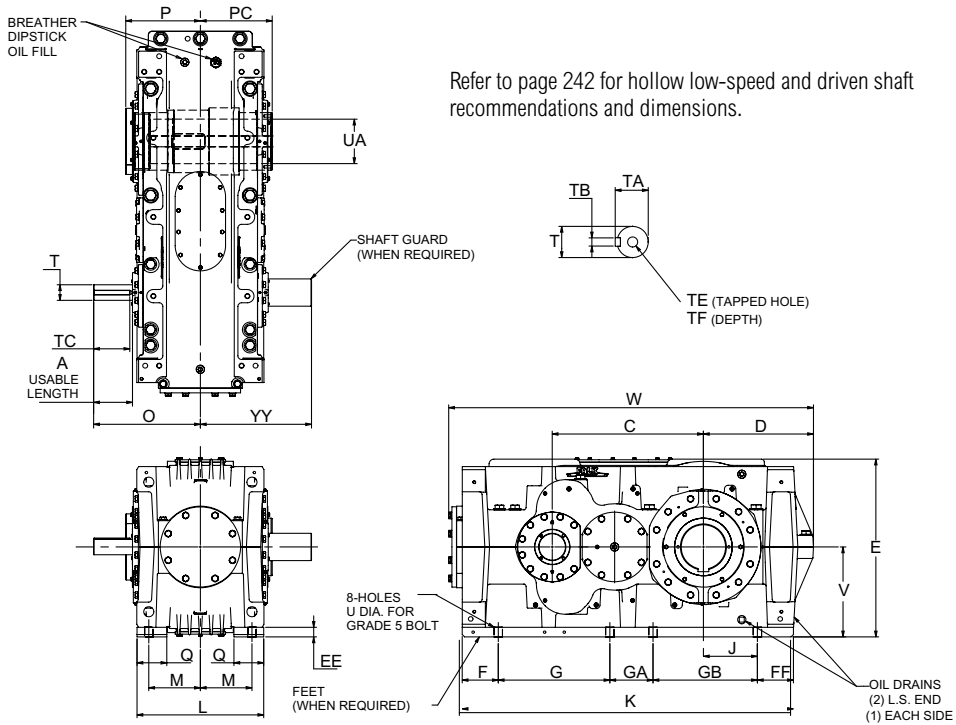
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

Type VPQ2 Double Reduction with Hollow Low-Speed Shaft

Sizes 133 – 173/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | C | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PC | Q |
|-------------|-----------|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|-----|-----|-------|
| 133 | 5,60-28,0 | 100 | 430 | 332 | 552 | 35 | 123,4 | 117,3 | 298,0 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 332 | 253 | 233 | 112,7 |
| 143 | 5,60-28,0 | 125 | 485 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 364 | 255 | 237 | 108,0 |
| 153 | 5,60-28,0 | 130 | 560 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 395 | 286 | 265 | 114,0 |
| 163 | 5,60-28,0 | 155 | 630 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 445 | 311 | 288 | 124,0 |
| 173 | 5,00-25,0 | 160 | 700 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 475 | 334 | 317 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | YY | Approx. Wt. kg. |
|-------------|-----------|-------------------|------|----|-----|-----|----|----|--------|-----|------|-----|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | | |
| 133 | 5,60-20,0 | 56m6 | 59,9 | 16 | 100 | M20 | 42 | 24 | 135 H7 | 280 | 1101 | 342 | 734 |
| | 22,4-28,0 | 42k6 | 44,9 | 12 | | M16 | 36 | | | | | | |
| 143 | 5,60-20,0 | 65m6 | 68,8 | 18 | 115 | M20 | 42 | 24 | 150 H7 | 315 | 1222 | 376 | 968 |
| | 22,4-28,0 | 45k6 | 48,4 | 14 | | M16 | 36 | | | | | | |
| 153 | 5,60-20,0 | 75m6 | 79,3 | 20 | 125 | M20 | 42 | 28 | 170 H7 | 335 | 1339 | 413 | 1338 |
| | 22,4-28,0 | 55m6 | 58,9 | 16 | | | | | | | | | |
| 163 | 5,60-20,0 | 85m6 | 89,8 | 22 | 150 | M20 | 42 | 35 | 185H7 | 375 | 1521 | 463 | 1809 |
| | 22,4-28,0 | 65m6 | 68,8 | 18 | | | | | | | | | |
| 173 | 5,00-18,0 | 95m6 | 99,8 | 25 | 155 | M24 | 50 | 35 | 220H7 | 450 | 1815 | 491 | 2697 |
| | 20,0-25,0 | 75m6 | 79,3 | 20 | | M20 | 42 | | | | | | |

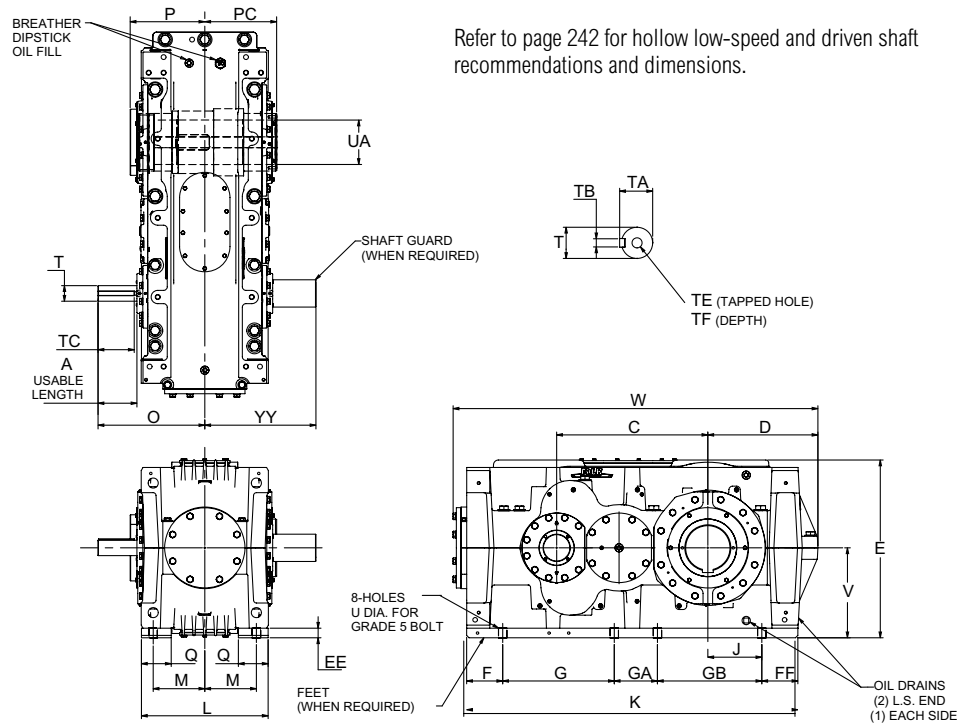
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

Type VPQ2 Double Reduction with Hollow Low-Speed Shaft

Sizes 145 – 175/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | C | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PC | Q |
|-------------|-----------|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|-----|-----|-------|
| 145 | 5,60-28,0 | 125 | 485 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 364 | 255 | 237 | 108,0 |
| 155 | 5,60-28,0 | 130 | 560 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 395 | 286 | 265 | 114,0 |
| 165 | 5,60-28,0 | 155 | 630 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 445 | 311 | 288 | 124,0 |
| 175 | 5,00-25,0 | 160 | 700 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 475 | 334 | 317 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | YY | Approx. Wt. kg. |
|-------------|-----------|-------------------|------|----|-----|-----|----|----|--------|-----|------|-----|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | | |
| 145 | 5,60-20,0 | 65m6 | 68,8 | 18 | 115 | M20 | 42 | 24 | 150 H7 | 315 | 1222 | 376 | 968 |
| | 22,4-28,0 | 45k6 | 48,4 | 14 | | M16 | 36 | | | | | | |
| 155 | 5,60-20,0 | 75m6 | 79,3 | 20 | 125 | M20 | 42 | 28 | 170 H7 | 335 | 1339 | 413 | 1338 |
| | 22,4-28,0 | 55m6 | 58,9 | 16 | | | | | | | | | |
| 165 | 5,60-20,0 | 85m6 | 89,8 | 22 | 150 | M20 | 42 | 35 | 185H7 | 375 | 1521 | 463 | 1809 |
| | 22,4-28,0 | 65m6 | 68,8 | 18 | | | | | | | | | |
| 175 | 5,00-18,0 | 95m6 | 99,8 | 25 | 155 | M24 | 50 | 35 | 220H7 | 450 | 1815 | 491 | 2697 |
| | 20,0-25,0 | 75m6 | 79,3 | 20 | | M20 | 42 | | | | | | |

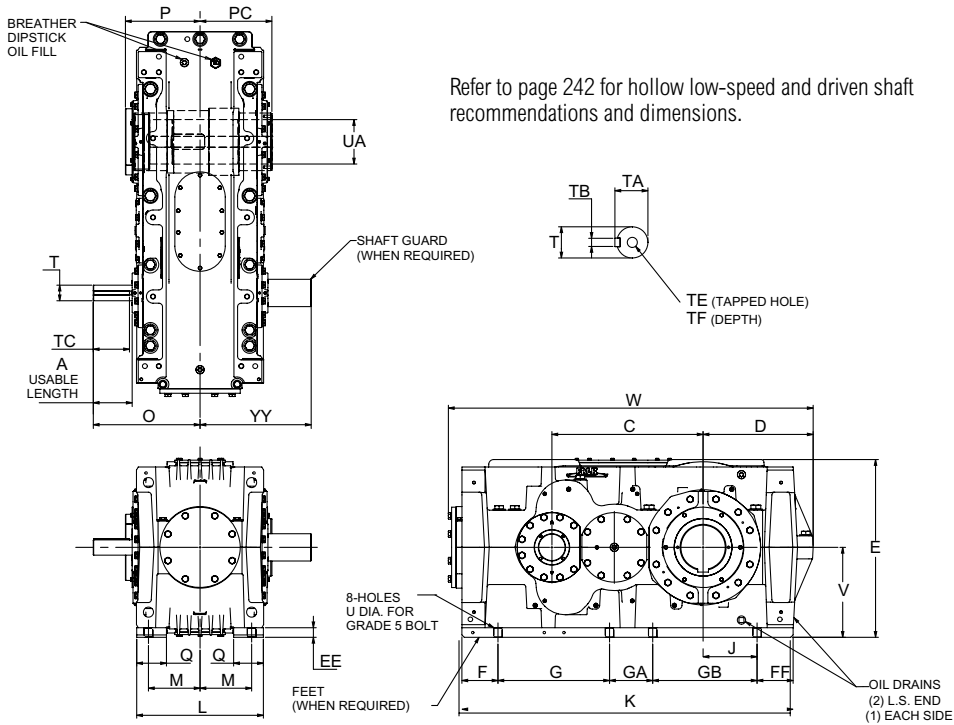
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

Type VPQ2 Double Reduction with Hollow Low-Speed Shaft

Sizes 107 – 187/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | C | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PC | Q |
|-------------|-----------|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|-----|-----|-------|
| 107 | 5,60-28,0 | 100 | 300 | 261 | 419 | 25 | 111,0 | 111,0 | 200,0 | 100 | 200,0 | 100 | 722,0 | 322 | 125,0 | 275 | 179 | 176 | 78,0 |
| 117 | 5,60-28,0 | 100 | 340 | 286 | 464 | 25 | 115,0 | 115,0 | 230,0 | 120 | 230,0 | 120 | 810,0 | 364 | 150,0 | 300 | 205 | 199 | 92,0 |
| 127 | 5,60-28,0 | 100 | 385 | 305 | 522 | 25 | 120,0 | 105,0 | 270,0 | 150 | 253,0 | 144 | 898,0 | 410 | 165,0 | 318 | 225 | 217 | 101,6 |
| 137 | 5,60-28,0 | 100 | 430 | 332 | 552 | 35 | 123,4 | 117,3 | 297,5 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 332 | 253 | 233 | 112,7 |
| 147 | 5,60-28,0 | 125 | 485 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 364 | 255 | 237 | 108,0 |
| 157 | 5,60-28,0 | 130 | 560 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 395 | 286 | 265 | 114,0 |
| 167 | 5,60-28,0 | 155 | 630 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 445 | 311 | 288 | 124,0 |
| 177 | 5,00-25,0 | 160 | 700 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 475 | 334 | 317 | 150,0 |
| 187 | 5,60-28,0 | 160 | 725 | 559 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 290 | 1633,5 | 588 | 245,0 | 475 | 334 | 317 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | YY | Approx. Wt. kg. |
|-------------|-----------|-------------------|------|----|-----|-----|----|----|--------|-----|------|-----|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | | |
| 107 | 5,60-20,0 | 42k6 | 44,9 | 12 | 100 | M16 | 36 | 15 | 95 H7 | 212 | 817 | 282 | 293 |
| | 22,4-28,0 | 28j6 | 30,9 | 8 | | M10 | 22 | | | | | | |
| 117 | 5,60-20,0 | 42k6 | 44,9 | 12 | 100 | M16 | 36 | 19 | 110 H7 | 236 | 917 | 308 | 415 |
| | 22,4-28,0 | 35k6 | 37,9 | 10 | | M12 | 28 | | | | | | |
| 127 | 5,60-20,0 | 52m6 | 55,9 | 16 | 100 | M20 | 42 | 19 | 120 H7 | 265 | 1007 | 327 | 575 |
| | 22,4-28,0 | 35k6 | 37,9 | 10 | | M12 | 28 | | | | | | |
| 137 | 5,60-20,0 | 56m6 | 59,9 | 16 | 100 | M20 | 42 | 24 | 135 H7 | 280 | 1101 | 343 | 734 |
| | 22,4-28,0 | 42k6 | 44,9 | 12 | | M16 | 36 | | | | | | |
| 147 | 5,60-20,0 | 65m6 | 68,8 | 18 | 115 | M20 | 42 | 24 | 150 H7 | 315 | 1222 | 376 | 968 |
| | 22,4-28,0 | 45k6 | 48,4 | 14 | | M16 | 36 | | | | | | |
| 157 | 5,60-20,0 | 75m6 | 79,3 | 20 | 125 | M20 | 42 | 28 | 170 H7 | 335 | 1339 | 422 | 1338 |
| | 22,4-28,0 | 55m6 | 58,9 | 16 | | M20 | 42 | | | | | | |
| 167 | 5,60-20,0 | 85m6 | 89,8 | 22 | 150 | M20 | 42 | 35 | 185H7 | 375 | 1521 | 463 | 1809 |
| | 22,4-28,0 | 65m6 | 68,8 | 18 | | M20 | 42 | | | | | | |
| 177 | 5,00-18,0 | 95m6 | 99,8 | 25 | 155 | M24 | 50 | 35 | 220H7 | 450 | 1815 | 491 | 2697 |
| | 20,0-25,0 | 75m6 | 79,3 | 20 | | M20 | 42 | | | | | | |
| 187 | 5,60-22,0 | 95m6 | 99,8 | 25 | 155 | M24 | 50 | 35 | 220H7 | 450 | 1815 | 491 | 2697 |
| | 22,4-28,0 | 75m6 | 79,3 | 20 | | M20 | 42 | | | | | | |

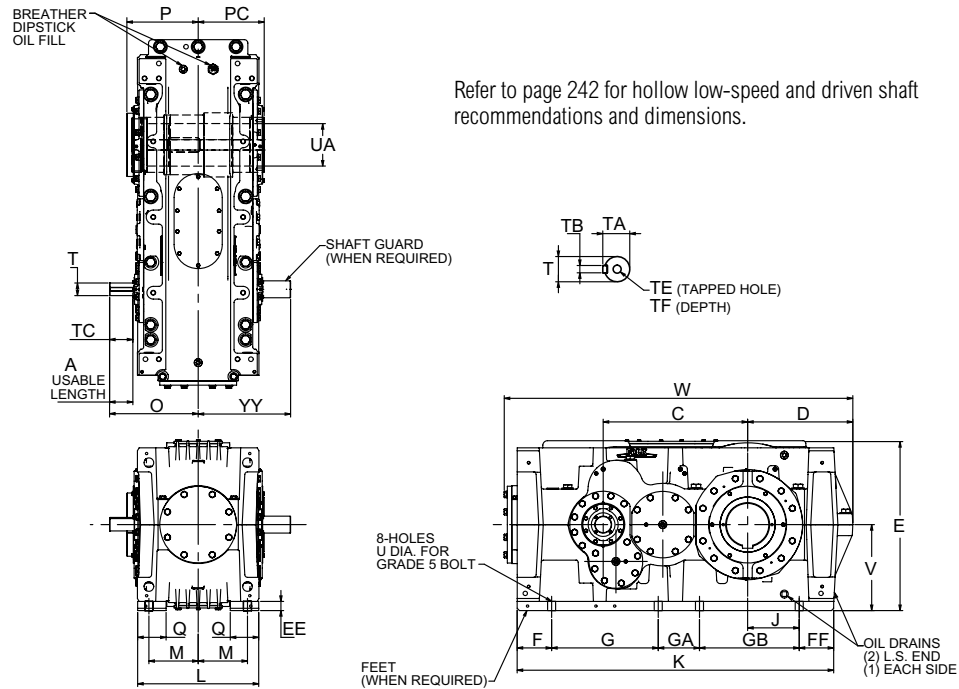
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

Type VPQ3 Triple Reduction with Hollow Low-Speed Shaft

Sizes 133 – 173/Dimensions — Millimeters



Refer to page 242 for hollow low-speed and driven shaft recommendations and dimensions.

| DRIVE SIZE★ | Ratios | A | C | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PC | Q |
|-------------|----------|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|-----|-----|-------|
| 133 | 31,5-160 | 70 | 430 | 332 | 552 | 35 | 123,4 | 117,3 | 297,5 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 302 | 253 | 233 | 112,7 |
| 143 | 31,5-160 | 100 | 485 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 334 | 255 | 237 | 108,0 |
| 153 | 31,5-160 | 100 | 560 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 365 | 286 | 265 | 114,0 |
| 163 | 31,5-160 | 100 | 630 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 387 | 311 | 288 | 124,0 |
| 173 | 28,0-140 | 130 | 700 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 445 | 334 | 317 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | YY | Approx. Wt. kg. |
|-------------|----------|-------------------|------|----|-----|-----|----|----|--------|-----|------|-----|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | | |
| 133 | 31,5-112 | 35k6 | 37,9 | 10 | 65 | M12 | 28 | 24 | 135 H7 | 280 | 1101 | 316 | 754 |
| | 125-160 | 25j6 | 27,9 | 8 | | M10 | 22 | | | | | | |
| 143 | 31,5-112 | 45k6 | 48,4 | 14 | 90 | M16 | 36 | 24 | 150 H7 | 315 | 1222 | 353 | 934 |
| | 125-160 | 30j6 | 32,9 | 8 | | M10 | 22 | | | | | | |
| 153 | 31,5-112 | 48k6 | 51,4 | 14 | 100 | M16 | 36 | 28 | 170 H7 | 335 | 1339 | 373 | 1329 |
| | 125-160 | 35k6 | 37,9 | 10 | | M12 | 28 | | | | | | |
| 163 | 31,5-112 | 55m6 | 58,9 | 16 | 100 | M20 | 42 | 35 | 185H7 | 375 | 1521 | 403 | 1843 |
| | 125-160 | 42k6 | 44,9 | 12 | | M16 | 36 | | | | | | |
| 173 | 28,0-100 | 65m6 | 68,8 | 18 | 120 | M20 | 42 | 35 | 220H7 | 450 | 1815 | 466 | 2688 |
| | 112-140 | 50k6 | 53,4 | 14 | | M16 | 36 | | | | | | |

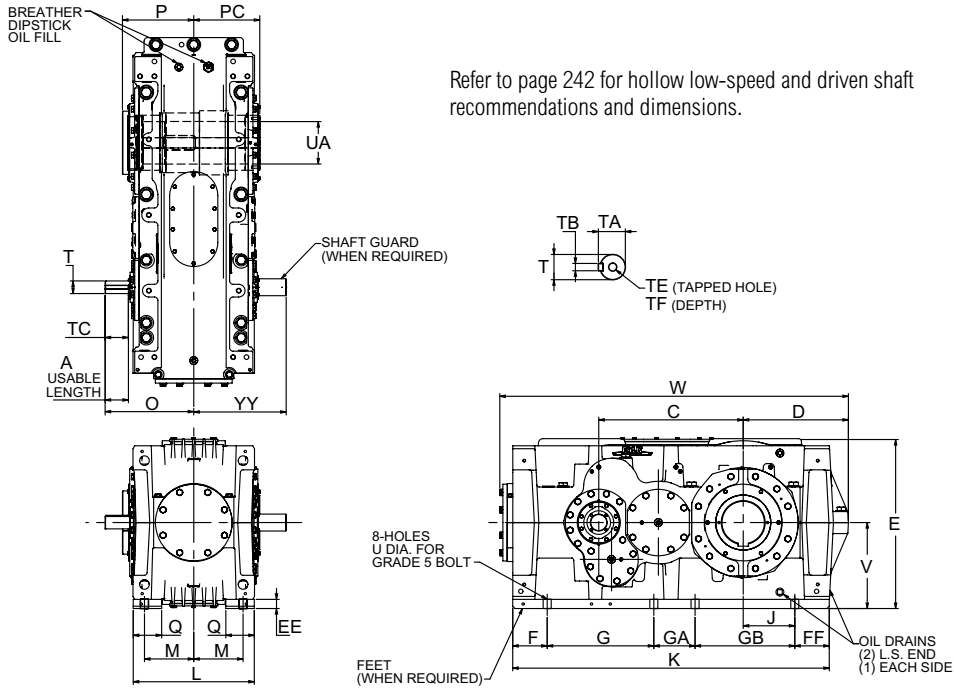
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

Type VPQ3 Triple Reduction with Hollow Low-Speed Shaft

Sizes 145 – 175/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | C | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PC | Q |
|-------------|----------|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|-----|-----|-------|
| 145 | 31,5-160 | 100 | 485 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 334 | 255 | 237 | 108,0 |
| 155 | 31,5-160 | 100 | 560 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 365 | 286 | 265 | 114,0 |
| 165 | 31,5-160 | 100 | 630 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 387 | 311 | 288 | 124,0 |
| 175 | 28,0-140 | 130 | 700 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 445 | 334 | 317 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | YY | Approx. Wt. kg. |
|-------------|----------|-------------------|------|----|-----|-----|----|----|--------|-----|------|-----|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | | |
| 145 | 31,5-112 | 45k6 | 48,4 | 14 | 90 | M16 | 36 | 24 | 150 H7 | 315 | 1222 | 353 | 934 |
| | 125-160 | 30j6 | 32,9 | 8 | | M10 | 22 | | | | | | |
| 155 | 31,5-112 | 48k6 | 51,4 | 14 | 100 | M16 | 36 | 28 | 170 H7 | 335 | 1339 | 373 | 1329 |
| | 125-160 | 35k6 | 37,9 | 10 | | M12 | 28 | | | | | | |
| 165 | 31,5-112 | 55m6 | 58,9 | 16 | 100 | M20 | 42 | 35 | 185H7 | 375 | 1521 | 403 | 1843 |
| | 125-160 | 42k6 | 44,9 | 12 | | M16 | 36 | | | | | | |
| 175 | 28,0-100 | 65m6 | 68,8 | 18 | 120 | M20 | 42 | 35 | 220H7 | 450 | 1815 | 466 | 2688 |
| | 112-140 | 50k6 | 53,4 | 14 | | M16 | 36 | | | | | | |

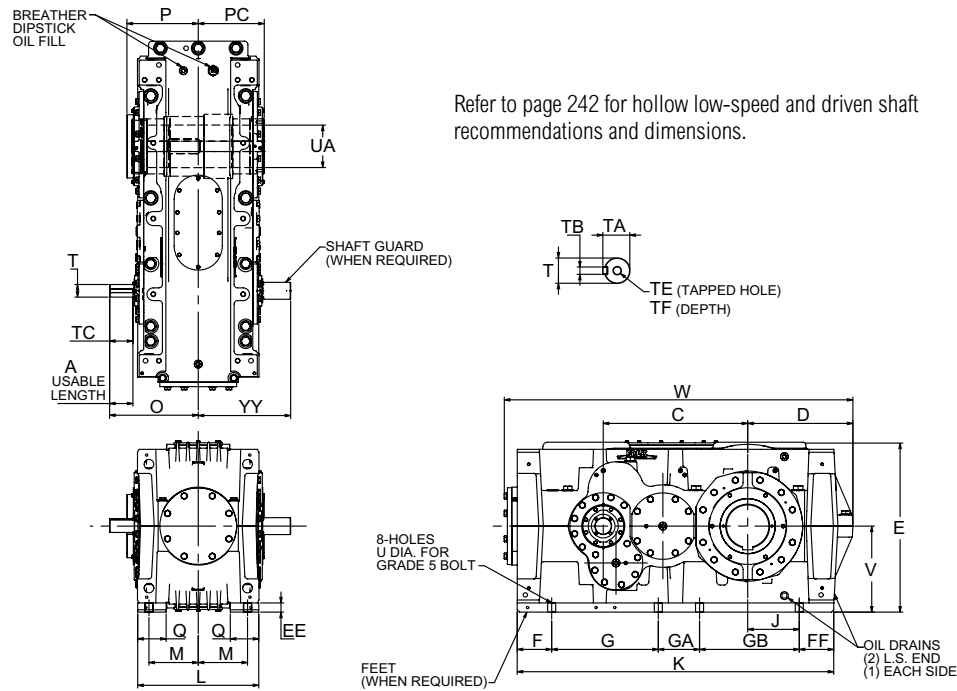
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† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

Type VPQ3 Triple Reduction with Hollow Low-Speed Shaft

Sizes 107 – 187/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | C | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PC | Q |
|-------------|----------|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|-----|-----|-------|
| 107 | 31,5-160 | 56 | 300 | 261 | 419 | 25 | 111,0 | 111,0 | 200,0 | 100 | 200,0 | 100 | 722,0 | 322 | 125,0 | 225 | 179 | 176 | 78,0 |
| 117 | 31,5-160 | 56 | 340 | 286 | 464 | 25 | 115,0 | 115,0 | 230,0 | 120 | 230,0 | 120 | 810,0 | 364 | 150,0 | 249 | 205 | 199 | 92,0 |
| 127 | 31,5-160 | 75 | 385 | 305 | 522 | 25 | 120,0 | 105,0 | 270,0 | 150 | 253,0 | 144 | 898,0 | 410 | 165,0 | 288 | 225 | 217 | 101,6 |
| 137 | 31,5-160 | 70 | 430 | 332 | 552 | 35 | 123,4 | 117,3 | 297,5 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 302 | 253 | 233 | 112,7 |
| 147 | 31,5-160 | 100 | 485 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 334 | 255 | 237 | 108,0 |
| 157 | 31,5-160 | 100 | 560 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 365 | 286 | 265 | 114,0 |
| 167 | 31,5-160 | 100 | 630 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 387 | 311 | 288 | 124,0 |
| 177 | 28,0-140 | 130 | 700 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 445 | 334 | 317 | 150,0 |
| 187 | 31,5-160 | 130 | 725 | 559 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 290 | 1633,5 | 588 | 245,0 | 445 | 334 | 317 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | YY | Approx. Wt. kg. |
|-------------|----------|-------------------|------|----|-----|-----|----|----|--------|-----|------|-----|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | | |
| 107 | 31,5-112 | 28j6 | 30,9 | 8 | 50 | M10 | 22 | 15 | 95 H7 | 212 | 817 | 233 | 298 |
| | 125-160 | 24j6 | 26,9 | | | M8 | 19 | | | | | | |
| 117 | 31,5-112 | 30j6 | 32,9 | 8 | 53 | M10 | 22 | 19 | 110 H7 | 236 | 917 | 257 | 420 |
| | 125-160 | 25j6 | 27,9 | | | M10 | 22 | | | | | | |
| 127 | 31,5-112 | 35k6 | 37,9 | 10 | 70 | M12 | 28 | 19 | 120 H7 | 265 | 1007 | 298 | 586 |
| | 125-160 | 25j6 | 27,9 | 8 | 67 | M10 | 22 | | | | | | |
| 137 | 31,5-112 | 35k6 | 37,9 | 10 | 65 | M12 | 28 | 24 | 135 H7 | 280 | 1101 | 316 | 754 |
| | 125-160 | 25j6 | 27,9 | 8 | | M10 | 22 | | | | | | |
| 147 | 31,5-112 | 45k6 | 48,4 | 14 | 90 | M16 | 36 | 24 | 150 H7 | 315 | 1222 | 352 | 934 |
| | 125-160 | 30j6 | 32,9 | 8 | | M10 | 22 | | | | | | |
| 157 | 31,5-112 | 48k6 | 51,4 | 14 | 100 | M16 | 36 | 28 | 170 H7 | 335 | 1339 | 372 | 1329 |
| | 125-160 | 35k6 | 37,9 | 10 | | M12 | 28 | | | | | | |
| 167 | 31,5-112 | 55m6 | 58,9 | 16 | 100 | M20 | 42 | 35 | 185H7 | 375 | 1521 | 404 | 1843 |
| | 125-160 | 42k6 | 44,9 | 12 | | M16 | 36 | | | | | | |
| 177 | 28,0-100 | 65m6 | 68,8 | 18 | 120 | M20 | 42 | 35 | 220H7 | 450 | 1815 | 466 | 2688 |
| | 112-140 | 50k6 | 53,4 | 14 | | M16 | 36 | | | | | | |
| 187 | 31,5-112 | 65m6 | 68,8 | 18 | 120 | M20 | 42 | 35 | 220H7 | 450 | 1815 | 466 | 2750 |
| | 125-160 | 50k6 | 53,4 | 14 | | M16 | 36 | | | | | | |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

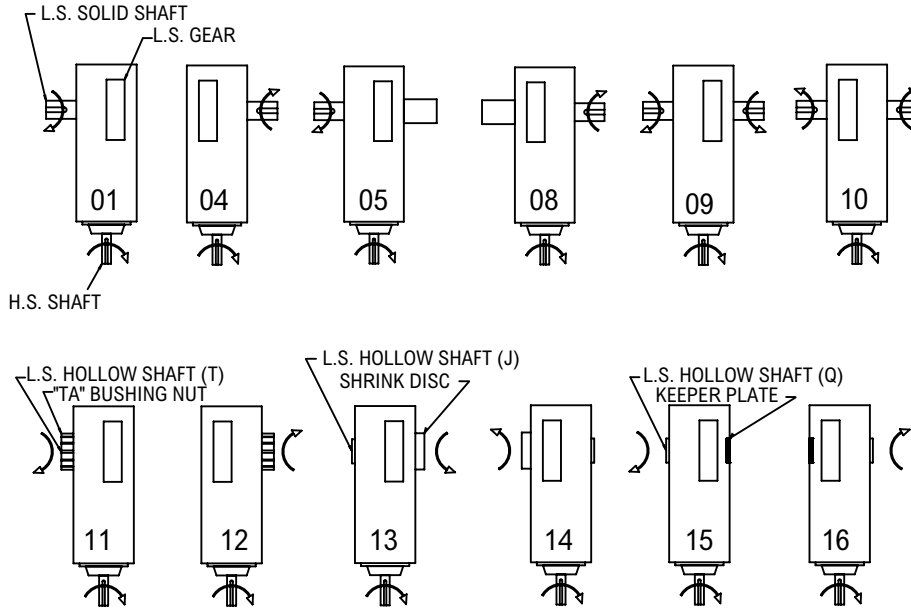
† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

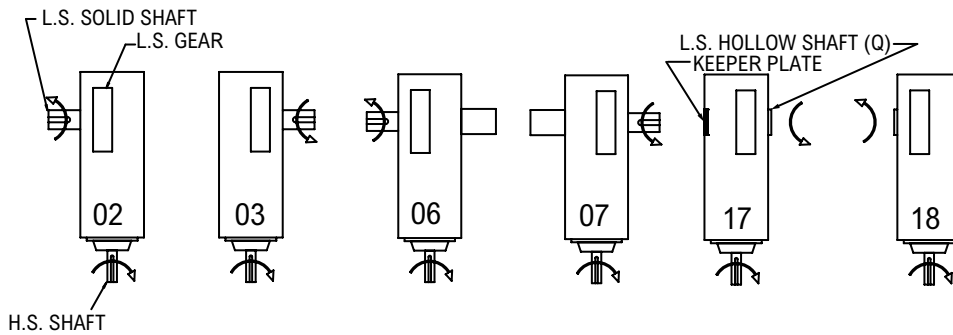
Type VR Right Angle Shaft Shaft Assemblies & Rotations

Please specify the desired assembly number from the views below. Contact the Factory for inclined, wall-mounted, or other non-standard orientations.

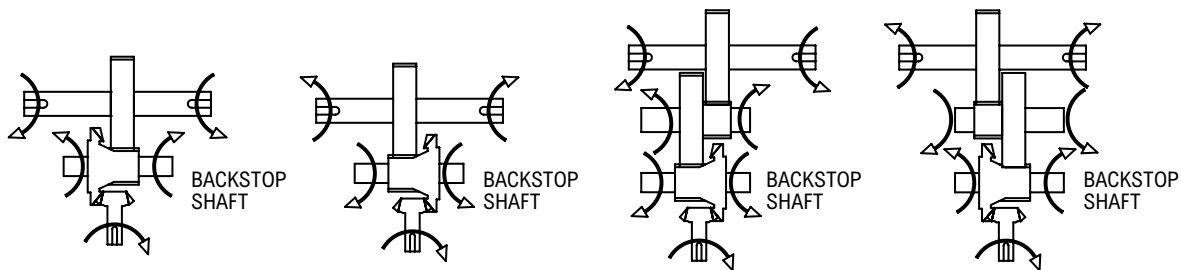
Preferred Assemblies



Alternate Assemblies



Relative Rotations[‡]



Assemblies:
01, 03, 05, 07, 09,
11, 13, 15 & 17

Assemblies:
02, 04, 06, 08, 10,
12, 14, 16 & 18

Assemblies:
01, 03, 05, 07, 09,
11, 13, 15 & 17

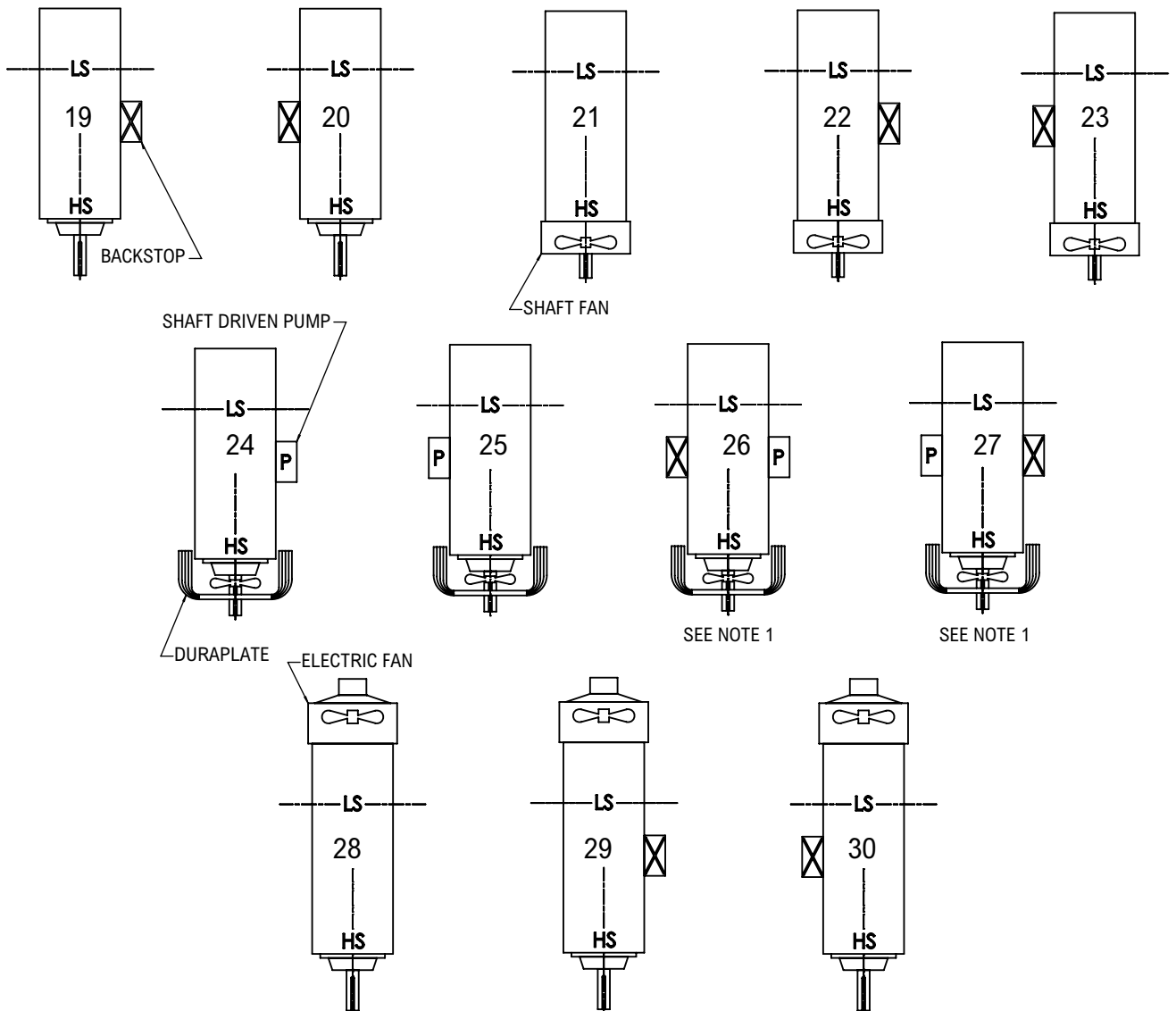
Assemblies:
02, 04, 06, 08, 10,
12, 14, 16 & 18

[‡] If the input shaft rotation is opposite the rotation shown, the output shaft rotation will also be opposite the rotation shown.

Type VR Right Angle Shaft Accessory Locations

Please specify the desired assembly number from the views below. Contact the Factory for inclined, wall-mounted, or other non-standard orientations.

Accessory Location Codes



Note:

1. Figures 26-27 are valid option selections for 100-180VR2 and 160-220VR3 drives. 100-150VR3 drives must be reviewed by engineering for interference between accessory components before Figures 26-27 are selected.

Type VR2 Right Angle

Power Ratings – kW/Double Reduction

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1800 | 6,30 | 286 | | | | | | | | | | | | | | | 1515 | 1706 | 1897 | |
| | 7,10 | 254 | 125 | 209 | 309 | 409 | 505 | 541 | 596 | 643 | 805 | 912 | 1005 | 978 | 1093 | 1227 | 1515 | 1706 | 1897 | 1897 |
| | 8,00 | 225 | 119 | 193 | 293 | 399 | 493 | 558 | 615 | 664 | 751 | 851 | 939 | 1038 | 1160 | 1302 | 1515 | 1706 | 1897 | 1897 |
| | 9,00 | 200 | 122 | 167 | 262 | 347 | 429 | 487 | 537 | 580 | 667 | 755 | 833 | 958 | 1071 | 1201 | 1223 | 1377 | 1532 | 1897 |
| | 10,0 | 180 | 93 | 153 | 236 | 302 | 373 | 409 | 450 | 486 | 581 | 659 | 727 | 747 | 835 | 937 | 1170 | 1318 | 1466 | 1529 |
| | 11,2 | 161 | 89 | 142 | 224 | 295 | 365 | 422 | 465 | 502 | 546 | 619 | 682 | 795 | 889 | 997 | 1151 | 1296 | 1442 | 1467 |
| | 12,5 | 144 | 92 | 125 | 201 | 259 | 320 | 371 | 408 | 441 | 489 | 554 | 611 | 732 | 819 | 919 | | | | 1441 |
| 1500 | 6,30 | 238 | | | | | | | | | | | | | | | 1333 | 1501 | 1670 | |
| | 7,10 | 211 | 110 | 184 | 272 | 360 | 445 | 476 | 524 | 566 | 708 | 803 | 885 | 861 | 962 | 1080 | 1333 | 1501 | 1670 | 1670 |
| | 8,00 | 188 | 105 | 170 | 258 | 351 | 434 | 491 | 541 | 584 | 661 | 749 | 826 | 914 | 1021 | 1146 | 1333 | 1501 | 1670 | 1670 |
| | 9,00 | 167 | 108 | 147 | 230 | 305 | 377 | 429 | 473 | 510 | 587 | 665 | 733 | 843 | 942 | 1057 | 1076 | 1212 | 1348 | 1670 |
| | 10,0 | 150 | 82 | 135 | 208 | 266 | 328 | 360 | 396 | 428 | 512 | 580 | 639 | 658 | 735 | 825 | 1030 | 1160 | 1290 | 1346 |
| | 11,2 | 134 | 78 | 125 | 198 | 260 | 321 | 372 | 409 | 442 | 480 | 544 | 600 | 700 | 782 | 878 | 1013 | 1141 | 1269 | 1291 |
| | 12,5 | 120 | 81 | 110 | 177 | 228 | 282 | 326 | 359 | 388 | 431 | 488 | 538 | 645 | 721 | 809 | | | | 1269 |
| 1200 | 6,30 | 190 | | | | | | | | | | | | | | | 1140 | 1284 | 1428 | |
| | 7,10 | 169 | 94 | 158 | 233 | 308 | 380 | 407 | 448 | 484 | 606 | 686 | 757 | 736 | 823 | 924 | 1140 | 1284 | 1428 | 1428 |
| | 8,00 | 150 | 89 | 145 | 221 | 300 | 371 | 420 | 463 | 500 | 566 | 641 | 707 | 782 | 874 | 980 | 1140 | 1284 | 1428 | 1428 |
| | 9,00 | 133 | 92 | 126 | 197 | 261 | 323 | 367 | 404 | 436 | 502 | 569 | 627 | 721 | 806 | 905 | 921 | 1037 | 1153 | 1428 |
| | 10,0 | 120 | 70 | 115 | 178 | 227 | 281 | 308 | 339 | 366 | 438 | 496 | 547 | 563 | 629 | 706 | 881 | 992 | 1104 | 1151 |
| | 11,2 | 107 | 67 | 107 | 169 | 222 | 275 | 318 | 350 | 378 | 411 | 466 | 514 | 598 | 669 | 751 | 867 | 976 | 1085 | 1104 |
| | 12,5 | 96 | 69 | 94 | 152 | 195 | 241 | 279 | 307 | 332 | 368 | 417 | 460 | 551 | 616 | 692 | | | | 1085 |
| 1000 | 6,30 | 159 | | | | | | | | | | | | | | | 1004 | 1130 | 1257 | |
| | 7,10 | 141 | 83 | 139 | 205 | 271 | 335 | 358 | 394 | 426 | 533 | 604 | 666 | 628 | 702 | 787 | 1004 | 1130 | 1257 | 1257 |
| | 8,00 | 125 | 79 | 128 | 194 | 264 | 327 | 366 | 403 | 435 | 498 | 564 | 622 | 688 | 769 | 863 | 978 | 1102 | 1225 | 1257 |
| | 9,00 | 111 | 81 | 111 | 173 | 230 | 284 | 323 | 356 | 384 | 442 | 501 | 552 | 635 | 710 | 796 | 810 | 913 | 1015 | 1226 |
| | 10,0 | 100 | 62 | 102 | 156 | 200 | 247 | 271 | 298 | 322 | 385 | 437 | 481 | 476 | 532 | 597 | 775 | 873 | 971 | 1013 |
| | 11,2 | 89 | 59 | 94 | 149 | 196 | 242 | 280 | 308 | 333 | 362 | 410 | 452 | 527 | 589 | 661 | 763 | 859 | 955 | 972 |
| | 12,5 | 80 | 61 | 83 | 133 | 172 | 212 | 246 | 270 | 292 | 324 | 367 | 405 | 485 | 543 | 609 | | | | 955 |
| 900 | 6,30 | 143 | | | | | | | | | | | | | | | 932 | 1050 | 1168 | |
| | 7,10 | 127 | 77 | 129 | 190 | 246 | 303 | 322 | 355 | 383 | 495 | 561 | 619 | 565 | 632 | 709 | 932 | 1050 | 1168 | 1168 |
| | 8,00 | 113 | 73 | 119 | 181 | 245 | 303 | 329 | 363 | 391 | 462 | 524 | 578 | 639 | 714 | 801 | 880 | 992 | 1103 | 1168 |
| | 9,00 | 100 | 75 | 103 | 161 | 214 | 264 | 300 | 330 | 357 | 410 | 465 | 513 | 590 | 659 | 740 | 753 | 848 | 943 | 1103 |
| | 10,0 | 90 | 57 | 94 | 145 | 186 | 230 | 252 | 277 | 299 | 358 | 406 | 447 | 429 | 479 | 538 | 720 | 811 | 902 | 941 |
| | 11,2 | 80 | 55 | 87 | 138 | 182 | 224 | 260 | 286 | 309 | 336 | 381 | 420 | 489 | 547 | 614 | 708 | 798 | 887 | 903 |
| | 12,5 | 72 | 56 | 77 | 124 | 159 | 197 | 228 | 251 | 271 | 301 | 341 | 376 | 451 | 504 | 566 | | | | 887 |

Type VR2 Right Angle

Torque Ratings – kNm/Double Reduction

(kNm AT LOW SPEED SHAFT)

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1800 | 6,30 | 286 | | | | | | | | | | | | | | | 54,1 | 61,0 | 67,8 | |
| | 7,10 | 254 | 4,86 | 7,83 | 12,1 | 15,9 | 19,7 | 20,5 | 22,5 | 24,3 | 30,1 | 34,1 | 37,6 | 38,1 | 42,6 | 47,8 | 59,9 | 67,4 | 75,0 | 73,9 |
| | 8,00 | 225 | 5,06 | 8,23 | 12,9 | 17,5 | 21,6 | 23,6 | 26,0 | 28,1 | 32,5 | 36,9 | 40,7 | 44,6 | 49,8 | 55,9 | 68,4 | 77,1 | 85,7 | 80,4 |
| | 9,00 | 200 | 5,81 | 8,04 | 12,5 | 16,4 | 20,3 | 23,7 | 26,1 | 28,2 | 31,2 | 35,4 | 39,0 | 45,5 | 50,8 | 57,0 | 59,8 | 67,4 | 74,9 | 92,1 |
| | 10,0 | 180 | 4,95 | 7,93 | 12,6 | 16,5 | 20,3 | 21,1 | 23,2 | 25,1 | 30,0 | 34,0 | 37,5 | 39,8 | 44,5 | 50,0 | 63,3 | 71,3 | 79,3 | 81,5 |
| | 11,2 | 161 | 5,18 | 8,38 | 13,4 | 18,1 | 22,3 | 24,4 | 26,9 | 29,0 | 32,6 | 37,0 | 40,8 | 46,7 | 52,2 | 58,6 | 71,2 | 80,1 | 89,1 | 85,0 |
| | 12,5 | 144 | 5,93 | 8,26 | 13,0 | 17,1 | 21,2 | 24,6 | 27,1 | 29,3 | 31,6 | 35,8 | 39,5 | 47,6 | 53,2 | 59,7 | | | | 95,8 |
| 1500 | 6,30 | 238 | | | | | | | | | | | | | | | 57,2 | 64,4 | 71,6 | |
| | 7,10 | 211 | 5,13 | 8,27 | 12,8 | 16,8 | 20,8 | 21,6 | 23,8 | 25,7 | 31,8 | 36,0 | 39,7 | 40,3 | 45,0 | 50,5 | 63,2 | 71,2 | 79,2 | 78,0 |
| | 8,00 | 188 | 5,35 | 8,69 | 13,7 | 18,5 | 22,8 | 25,0 | 27,5 | 29,7 | 34,4 | 38,9 | 42,9 | 47,1 | 52,6 | 59,0 | 72,3 | 81,4 | 90,5 | 84,9 |
| | 9,00 | 167 | 6,13 | 8,49 | 13,2 | 17,4 | 21,4 | 25,0 | 27,6 | 29,8 | 33,0 | 37,4 | 41,2 | 48,0 | 53,7 | 60,2 | 63,2 | 71,1 | 79,1 | 97,3 |
| | 10,0 | 150 | 5,23 | 8,37 | 13,3 | 17,4 | 21,5 | 22,3 | 24,6 | 26,5 | 31,7 | 35,9 | 39,6 | 42,1 | 47,1 | 52,8 | 66,9 | 75,3 | 83,7 | 86,1 |
| | 11,2 | 134 | 5,47 | 8,85 | 14,2 | 19,1 | 23,6 | 25,8 | 28,4 | 30,7 | 34,5 | 39,1 | 43,1 | 49,3 | 55,1 | 61,9 | 75,2 | 84,6 | 94,1 | 89,8 |
| | 12,5 | 120 | 6,27 | 8,73 | 13,8 | 18,1 | 22,4 | 26,0 | 28,6 | 30,9 | 33,4 | 37,9 | 41,8 | 50,2 | 56,2 | 63,0 | | | | 101,2 |
| 1200 | 6,30 | 190 | | | | | | | | | | | | | | | 61,1 | 68,8 | 76,6 | |
| | 7,10 | 169 | 5,48 | 8,85 | 13,7 | 18,0 | 22,3 | 23,1 | 25,5 | 27,5 | 34,0 | 38,5 | 42,5 | 43,0 | 48,1 | 54,0 | 67,6 | 76,2 | 84,7 | 83,4 |
| | 8,00 | 150 | 5,72 | 9,29 | 14,6 | 19,7 | 24,4 | 26,7 | 29,4 | 31,7 | 36,7 | 41,6 | 45,9 | 50,3 | 56,2 | 63,1 | 77,3 | 87,0 | 96,8 | 90,7 |
| | 9,00 | 133 | 6,56 | 9,08 | 14,1 | 18,6 | 22,9 | 26,8 | 29,5 | 31,8 | 35,3 | 40,0 | 44,1 | 51,3 | 57,4 | 64,4 | 67,5 | 76,1 | 84,6 | 104,1 |
| | 10,0 | 120 | 5,59 | 8,95 | 14,2 | 18,6 | 23,0 | 23,8 | 26,3 | 28,3 | 33,9 | 38,4 | 42,4 | 45,0 | 50,3 | 56,5 | 71,5 | 80,5 | 89,5 | 92,0 |
| | 11,2 | 107 | 5,85 | 9,46 | 15,2 | 20,4 | 25,2 | 27,6 | 30,4 | 32,8 | 36,9 | 41,8 | 46,1 | 52,7 | 58,9 | 66,1 | 80,4 | 90,5 | 100,7 | 96,0 |
| | 12,5 | 96 | 6,70 | 9,33 | 14,7 | 19,4 | 23,9 | 27,8 | 30,6 | 33,0 | 35,7 | 40,5 | 44,6 | 53,7 | 60,1 | 67,4 | | | | 108,2 |
| 1000 | 6,30 | 159 | | | | | | | | | | | | | | | 64,6 | 72,7 | 80,9 | |
| | 7,10 | 141 | 5,79 | 9,34 | 14,5 | 19,0 | 23,5 | 24,4 | 26,9 | 29,0 | 35,9 | 40,7 | 44,9 | 44,0 | 49,2 | 55,2 | 71,4 | 80,4 | 89,5 | 88,1 |
| | 8,00 | 125 | 6,04 | 9,82 | 15,4 | 20,8 | 25,7 | 27,9 | 30,7 | 33,2 | 38,8 | 44,0 | 48,5 | 53,1 | 59,4 | 66,7 | 79,6 | 89,6 | 99,7 | 95,8 |
| | 9,00 | 111 | 6,93 | 9,59 | 14,9 | 19,6 | 24,2 | 28,3 | 31,1 | 33,6 | 37,2 | 42,2 | 46,5 | 54,2 | 60,6 | 68,0 | 71,3 | 80,3 | 89,4 | 107,1 |
| | 10,0 | 100 | 5,91 | 9,46 | 15,0 | 19,6 | 24,3 | 25,2 | 27,7 | 29,9 | 35,8 | 40,6 | 44,8 | 45,7 | 51,1 | 57,3 | 75,5 | 85,0 | 94,6 | 97,2 |
| | 11,2 | 89 | 6,18 | 10,0 | 16,0 | 21,6 | 26,6 | 29,1 | 32,1 | 34,6 | 38,9 | 44,1 | 48,7 | 55,7 | 62,3 | 69,9 | 84,9 | 95,6 | 106,3 | 101,4 |
| | 12,5 | 80 | 7,08 | 9,85 | 15,5 | 20,4 | 25,3 | 29,4 | 32,3 | 34,9 | 37,7 | 42,8 | 47,2 | 56,8 | 63,4 | 71,2 | | | | 114,3 |
| 900 | 6,30 | 143 | | | | | | | | | | | | | | | 66,6 | 75,0 | 83,5 | |
| | 7,10 | 127 | 5,98 | 9,64 | 15,0 | 19,2 | 23,7 | 24,4 | 26,9 | 29,0 | 37,1 | 42,0 | 46,3 | 44,0 | 49,2 | 55,2 | 73,7 | 83,0 | 92,3 | 90,9 |
| | 8,00 | 113 | 6,23 | 10,1 | 15,9 | 21,5 | 26,6 | 27,9 | 30,7 | 33,2 | 40,1 | 45,4 | 50,1 | 54,8 | 61,3 | 68,8 | 79,6 | 89,6 | 99,7 | 98,9 |
| | 9,00 | 100 | 7,15 | 9,89 | 15,4 | 20,2 | 25,0 | 29,2 | 32,2 | 34,7 | 38,4 | 43,6 | 48,0 | 56,0 | 62,6 | 70,2 | 73,6 | 82,9 | 92,2 | 107,1 |
| | 10,0 | 90 | 6,10 | 9,76 | 15,5 | 20,3 | 25,0 | 26,0 | 28,6 | 30,9 | 37,0 | 41,9 | 46,2 | 45,7 | 51,1 | 57,3 | 77,9 | 87,8 | 97,6 | 100,3 |
| | 11,2 | 80 | 6,38 | 10,3 | 16,5 | 22,2 | 27,5 | 30,1 | 33,1 | 35,8 | 40,2 | 45,5 | 50,2 | 57,5 | 64,3 | 72,1 | 87,6 | 98,7 | 109,7 | 104,6 |
| | 12,5 | 72 | 7,31 | 10,2 | 16,0 | 21,1 | 26,1 | 30,3 | 33,4 | 36,0 | 38,9 | 44,1 | 48,7 | 58,6 | 65,5 | 73,5 | | | | 117,9 |

Type VR3 Right Angle

Power Ratings – kW/Triple Reduction

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1800 | 12,5 | 144 | | | | | | | | | | | | | | | 982 | 1061 | 1142 | |
| | 14,0 | 129 | 91 | 139 | 238 | 241 | 283 | 329 | 364 | 402 | 457 | 510 | 578 | 664 | 760 | 842 | 982 | 1061 | 1142 | 1142 |
| | 16,0 | 113 | 91 | 139 | 235 | 241 | 283 | 329 | 364 | 402 | 457 | 510 | 578 | 664 | 760 | 842 | 982 | 1061 | 1142 | 1142 |
| | 18,0 | 100 | 91 | 130 | 214 | 241 | 283 | 329 | 364 | 402 | 457 | 510 | 578 | 664 | 760 | 842 | 939 | 1015 | 1092 | 1142 |
| | 20,0 | 90 | 78 | 121 | 194 | 224 | 264 | 305 | 338 | 373 | 447 | 499 | 565 | 613 | 702 | 778 | 801 | 865 | 932 | 1136 |
| | 22,4 | 80 | 77 | 108 | 170 | 208 | 245 | 272 | 301 | 333 | 394 | 439 | 497 | 547 | 626 | 694 | 761 | 822 | 885 | 1012 |
| | 25,0 | 72 | 70 | 94 | 162 | 196 | 231 | 247 | 274 | 302 | 344 | 384 | 435 | 493 | 564 | 625 | 696 | 752 | 810 | 943 |
| | 28,0 | 64 | 56 | 79 | 132 | 177 | 208 | 225 | 249 | 275 | 319 | 356 | 403 | 444 | 508 | 563 | 593 | 641 | 690 | 832 |
| | 31,5 | 57 | 55 | 79 | 117 | 151 | 178 | 202 | 224 | 247 | 281 | 314 | 355 | 396 | 453 | 502 | 563 | 608 | 654 | 749 |
| | 35,5 | 51 | 49 | 69 | 111 | 142 | 167 | 184 | 203 | 224 | 245 | 274 | 310 | 356 | 408 | 452 | 497 | 537 | 578 | 697 |
| | 40,0 | 45 | 44 | 61 | 98 | 127 | 150 | 167 | 185 | 204 | 224 | 250 | 283 | 312 | 357 | 396 | 423 | 457 | 492 | 584 |
| | 45,0 | 40 | 39 | 55 | 84 | 108 | 126 | 147 | 163 | 180 | 197 | 220 | 249 | 278 | 318 | 353 | 401 | 434 | 467 | 535 |
| | 50,0 | 36 | 35 | 48 | 80 | 101 | 119 | 133 | 147 | 163 | 172 | 192 | 217 | 250 | 286 | 317 | 357 | 385 | 415 | 497 |
| | 56,0 | 32 | 24 | 44 | 66 | 81 | 95 | 112 | 124 | 137 | 150 | 167 | 189 | 225 | 257 | 285 | 304 | 328 | 353 | 431 |
| | 63,0 | 29 | 24 | 34 | 57 | 75 | 88 | 103 | 114 | 126 | 144 | 161 | 182 | 200 | 229 | 254 | 288 | 311 | 334 | 383 |
| | 71,0 | 25 | 24 | 34 | 57 | 72 | 84 | 94 | 104 | 114 | 126 | 140 | 159 | 180 | 206 | 228 | 233 | 251 | 271 | 356 |
| | 80,0 | 23 | 21 | 27 | 48 | 60 | 71 | 81 | 89 | 99 | 100 | 112 | 127 | 157 | 180 | 199 | 220 | 238 | 256 | 281 |
| | 90,0 | 20 | 20 | 27 | 45 | 56 | 66 | 74 | 82 | 91 | 97 | 108 | 123 | 141 | 162 | 179 | 196 | 211 | 228 | 273 |
| | 100 | 18 | 14 | 23 | 37 | 45 | 53 | 61 | 67 | 74 | 87 | 97 | 110 | 127 | 145 | 161 | 166 | 180 | 193 | 237 |
| | 112 | 16 | 14 | 18 | 31 | 41 | 48 | 57 | 64 | 70 | 81 | 91 | 103 | 113 | 129 | 143 | 158 | 170 | 183 | 210 |
| 125 | 14 | 14 | 18 | 31 | 40 | 47 | 52 | 58 | 64 | 71 | 79 | 90 | 102 | 116 | 129 | | | | 195 | |
| 1500 | 12,5 | 120 | | | | | | | | | | | | | | | 865 | 934 | 1005 | |
| | 14,0 | 107 | 80 | 116 | 198 | 212 | 249 | 289 | 320 | 353 | 402 | 449 | 508 | 585 | 669 | 741 | 865 | 934 | 1005 | 1005 |
| | 16,0 | 94 | 80 | 116 | 197 | 212 | 249 | 289 | 320 | 353 | 402 | 449 | 508 | 585 | 669 | 741 | 863 | 932 | 1003 | 1005 |
| | 18,0 | 83 | 80 | 109 | 187 | 212 | 249 | 289 | 320 | 353 | 395 | 441 | 499 | 585 | 669 | 741 | 789 | 852 | 917 | 1005 |
| | 20,0 | 75 | 69 | 101 | 162 | 197 | 232 | 254 | 282 | 311 | 375 | 418 | 473 | 514 | 588 | 652 | 672 | 726 | 782 | 954 |
| | 22,4 | 67 | 66 | 91 | 143 | 174 | 205 | 228 | 252 | 278 | 330 | 368 | 417 | 459 | 525 | 582 | 638 | 689 | 742 | 849 |
| | 25,0 | 60 | 58 | 79 | 135 | 164 | 193 | 207 | 229 | 253 | 288 | 321 | 364 | 413 | 472 | 524 | 583 | 630 | 678 | 791 |
| | 28,0 | 54 | 49 | 66 | 110 | 148 | 174 | 188 | 208 | 229 | 267 | 298 | 338 | 372 | 425 | 471 | 497 | 537 | 578 | 705 |
| | 31,5 | 48 | 46 | 66 | 98 | 126 | 148 | 169 | 187 | 207 | 235 | 262 | 297 | 331 | 379 | 420 | 471 | 509 | 548 | 627 |
| | 35,5 | 42 | 41 | 57 | 93 | 119 | 140 | 153 | 170 | 187 | 205 | 229 | 259 | 298 | 341 | 378 | 416 | 449 | 484 | 584 |
| | 40,0 | 38 | 37 | 51 | 81 | 106 | 125 | 139 | 154 | 170 | 187 | 209 | 236 | 261 | 298 | 331 | 354 | 382 | 412 | 487 |
| | 45,0 | 33 | 33 | 46 | 71 | 90 | 106 | 123 | 136 | 150 | 164 | 183 | 208 | 232 | 266 | 295 | 336 | 362 | 390 | 447 |
| | 50,0 | 30 | 29 | 40 | 67 | 84 | 99 | 111 | 123 | 136 | 143 | 160 | 181 | 209 | 239 | 265 | 298 | 322 | 347 | 416 |
| | 56,0 | 27 | 21 | 37 | 55 | 68 | 79 | 94 | 104 | 115 | 128 | 142 | 161 | 188 | 215 | 238 | 254 | 274 | 295 | 361 |
| | 63,0 | 24 | 21 | 29 | 47 | 62 | 73 | 86 | 95 | 105 | 120 | 134 | 152 | 167 | 191 | 212 | 240 | 259 | 279 | 320 |
| | 71,0 | 21 | 21 | 29 | 47 | 60 | 70 | 78 | 86 | 95 | 105 | 117 | 133 | 150 | 172 | 191 | 194 | 210 | 226 | 298 |
| | 80,0 | 19 | 18 | 24 | 40 | 50 | 59 | 68 | 76 | 84 | 88 | 98 | 111 | 131 | 150 | 166 | 184 | 199 | 214 | 245 |
| | 90,0 | 17 | 17 | 22 | 38 | 47 | 55 | 62 | 69 | 76 | 81 | 90 | 102 | 118 | 135 | 150 | 163 | 176 | 190 | 228 |
| | 100 | 15 | 12 | 19 | 31 | 38 | 45 | 51 | 56 | 62 | 73 | 81 | 92 | 106 | 121 | 134 | 139 | 150 | 161 | 197 |
| | 112 | 13 | 12 | 15 | 26 | 34 | 40 | 48 | 53 | 59 | 68 | 76 | 86 | 94 | 108 | 120 | 131 | 142 | 153 | 175 |
| 125 | 12 | 12 | 15 | 26 | 33 | 39 | 43 | 48 | 53 | 59 | 66 | 75 | 85 | 97 | 107 | | | | 163 | |

Type VR3 Right Angle

Torque Ratings – kNm/Triple Reduction

(kNm AT LOW SPEED SHAFT)

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1800 | 12,5 | 144 | | | | | | | | | | | | | | | | 71,6 | 77,3 | 83,3 |
| | 14,0 | 129 | 7,05 | 10,6 | 18,0 | 18,4 | 21,7 | 24,6 | 27,2 | 30,0 | 34,9 | 38,9 | 44,1 | 50,7 | 58,0 | 64,3 | 79,2 | 85,6 | 92,1 | 90,7 |
| | 16,0 | 113 | 7,71 | 12,1 | 20,0 | 20,7 | 24,4 | 27,5 | 30,4 | 33,6 | 40,4 | 45,1 | 51,0 | 55,9 | 63,9 | 70,9 | 90,5 | 97,8 | 105,3 | 98,7 |
| | 18,0 | 100 | 8,59 | 12,8 | 19,6 | 22,4 | 26,3 | 31,6 | 34,9 | 38,6 | 43,7 | 48,7 | 55,2 | 61,8 | 70,7 | 78,4 | 93,6 | 101,1 | 108,9 | 113,2 |
| | 20,0 | 90 | 8,28 | 12,8 | 20,4 | 24,0 | 28,2 | 33,1 | 36,6 | 40,4 | 47,2 | 52,7 | 59,6 | 67,7 | 77,5 | 85,9 | 88,3 | 95,4 | 102,7 | 123,4 |
| | 22,4 | 80 | 8,90 | 13,1 | 20,1 | 25,0 | 29,4 | 33,0 | 36,5 | 40,3 | 48,2 | 53,7 | 60,8 | 66,6 | 76,2 | 84,4 | 95,9 | 103,6 | 111,5 | 119,5 |
| | 25,0 | 72 | 9,05 | 12,9 | 20,7 | 25,5 | 30,0 | 34,4 | 38,1 | 42,1 | 45,5 | 50,8 | 57,5 | 66,3 | 75,9 | 84,1 | 94,8 | 102,3 | 110,2 | 127,7 |
| | 28,0 | 64 | 8,53 | 11,5 | 20,4 | 26,3 | 30,9 | 33,1 | 36,6 | 40,4 | 47,7 | 53,2 | 60,2 | 68,4 | 78,3 | 86,8 | 89,3 | 96,5 | 103,8 | 123,4 |
| | 31,5 | 57 | 9,23 | 13,1 | 20,3 | 25,2 | 29,6 | 33,3 | 36,8 | 40,6 | 48,6 | 54,2 | 61,4 | 67,2 | 76,9 | 85,2 | 96,8 | 104,6 | 112,6 | 120,8 |
| | 35,5 | 51 | 9,09 | 12,9 | 20,8 | 25,6 | 30,1 | 34,7 | 38,3 | 42,3 | 45,9 | 51,2 | 57,9 | 66,9 | 76,5 | 84,8 | 95,6 | 103,3 | 111,2 | 129,0 |
| | 40,0 | 45 | 9,56 | 12,9 | 20,9 | 26,7 | 31,4 | 33,9 | 37,5 | 41,4 | 48,0 | 53,6 | 60,7 | 69,0 | 78,9 | 87,5 | 90,1 | 97,3 | 104,7 | 122,4 |
| | 45,0 | 40 | 9,26 | 13,2 | 20,4 | 25,3 | 29,8 | 33,4 | 37,0 | 40,8 | 48,9 | 54,6 | 61,8 | 67,7 | 77,4 | 85,8 | 97,6 | 105,4 | 113,5 | 121,9 |
| | 50,0 | 36 | 9,12 | 13,0 | 20,9 | 25,7 | 30,3 | 34,8 | 38,5 | 42,5 | 46,1 | 51,5 | 58,3 | 67,3 | 77,0 | 85,4 | 96,3 | 104,0 | 111,9 | 130,0 |
| | 56,0 | 32 | 7,21 | 13,2 | 20,4 | 24,5 | 28,8 | 32,6 | 36,0 | 39,8 | 44,1 | 49,2 | 55,7 | 69,3 | 79,3 | 87,9 | 90,6 | 97,9 | 105,4 | 126,8 |
| | 63,0 | 29 | 7,89 | 11,2 | 19,2 | 24,8 | 29,2 | 33,6 | 37,1 | 41,0 | 49,1 | 54,8 | 62,0 | 68,0 | 77,8 | 86,2 | 98,1 | 106,0 | 114,1 | 122,6 |
| | 71,0 | 25 | 8,78 | 12,6 | 20,8 | 25,8 | 30,4 | 34,9 | 38,7 | 42,7 | 46,3 | 51,7 | 58,5 | 67,6 | 77,4 | 85,8 | 90,9 | 98,2 | 105,7 | 130,7 |
| | 80,0 | 23 | 8,48 | 11,9 | 20,5 | 25,5 | 29,9 | 33,1 | 36,7 | 40,5 | 44,3 | 49,4 | 55,9 | 68,2 | 78,0 | 86,5 | 98,4 | 106,3 | 114,4 | 117,6 |
| | 90,0 | 20 | 9,15 | 13,0 | 21,0 | 25,9 | 30,4 | 35,0 | 38,7 | 42,8 | 46,4 | 51,8 | 58,6 | 67,8 | 77,6 | 86,0 | 97,0 | 104,7 | 112,7 | 131,1 |
| | 100 | 18 | 7,58 | 12,5 | 20,4 | 24,8 | 29,1 | 31,9 | 35,3 | 39,0 | 45,5 | 50,7 | 57,4 | 69,7 | 79,7 | 88,4 | 91,2 | 98,5 | 106,1 | 127,7 |
| | 112 | 16 | 8,29 | 10,7 | 18,9 | 24,5 | 28,8 | 33,7 | 37,3 | 41,2 | 49,3 | 55,0 | 62,3 | 68,4 | 78,2 | 86,7 | 98,7 | 106,6 | 114,8 | 123,4 |
| 125 | 14 | 9,16 | 12,0 | 20,4 | 25,9 | 30,5 | 35,1 | 38,8 | 42,9 | 46,5 | 51,9 | 58,8 | 67,9 | 77,7 | 86,2 | | | | 131,5 | |
| 1500 | 12,5 | 120 | | | | | | | | | | | | | | | | 75,6 | 81,7 | 88,0 |
| | 14,0 | 107 | 7,45 | 10,6 | 18,0 | 19,5 | 22,9 | 25,9 | 28,7 | 31,7 | 36,9 | 41,1 | 46,6 | 53,6 | 61,3 | 67,9 | 83,7 | 90,4 | 97,3 | 95,8 |
| | 16,0 | 94 | 8,14 | 12,1 | 20,1 | 21,9 | 25,7 | 29,0 | 32,1 | 35,5 | 42,7 | 47,6 | 53,9 | 59,0 | 67,5 | 74,8 | 95,4 | 103,0 | 110,9 | 104,2 |
| | 18,0 | 83 | 9,03 | 12,8 | 20,6 | 23,6 | 27,8 | 33,4 | 36,9 | 40,7 | 45,3 | 50,5 | 57,2 | 65,3 | 74,7 | 82,8 | 94,3 | 101,9 | 109,7 | 119,5 |
| | 20,0 | 75 | 8,75 | 12,8 | 20,4 | 25,3 | 29,8 | 33,1 | 36,6 | 40,4 | 47,5 | 53,0 | 60,0 | 68,1 | 78,0 | 86,4 | 88,9 | 96,1 | 103,4 | 124,3 |
| | 22,4 | 67 | 9,20 | 13,2 | 20,2 | 25,1 | 29,6 | 33,2 | 36,7 | 40,5 | 48,4 | 54,0 | 61,1 | 66,9 | 76,6 | 84,9 | 96,5 | 104,2 | 112,2 | 120,3 |
| | 25,0 | 60 | 9,07 | 12,9 | 20,7 | 25,6 | 30,1 | 34,6 | 38,3 | 42,2 | 45,7 | 51,0 | 57,7 | 66,6 | 76,3 | 84,5 | 95,3 | 102,9 | 110,8 | 128,5 |
| | 28,0 | 54 | 9,01 | 11,6 | 20,4 | 26,3 | 30,9 | 33,1 | 36,6 | 40,4 | 47,9 | 53,4 | 60,5 | 68,7 | 78,6 | 87,1 | 89,7 | 96,9 | 104,4 | 125,5 |
| | 31,5 | 48 | 9,24 | 13,2 | 20,3 | 25,3 | 29,7 | 33,4 | 36,9 | 40,8 | 48,8 | 54,4 | 61,6 | 67,5 | 77,2 | 85,6 | 97,3 | 105,0 | 113,1 | 121,4 |
| | 35,5 | 42 | 9,11 | 12,9 | 20,8 | 25,7 | 30,2 | 34,8 | 38,5 | 42,5 | 46,0 | 51,3 | 58,1 | 67,1 | 76,8 | 85,1 | 96,0 | 103,7 | 111,6 | 129,6 |
| | 40,0 | 38 | 9,57 | 13,0 | 20,9 | 26,7 | 31,4 | 33,9 | 37,5 | 41,4 | 48,2 | 53,7 | 60,9 | 69,2 | 79,1 | 87,7 | 90,4 | 97,6 | 105,1 | 122,4 |
| | 45,0 | 33 | 9,27 | 13,3 | 20,4 | 25,4 | 29,8 | 33,5 | 37,1 | 40,9 | 49,0 | 54,7 | 61,9 | 67,9 | 77,7 | 86,1 | 97,9 | 105,7 | 113,8 | 122,3 |
| | 50,0 | 30 | 9,13 | 13,0 | 20,9 | 25,8 | 30,3 | 34,9 | 38,6 | 42,6 | 46,3 | 51,6 | 58,4 | 67,5 | 77,2 | 85,6 | 96,5 | 104,3 | 112,2 | 130,4 |
| | 56,0 | 27 | 7,62 | 13,2 | 20,4 | 24,6 | 28,9 | 32,7 | 36,2 | 40,0 | 45,0 | 50,3 | 56,9 | 69,5 | 79,5 | 88,1 | 90,8 | 98,1 | 105,6 | 127,2 |
| | 63,0 | 24 | 8,33 | 11,2 | 19,2 | 24,9 | 29,3 | 33,6 | 37,2 | 41,1 | 49,2 | 54,9 | 62,1 | 68,1 | 78,0 | 86,4 | 98,3 | 106,2 | 114,3 | 122,9 |
| | 71,0 | 21 | 9,15 | 12,6 | 20,8 | 25,9 | 30,4 | 35,0 | 38,7 | 42,8 | 46,4 | 51,8 | 58,6 | 67,7 | 77,5 | 85,9 | 91,1 | 98,4 | 105,9 | 131,0 |
| | 80,0 | 19 | 8,96 | 12,5 | 20,5 | 25,5 | 30,0 | 33,7 | 37,3 | 41,1 | 46,8 | 52,2 | 59,1 | 68,3 | 78,1 | 86,6 | 98,6 | 106,5 | 114,6 | 123,3 |
| | 90,0 | 17 | 9,16 | 13,0 | 21,0 | 25,9 | 30,5 | 35,0 | 38,8 | 42,8 | 46,5 | 51,9 | 58,7 | 67,9 | 77,7 | 86,1 | 97,1 | 104,9 | 112,9 | 131,3 |
| | 100 | 15 | 7,58 | 12,5 | 20,4 | 24,8 | 29,2 | 31,9 | 35,3 | 39,0 | 45,6 | 50,9 | 57,6 | 69,8 | 79,8 | 88,5 | 91,3 | 98,7 | 106,2 | 127,9 |
| | 112 | 13 | 8,29 | 10,7 | 18,9 | 24,5 | 28,8 | 33,7 | 37,3 | 41,2 | 49,4 | 55,1 | 62,4 | 68,4 | 78,3 | 86,8 | 98,8 | 106,7 | 114,9 | 123,6 |
| 125 | 12 | 9,17 | 12,0 | 20,4 | 25,9 | 30,5 | 35,1 | 38,8 | 42,9 | 46,6 | 52,0 | 58,8 | 68,0 | 77,8 | 86,3 | | | | 131,6 | |

Type VR3 Right Angle

Power Ratings – kW/Triple Reduction

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|------|------|------|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1800 | 8,00 | 225 | 2106 | 2355 | 2592 | | | 3067 | 3539 | 3875 | | | |
| | 9,00 | 200 | 2106 | 2355 | 2592 | 2365 | 2592 | 3067 | 3539 | 3875 | 3501 | 3689 | 3875 |
| | 10,0 | 180 | 2106 | 2355 | 2592 | 2365 | 2592 | 3067 | 3539 | 3875 | 3501 | 3689 | 3875 |
| | 11,2 | 160 | 1918 | 2144 | 2360 | 2365 | 2592 | 3067 | 3539 | 3875 | 3501 | 3689 | 3875 |
| | 12,5 | 144 | 1780 | 1990 | 2191 | 2427 | 2659 | 2684 | 3097 | 3391 | 3501 | 3689 | 3875 |
| | 14,0 | 129 | 1529 | 1709 | 1881 | 1999 | 2191 | 2684 | 3097 | 3391 | 3063 | 3228 | 3391 |
| | 16,0 | 113 | 1524 | 1703 | 1875 | 1934 | 2120 | 2650 | 3057 | 3347 | 3063 | 3228 | 3391 |
| | 18,0 | 100 | 1390 | 1554 | 1710 | 1895 | 2076 | 2277 | 2627 | 2876 | 3063 | 3228 | 3391 |
| | 20,0 | 90 | 1147 | 1283 | 1412 | 1708 | 1872 | 1976 | 2280 | 2496 | 2651 | 2793 | 2935 |
| | 22,4 | 80 | 1142 | 1277 | 1405 | 1452 | 1591 | 1930 | 2226 | 2438 | 2475 | 2607 | 2739 |
| | 25,0 | 72 | 1031 | 1152 | 1268 | 1420 | 1556 | 1572 | 1813 | 1985 | 2396 | 2525 | 2652 |
| | 28,0 | 64 | 850 | 950 | 1046 | 1252 | 1372 | 1445 | 1667 | 1826 | 1968 | 2074 | 2178 |
| | 31,5 | 57 | 845 | 945 | 1040 | 1075 | 1178 | 1410 | 1626 | 1781 | 1788 | 1884 | 1979 |
| | 35,5 | 51 | 730 | 816 | 899 | 1051 | 1152 | 1146 | 1322 | 1448 | 1725 | 1818 | 1909 |
| | 40,0 | 45 | 601 | 672 | 740 | 897 | 983 | 991 | 1143 | 1252 | 1308 | 1379 | 1448 |
| | 45,0 | 40 | 598 | 668 | 736 | 761 | 834 | 966 | 1114 | 1220 | 1241 | 1308 | 1374 |
| | 50,0 | 36 | 515 | 576 | 634 | 744 | 815 | 800 | 922 | 1010 | 1206 | 1271 | 1335 |
| | 56,0 | 32 | 429 | 480 | 528 | 578 | 634 | 737 | 851 | 931 | 972 | 1025 | 1076 |
| | 63,0 | 29 | 426 | 476 | 524 | 543 | 595 | 718 | 828 | 907 | 844 | 889 | 934 |
| | 71,0 | 25 | 340 | 380 | 419 | 530 | 581 | 557 | 643 | 704 | 844 | 889 | 934 |
| 80,0 | 23 | 338 | 378 | 416 | 431 | 472 | 543 | 626 | 686 | 663 | 699 | 734 | |
| 90,0 | 20 | 294 | 329 | 362 | 420 | 461 | 449 | 518 | 567 | 663 | 699 | 734 | |
| 100 | 18 | 242 | 271 | 298 | 331 | 363 | 397 | 458 | 502 | 562 | 592 | 622 | |
| 112 | 16 | 240 | 269 | 296 | 306 | 336 | 397 | 458 | 502 | 453 | 477 | 502 | |
| 125 | 14 | | | | 299 | 328 | | | | 453 | 477 | 502 | |
| 1500 | 8,00 | 188 | 1854 | 2073 | 2282 | | | 2591 | 2990 | 3274 | | | |
| | 9,00 | 167 | 1854 | 2073 | 2282 | 2082 | 2282 | 2591 | 2990 | 3274 | 2957 | 3116 | 3274 |
| | 10,0 | 150 | 1854 | 2073 | 2282 | 2082 | 2282 | 2591 | 2990 | 3274 | 2957 | 3116 | 3274 |
| | 11,2 | 134 | 1621 | 1812 | 1994 | 2082 | 2282 | 2591 | 2990 | 3274 | 2957 | 3116 | 3274 |
| | 12,5 | 120 | 1509 | 1686 | 1857 | 2050 | 2247 | 2266 | 2614 | 2863 | 2957 | 3116 | 3274 |
| | 14,0 | 107 | 1288 | 1439 | 1585 | 1694 | 1857 | 2266 | 2614 | 2863 | 2586 | 2725 | 2863 |
| | 16,0 | 94 | 1282 | 1433 | 1578 | 1629 | 1786 | 2236 | 2580 | 2825 | 2586 | 2725 | 2863 |
| | 18,0 | 83 | 1168 | 1306 | 1438 | 1595 | 1748 | 1918 | 2212 | 2422 | 2586 | 2725 | 2863 |
| | 20,0 | 75 | 963 | 1077 | 1186 | 1435 | 1573 | 1662 | 1918 | 2100 | 2209 | 2328 | 2445 |
| | 22,4 | 67 | 958 | 1071 | 1180 | 1219 | 1336 | 1622 | 1872 | 2049 | 2082 | 2193 | 2304 |
| | 25,0 | 60 | 864 | 966 | 1064 | 1192 | 1306 | 1319 | 1522 | 1667 | 1997 | 2104 | 2210 |
| | 28,0 | 54 | 712 | 796 | 876 | 1053 | 1154 | 1212 | 1399 | 1532 | 1652 | 1741 | 1829 |
| | 31,5 | 48 | 708 | 791 | 871 | 901 | 988 | 1182 | 1364 | 1493 | 1508 | 1589 | 1669 |
| | 35,5 | 42 | 611 | 683 | 752 | 880 | 965 | 956 | 1103 | 1207 | 1437 | 1515 | 1591 |
| | 40,0 | 38 | 503 | 562 | 619 | 751 | 823 | 830 | 957 | 1048 | 1090 | 1149 | 1207 |
| | 45,0 | 33 | 500 | 559 | 615 | 637 | 698 | 808 | 932 | 1021 | 1039 | 1095 | 1150 |
| | 50,0 | 30 | 433 | 484 | 533 | 622 | 681 | 669 | 771 | 845 | 1005 | 1059 | 1113 |
| | 56,0 | 27 | 359 | 401 | 441 | 486 | 533 | 616 | 711 | 778 | 837 | 882 | 927 |
| | 63,0 | 24 | 356 | 398 | 438 | 454 | 497 | 600 | 692 | 758 | 703 | 741 | 778 |
| | 71,0 | 21 | 284 | 318 | 350 | 443 | 485 | 466 | 537 | 588 | 703 | 741 | 778 |
| 80,0 | 19 | 282 | 315 | 347 | 360 | 394 | 453 | 523 | 573 | 569 | 600 | 630 | |
| 90,0 | 17 | 246 | 275 | 302 | 351 | 385 | 375 | 432 | 473 | 559 | 589 | 618 | |
| 100 | 15 | 202 | 226 | 249 | 276 | 302 | 331 | 382 | 418 | 469 | 494 | 519 | |
| 112 | 13 | 201 | 224 | 247 | 256 | 280 | 331 | 382 | 418 | 378 | 398 | 418 | |
| 125 | 12 | | | | 249 | 273 | | | | 378 | 398 | 418 | |

Forced lubrication may be required. Consult factory

Type VR3 Right Angle

Torque Ratings – kNm/Triple Reduction

(kNm AT LOW SPEED SHAFT)

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1800 | 8,00 | 225 | 94 | 105 | 115 | | | 128 | 148 | 162 | | | |
| | 9,00 | 200 | 106 | 118 | 130 | 117 | 129 | 148 | 170 | 186 | 164 | 173 | 181 |
| | 10,0 | 180 | 116 | 129 | 142 | 131 | 143 | 161 | 186 | 204 | 188 | 198 | 208 |
| | 11,2 | 160 | 121 | 135 | 149 | 143 | 156 | 179 | 207 | 226 | 205 | 216 | 227 |
| | 12,5 | 144 | 127 | 142 | 156 | 168 | 185 | 175 | 202 | 222 | 228 | 241 | 253 |
| | 14,0 | 129 | 123 | 138 | 152 | 159 | 174 | 202 | 233 | 255 | 224 | 236 | 248 |
| | 16,0 | 113 | 134 | 150 | 165 | 171 | 188 | 218 | 251 | 275 | 257 | 271 | 285 |
| | 18,0 | 100 | 134 | 150 | 165 | 183 | 201 | 209 | 241 | 264 | 280 | 295 | 310 |
| | 20,0 | 90 | 125 | 140 | 154 | 184 | 201 | 209 | 241 | 264 | 272 | 287 | 301 |
| | 22,4 | 80 | 136 | 152 | 168 | 174 | 191 | 223 | 257 | 281 | 292 | 307 | 323 |
| | 25,0 | 72 | 136 | 152 | 168 | 186 | 204 | 211 | 244 | 267 | 308 | 324 | 341 |
| | 28,0 | 64 | 127 | 142 | 156 | 184 | 202 | 212 | 245 | 268 | 295 | 311 | 327 |
| | 31,5 | 57 | 138 | 154 | 170 | 177 | 193 | 226 | 261 | 285 | 293 | 308 | 324 |
| | 35,5 | 51 | 138 | 154 | 170 | 188 | 206 | 216 | 249 | 272 | 308 | 324 | 341 |
| | 40,0 | 45 | 128 | 143 | 158 | 188 | 206 | 215 | 248 | 271 | 276 | 290 | 305 |
| | 45,0 | 40 | 139 | 156 | 171 | 178 | 195 | 229 | 264 | 289 | 300 | 316 | 332 |
| | 50,0 | 36 | 137 | 153 | 169 | 190 | 208 | 216 | 249 | 273 | 318 | 335 | 352 |
| | 56,0 | 32 | 129 | 144 | 159 | 171 | 188 | 216 | 249 | 273 | 293 | 309 | 324 |
| | 63,0 | 29 | 140 | 157 | 172 | 180 | 197 | 230 | 266 | 291 | 276 | 291 | 306 |
| | 71,0 | 25 | 129 | 145 | 159 | 191 | 209 | 217 | 251 | 274 | 301 | 317 | 333 |
| 80,0 | 23 | 140 | 157 | 173 | 180 | 197 | 231 | 267 | 292 | 289 | 304 | 319 | |
| 90,0 | 20 | 140 | 156 | 172 | 192 | 210 | 218 | 251 | 275 | 315 | 331 | 348 | |
| 100 | 18 | 130 | 145 | 160 | 175 | 192 | 209 | 242 | 265 | 304 | 321 | 337 | |
| 112 | 16 | 141 | 158 | 173 | 181 | 198 | 229 | 264 | 289 | 267 | 281 | 295 | |
| 125 | 14 | | | | 192 | 211 | | | | 291 | 306 | 322 | |
| 1500 | 8,00 | 188 | 99 | 111 | 122 | | | 130 | 150 | 164 | | | |
| | 9,00 | 167 | 112 | 125 | 138 | 124 | 136 | 150 | 173 | 189 | 166 | 175 | 184 |
| | 10,0 | 150 | 122 | 137 | 150 | 138 | 151 | 163 | 189 | 207 | 190 | 201 | 211 |
| | 11,2 | 134 | 123 | 137 | 151 | 151 | 165 | 182 | 210 | 230 | 208 | 219 | 230 |
| | 12,5 | 120 | 129 | 144 | 159 | 171 | 187 | 178 | 205 | 225 | 231 | 244 | 256 |
| | 14,0 | 107 | 125 | 139 | 153 | 161 | 177 | 205 | 236 | 258 | 227 | 239 | 251 |
| | 16,0 | 94 | 136 | 151 | 167 | 173 | 190 | 221 | 255 | 279 | 261 | 275 | 288 |
| | 18,0 | 83 | 136 | 152 | 167 | 185 | 203 | 211 | 243 | 267 | 284 | 299 | 314 |
| | 20,0 | 75 | 126 | 141 | 155 | 185 | 203 | 211 | 243 | 266 | 272 | 287 | 301 |
| | 22,4 | 67 | 137 | 153 | 169 | 176 | 193 | 225 | 259 | 284 | 294 | 310 | 326 |
| | 25,0 | 60 | 137 | 153 | 169 | 187 | 205 | 213 | 245 | 269 | 308 | 324 | 341 |
| | 28,0 | 54 | 128 | 143 | 157 | 186 | 204 | 213 | 246 | 270 | 297 | 313 | 329 |
| | 31,5 | 48 | 139 | 155 | 171 | 178 | 195 | 227 | 262 | 287 | 296 | 312 | 328 |
| | 35,5 | 42 | 138 | 155 | 170 | 189 | 207 | 216 | 249 | 273 | 308 | 324 | 341 |
| | 40,0 | 38 | 129 | 144 | 158 | 189 | 207 | 216 | 249 | 272 | 276 | 290 | 305 |
| | 45,0 | 33 | 140 | 156 | 172 | 179 | 196 | 230 | 265 | 290 | 301 | 318 | 334 |
| | 50,0 | 30 | 138 | 155 | 170 | 191 | 209 | 217 | 250 | 274 | 318 | 335 | 352 |
| | 56,0 | 27 | 129 | 145 | 159 | 173 | 189 | 217 | 250 | 274 | 303 | 319 | 335 |
| | 63,0 | 24 | 140 | 157 | 173 | 180 | 197 | 231 | 266 | 292 | 276 | 291 | 306 |
| | 71,0 | 21 | 130 | 145 | 160 | 192 | 210 | 218 | 251 | 275 | 301 | 317 | 333 |
| 80,0 | 19 | 141 | 157 | 173 | 181 | 198 | 232 | 267 | 293 | 297 | 313 | 329 | |
| 90,0 | 17 | 140 | 157 | 172 | 192 | 211 | 218 | 252 | 276 | 318 | 335 | 352 | |
| 100 | 15 | 130 | 145 | 160 | 175 | 192 | 209 | 242 | 265 | 305 | 321 | 338 | |
| 112 | 13 | 141 | 158 | 174 | 181 | 199 | 229 | 264 | 289 | 267 | 281 | 295 | |
| 125 | 12 | | | | 193 | 211 | | | | 291 | 306 | 322 | |

Forced lubrication may be required. Consult factory

Type VR3 Right Angle

Power Ratings – kW/Triple Reduction

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1200 | 12,5 | 96 | | | | | | | | | | | | | | | 740 | 799 | 860 | |
| | 14,0 | 86 | 68 | 92 | 159 | 181 | 213 | 247 | 274 | 302 | 344 | 384 | 435 | 500 | 572 | 634 | 733 | 792 | 852 | 860 |
| | 16,0 | 75 | 68 | 92 | 158 | 181 | 213 | 247 | 274 | 302 | 344 | 384 | 435 | 500 | 572 | 634 | 696 | 752 | 809 | 860 |
| | 18,0 | 67 | 64 | 88 | 150 | 181 | 213 | 239 | 265 | 292 | 318 | 355 | 402 | 476 | 544 | 603 | 636 | 686 | 739 | 860 |
| | 20,0 | 60 | 59 | 81 | 129 | 164 | 193 | 204 | 225 | 249 | 301 | 336 | 381 | 414 | 474 | 525 | 541 | 585 | 630 | 769 |
| | 22,4 | 54 | 53 | 73 | 114 | 140 | 165 | 183 | 203 | 224 | 265 | 296 | 335 | 369 | 422 | 468 | 513 | 555 | 597 | 684 |
| | 25,0 | 48 | 47 | 63 | 109 | 132 | 155 | 166 | 184 | 203 | 231 | 258 | 292 | 332 | 380 | 421 | 469 | 507 | 545 | 636 |
| | 28,0 | 43 | 42 | 53 | 88 | 118 | 139 | 150 | 166 | 184 | 215 | 239 | 271 | 298 | 342 | 379 | 399 | 431 | 464 | 567 |
| | 31,5 | 38 | 37 | 53 | 78 | 101 | 119 | 136 | 150 | 166 | 189 | 211 | 238 | 266 | 304 | 337 | 378 | 409 | 440 | 504 |
| | 35,5 | 34 | 33 | 46 | 74 | 95 | 112 | 123 | 136 | 150 | 165 | 184 | 208 | 239 | 274 | 303 | 334 | 361 | 388 | 469 |
| | 40,0 | 30 | 30 | 41 | 65 | 85 | 100 | 111 | 123 | 136 | 150 | 167 | 190 | 209 | 239 | 265 | 284 | 307 | 331 | 389 |
| | 45,0 | 27 | 26 | 37 | 57 | 72 | 85 | 98 | 109 | 120 | 132 | 147 | 167 | 186 | 213 | 236 | 269 | 291 | 313 | 359 |
| | 50,0 | 24 | 23 | 32 | 54 | 68 | 80 | 89 | 99 | 109 | 115 | 128 | 145 | 168 | 192 | 213 | 239 | 258 | 278 | 334 |
| | 56,0 | 21 | 17 | 30 | 44 | 54 | 64 | 75 | 83 | 92 | 103 | 115 | 130 | 151 | 172 | 191 | 203 | 220 | 237 | 289 |
| | 63,0 | 19 | 17 | 23 | 38 | 50 | 59 | 69 | 76 | 84 | 96 | 108 | 122 | 134 | 153 | 170 | 193 | 208 | 224 | 257 |
| | 71,0 | 17 | 16 | 23 | 38 | 48 | 56 | 63 | 69 | 76 | 84 | 94 | 106 | 120 | 138 | 153 | 156 | 168 | 181 | 239 |
| | 80,0 | 15 | 15 | 21 | 32 | 40 | 47 | 55 | 61 | 67 | 74 | 83 | 94 | 105 | 120 | 133 | 147 | 159 | 171 | 197 |
| | 90,0 | 13 | 13 | 18 | 30 | 38 | 44 | 50 | 55 | 61 | 65 | 72 | 82 | 94 | 108 | 120 | 131 | 141 | 152 | 183 |
| | 100 | 12 | 9.5 | 16 | 25 | 30 | 36 | 41 | 45 | 50 | 58 | 65 | 74 | 85 | 97 | 108 | 111 | 120 | 129 | 158 |
| | 112 | 11 | 9.5 | 12 | 21 | 27 | 32 | 38 | 42 | 47 | 54 | 61 | 69 | 76 | 86 | 96 | 105 | 114 | 122 | 140 |
| 125 | 10 | 9.4 | 12 | 21 | 27 | 31 | 35 | 38 | 42 | 47 | 53 | 60 | 68 | 78 | 86 | | | | 130 | |
| 1000 | 12,5 | 80 | | | | | | | | | | | | | | | 617 | 666 | 717 | |
| | 14,0 | 71 | 58 | 77 | 132 | 158 | 186 | 218 | 241 | 266 | 303 | 338 | 383 | 440 | 504 | 558 | 615 | 664 | 715 | 717 |
| | 16,0 | 63 | 58 | 77 | 132 | 158 | 186 | 218 | 241 | 266 | 303 | 338 | 383 | 440 | 504 | 558 | 583 | 630 | 678 | 717 |
| | 18,0 | 56 | 53 | 73 | 125 | 153 | 180 | 200 | 221 | 244 | 266 | 297 | 336 | 398 | 456 | 505 | 532 | 575 | 619 | 717 |
| | 20,0 | 50 | 50 | 68 | 108 | 137 | 161 | 170 | 188 | 207 | 252 | 281 | 318 | 346 | 396 | 439 | 453 | 489 | 527 | 644 |
| | 22,4 | 45 | 44 | 61 | 96 | 117 | 138 | 153 | 169 | 187 | 222 | 247 | 280 | 309 | 353 | 391 | 430 | 464 | 500 | 572 |
| | 25,0 | 40 | 39 | 53 | 91 | 110 | 129 | 139 | 154 | 170 | 194 | 216 | 244 | 278 | 318 | 352 | 392 | 424 | 456 | 532 |
| | 28,0 | 36 | 35 | 45 | 73 | 98 | 116 | 125 | 139 | 153 | 179 | 200 | 227 | 249 | 285 | 316 | 334 | 361 | 388 | 474 |
| | 31,5 | 32 | 31 | 44 | 65 | 85 | 99 | 113 | 125 | 138 | 158 | 176 | 199 | 222 | 254 | 282 | 316 | 342 | 368 | 422 |
| | 35,5 | 28 | 27 | 38 | 62 | 79 | 94 | 103 | 114 | 126 | 138 | 153 | 174 | 200 | 229 | 253 | 279 | 301 | 324 | 392 |
| | 40,0 | 25 | 25 | 34 | 54 | 71 | 84 | 93 | 103 | 113 | 125 | 140 | 158 | 175 | 200 | 222 | 237 | 256 | 276 | 324 |
| | 45,0 | 22 | 22 | 31 | 47 | 60 | 71 | 82 | 91 | 100 | 110 | 123 | 139 | 156 | 178 | 197 | 225 | 243 | 261 | 300 |
| | 50,0 | 20 | 19 | 27 | 45 | 56 | 66 | 74 | 82 | 91 | 96 | 107 | 121 | 140 | 160 | 177 | 200 | 216 | 232 | 279 |
| | 56,0 | 18 | 14 | 25 | 37 | 45 | 53 | 63 | 70 | 77 | 86 | 96 | 108 | 126 | 144 | 159 | 170 | 183 | 197 | 241 |
| | 63,0 | 16 | 14 | 19 | 32 | 42 | 49 | 58 | 64 | 70 | 80 | 90 | 102 | 112 | 128 | 142 | 161 | 174 | 187 | 214 |
| | 71,0 | 14 | 14 | 19 | 32 | 40 | 47 | 52 | 58 | 64 | 70 | 78 | 89 | 101 | 115 | 127 | 130 | 140 | 151 | 199 |
| | 80,0 | 13 | 13 | 17 | 27 | 33 | 39 | 46 | 51 | 56 | 62 | 69 | 78 | 88 | 100 | 111 | 123 | 133 | 143 | 164 |
| | 90,0 | 11 | 11 | 15 | 25 | 31 | 37 | 41 | 46 | 51 | 54 | 60 | 68 | 79 | 90 | 100 | 109 | 118 | 127 | 152 |
| | 100 | 10 | 7.9 | 13 | 21 | 25 | 30 | 34 | 37 | 41 | 49 | 54 | 61 | 71 | 81 | 90 | 93 | 100 | 108 | 132 |
| | 112 | 9 | 7.9 | 10 | 17 | 23 | 27 | 32 | 35 | 39 | 45 | 51 | 57 | 63 | 72 | 80 | 88 | 95 | 102 | 117 |
| 125 | 8 | 7.9 | 10 | 17 | 22 | 26 | 29 | 32 | 35 | 40 | 44 | 50 | 57 | 65 | 72 | | | | 109 | |

Type VR3 Right Angle

Torque Ratings – kNm/Triple Reduction

(kNm AT LOW SPEED SHAFT)

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|--|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 | |
| 1200 | 12,5 | 96 | | | | | | | | | | | | | | | | 80,9 | 87,4 | 94,0 | |
| | 14,0 | 86 | 7,96 | 10,6 | 18,0 | 20,8 | 24,5 | 27,7 | 30,7 | 33,9 | 39,4 | 44,0 | 49,8 | 57,3 | 65,5 | 72,7 | 88,7 | 95,8 | 103,1 | 102,5 | |
| | 16,0 | 75 | 8,71 | 12,1 | 20,2 | 23,4 | 27,5 | 31,1 | 34,4 | 37,9 | 45,6 | 50,9 | 57,6 | 63,1 | 72,2 | 80,0 | 96,2 | 103,9 | 111,9 | 111,5 | |
| | 18,0 | 67 | 9,06 | 12,9 | 20,7 | 25,3 | 29,7 | 34,5 | 38,1 | 42,1 | 45,6 | 50,9 | 57,6 | 66,4 | 76,0 | 84,2 | 95,0 | 102,6 | 110,5 | 127,8 | |
| | 20,0 | 60 | 9,35 | 12,9 | 20,4 | 26,3 | 30,9 | 33,1 | 36,6 | 40,4 | 47,8 | 53,3 | 60,3 | 68,5 | 78,4 | 86,9 | 89,5 | 96,7 | 104,1 | 125,2 | |
| | 22,4 | 54 | 9,23 | 13,2 | 20,3 | 25,2 | 29,7 | 33,3 | 36,9 | 40,7 | 48,6 | 54,3 | 61,4 | 67,3 | 77,0 | 85,4 | 97,1 | 104,8 | 112,9 | 121,2 | |
| | 25,0 | 48 | 9,10 | 12,9 | 20,8 | 25,7 | 30,2 | 34,7 | 38,4 | 42,4 | 45,9 | 51,2 | 58,0 | 67,0 | 76,6 | 85,0 | 95,8 | 103,4 | 111,4 | 129,3 | |
| | 28,0 | 43 | 9,57 | 11,7 | 20,4 | 26,3 | 30,9 | 33,1 | 36,6 | 40,4 | 48,1 | 53,6 | 60,7 | 69,0 | 79,0 | 87,5 | 90,2 | 97,4 | 104,9 | 126,2 | |
| | 31,5 | 38 | 9,26 | 13,2 | 20,4 | 25,3 | 29,8 | 33,5 | 37,0 | 40,9 | 48,9 | 54,6 | 61,8 | 67,7 | 77,5 | 85,9 | 97,7 | 105,5 | 113,6 | 122,0 | |
| | 35,5 | 34 | 9,12 | 13,0 | 20,9 | 25,8 | 30,3 | 34,8 | 38,6 | 42,6 | 46,2 | 51,5 | 58,3 | 67,4 | 77,1 | 85,5 | 96,4 | 104,1 | 112,0 | 130,1 | |
| | 40,0 | 30 | 9,59 | 13,0 | 20,9 | 26,8 | 31,5 | 33,9 | 37,5 | 41,4 | 48,3 | 53,9 | 61,0 | 69,4 | 79,4 | 88,0 | 90,7 | 98,0 | 105,5 | 122,4 | |
| | 45,0 | 27 | 9,28 | 13,3 | 20,4 | 25,4 | 29,9 | 33,6 | 37,2 | 41,0 | 49,1 | 54,8 | 62,1 | 68,1 | 77,9 | 86,3 | 98,2 | 106,0 | 114,2 | 122,7 | |
| | 50,0 | 24 | 9,14 | 13,0 | 20,9 | 25,8 | 30,4 | 35,0 | 38,7 | 42,7 | 46,4 | 51,7 | 58,6 | 67,7 | 77,4 | 85,8 | 96,8 | 104,5 | 112,5 | 130,8 | |
| | 56,0 | 21 | 7,88 | 13,2 | 20,5 | 24,7 | 29,0 | 32,9 | 36,4 | 40,2 | 45,3 | 50,5 | 57,2 | 69,6 | 79,6 | 88,3 | 91,1 | 98,4 | 105,9 | 127,5 | |
| | 63,0 | 19 | 8,61 | 11,2 | 19,2 | 25,0 | 29,4 | 33,7 | 37,3 | 41,1 | 49,3 | 55,0 | 62,2 | 68,3 | 78,1 | 86,6 | 98,5 | 106,4 | 114,6 | 123,2 | |
| | 71,0 | 17 | 9,16 | 12,6 | 20,8 | 25,9 | 30,5 | 35,0 | 38,8 | 42,8 | 46,5 | 51,9 | 58,7 | 67,9 | 77,7 | 86,1 | 91,3 | 98,6 | 106,1 | 131,3 | |
| | 80,0 | 15 | 9,31 | 13,3 | 20,5 | 25,5 | 30,0 | 33,7 | 37,3 | 41,2 | 49,3 | 55,1 | 62,3 | 68,4 | 78,2 | 86,7 | 98,7 | 106,6 | 114,8 | 123,5 | |
| | 90,0 | 13 | 9,16 | 13,0 | 21,0 | 25,9 | 30,5 | 35,1 | 38,8 | 42,9 | 46,5 | 51,9 | 58,8 | 68,0 | 77,8 | 86,2 | 97,2 | 105,0 | 113,1 | 131,5 | |
| | 100 | 12 | 7,58 | 12,5 | 20,4 | 24,9 | 29,3 | 31,9 | 35,3 | 39,0 | 45,8 | 51,1 | 57,8 | 69,9 | 79,9 | 88,6 | 91,5 | 98,8 | 106,4 | 128,1 | |
| 112 | 11 | 8,29 | 10,7 | 18,9 | 24,5 | 28,8 | 33,8 | 37,4 | 41,3 | 49,4 | 55,1 | 62,4 | 68,5 | 78,4 | 86,9 | 98,9 | 106,8 | 115,0 | 123,8 | | |
| 125 | 10 | 9,17 | 12,0 | 20,4 | 26,0 | 30,5 | 35,1 | 38,9 | 42,9 | 46,6 | 52,0 | 58,9 | 68,1 | 77,9 | 86,3 | | | | 131,8 | | |
| 1000 | 12,5 | 80 | | | | | | | | | | | | | | | | 80,9 | 87,4 | 94,1 | |
| | 14,0 | 71 | 8,09 | 10,6 | 18,0 | 21,8 | 25,6 | 29,3 | 32,4 | 35,8 | 41,6 | 46,4 | 52,6 | 60,5 | 69,2 | 76,7 | 89,2 | 96,4 | 103,7 | 102,5 | |
| | 16,0 | 63 | 8,85 | 12,1 | 20,2 | 24,5 | 28,8 | 32,8 | 36,3 | 40,1 | 48,2 | 53,8 | 60,9 | 66,7 | 76,3 | 84,5 | 96,7 | 104,5 | 112,5 | 111,5 | |
| | 18,0 | 56 | 9,08 | 12,9 | 20,7 | 25,6 | 30,1 | 34,6 | 38,3 | 42,3 | 45,8 | 51,1 | 57,8 | 66,7 | 76,3 | 84,6 | 95,5 | 103,1 | 111,0 | 127,9 | |
| | 20,0 | 50 | 9,55 | 12,9 | 20,4 | 26,3 | 30,9 | 33,1 | 36,6 | 40,4 | 47,9 | 53,5 | 60,6 | 68,8 | 78,7 | 87,3 | 89,9 | 97,2 | 104,6 | 125,8 | |
| | 22,4 | 45 | 9,25 | 13,2 | 20,3 | 25,3 | 29,7 | 33,4 | 37,0 | 40,8 | 48,8 | 54,5 | 61,7 | 67,6 | 77,3 | 85,7 | 97,4 | 105,3 | 113,3 | 121,7 | |
| | 25,0 | 40 | 9,11 | 13,0 | 20,8 | 25,7 | 30,3 | 34,8 | 38,5 | 42,5 | 46,1 | 51,4 | 58,2 | 67,2 | 76,9 | 85,2 | 96,1 | 103,8 | 111,8 | 129,8 | |
| | 28,0 | 36 | 9,58 | 11,8 | 20,4 | 26,3 | 30,9 | 33,1 | 36,6 | 40,4 | 48,2 | 53,8 | 60,9 | 69,2 | 79,2 | 87,8 | 90,5 | 97,7 | 105,2 | 126,6 | |
| | 31,5 | 32 | 9,27 | 13,3 | 20,4 | 25,4 | 29,9 | 33,5 | 37,1 | 41,0 | 49,0 | 54,7 | 62,0 | 67,9 | 77,7 | 86,1 | 98,0 | 105,8 | 113,9 | 122,4 | |
| | 35,5 | 28 | 9,13 | 13,0 | 20,9 | 25,8 | 30,4 | 34,9 | 38,6 | 42,7 | 46,3 | 51,6 | 58,5 | 67,5 | 77,3 | 85,7 | 96,6 | 104,3 | 112,3 | 130,5 | |
| | 40,0 | 25 | 9,60 | 13,0 | 20,9 | 26,8 | 31,6 | 33,9 | 37,5 | 41,4 | 48,4 | 54,0 | 61,1 | 69,5 | 79,5 | 88,2 | 90,9 | 98,2 | 105,7 | 122,4 | |
| | 45,0 | 22 | 9,29 | 13,3 | 20,5 | 25,5 | 29,9 | 33,6 | 37,2 | 41,1 | 49,2 | 54,9 | 62,2 | 68,2 | 78,0 | 86,5 | 98,4 | 106,3 | 114,4 | 123,0 | |
| | 50,0 | 20 | 9,15 | 13,0 | 21,0 | 25,9 | 30,4 | 35,0 | 38,7 | 42,8 | 46,4 | 51,8 | 58,7 | 67,8 | 77,6 | 86,0 | 96,9 | 104,7 | 112,7 | 131,1 | |
| | 56,0 | 18 | 7,88 | 13,2 | 20,5 | 24,8 | 29,1 | 33,0 | 36,5 | 40,3 | 45,5 | 50,7 | 57,4 | 69,7 | 79,8 | 88,4 | 91,2 | 98,5 | 106,1 | 127,7 | |
| | 63,0 | 16 | 8,61 | 11,2 | 19,2 | 25,1 | 29,5 | 33,7 | 37,3 | 41,2 | 49,3 | 55,0 | 62,3 | 68,4 | 78,2 | 86,7 | 98,7 | 106,6 | 114,7 | 123,4 | |
| | 71,0 | 14 | 9,16 | 12,6 | 20,8 | 25,9 | 30,5 | 35,1 | 38,8 | 42,9 | 46,5 | 51,9 | 58,8 | 68,0 | 77,7 | 86,2 | 91,4 | 98,7 | 106,3 | 131,5 | |
| | 80,0 | 13 | 9,31 | 13,3 | 20,5 | 25,5 | 30,0 | 33,7 | 37,3 | 41,2 | 49,4 | 55,1 | 62,4 | 68,5 | 78,3 | 86,8 | 98,8 | 106,8 | 114,9 | 123,6 | |
| | 90,0 | 11 | 9,17 | 13,0 | 21,0 | 25,9 | 30,5 | 35,1 | 38,9 | 42,9 | 46,6 | 52,0 | 58,8 | 68,0 | 77,9 | 86,3 | 97,3 | 105,1 | 113,2 | 131,7 | |
| | 100 | 10 | 7,58 | 12,5 | 20,4 | 24,9 | 29,3 | 31,9 | 35,3 | 39,0 | 45,9 | 51,2 | 57,9 | 69,9 | 80,0 | 88,7 | 91,6 | 98,9 | 106,5 | 128,2 | |
| 112 | 9 | 8,29 | 10,7 | 18,9 | 24,5 | 28,8 | 33,8 | 37,4 | 41,3 | 49,5 | 55,2 | 62,5 | 68,6 | 78,4 | 86,9 | 99,0 | 106,9 | 115,1 | 123,9 | | |
| 125 | 8 | 9,17 | 12,0 | 20,4 | 26,0 | 30,6 | 35,2 | 38,9 | 42,9 | 46,6 | 52,0 | 58,9 | 68,1 | 78,0 | 86,4 | | | | 131,8 | | |

Type VR3 Right Angle

Power Ratings – kW/Triple Reduction

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|------|------|------|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1200 | 8,00 | 150 | 1523 | 1703 | 1875 | | | 2107 | 2430 | 2661 | | | |
| | 9,00 | 133 | 1523 | 1703 | 1875 | 1711 | 1875 | 2107 | 2430 | 2661 | 2404 | 2533 | 2661 |
| | 10,0 | 120 | 1523 | 1703 | 1875 | 1711 | 1875 | 2107 | 2430 | 2661 | 2404 | 2533 | 2661 |
| | 11,2 | 107 | 1314 | 1469 | 1617 | 1711 | 1875 | 2107 | 2430 | 2661 | 2404 | 2533 | 2661 |
| | 12,5 | 96 | 1207 | 1349 | 1485 | 1663 | 1822 | 1841 | 2123 | 2325 | 2404 | 2533 | 2661 |
| | 14,0 | 86 | 1041 | 1164 | 1281 | 1355 | 1485 | 1841 | 2123 | 2325 | 2100 | 2213 | 2325 |
| | 16,0 | 75 | 1036 | 1158 | 1275 | 1317 | 1444 | 1811 | 2090 | 2288 | 2100 | 2213 | 2325 |
| | 18,0 | 67 | 942 | 1054 | 1160 | 1288 | 1412 | 1549 | 1787 | 1957 | 2100 | 2213 | 2325 |
| | 20,0 | 60 | 777 | 868 | 956 | 1152 | 1263 | 1342 | 1549 | 1696 | 1767 | 1862 | 1956 |
| | 22,4 | 54 | 772 | 863 | 950 | 983 | 1077 | 1309 | 1510 | 1654 | 1681 | 1771 | 1861 |
| | 25,0 | 48 | 696 | 778 | 856 | 961 | 1053 | 1063 | 1227 | 1343 | 1597 | 1683 | 1768 |
| | 28,0 | 43 | 573 | 640 | 705 | 843 | 924 | 976 | 1127 | 1233 | 1331 | 1403 | 1474 |
| | 31,5 | 38 | 569 | 636 | 701 | 725 | 795 | 952 | 1098 | 1202 | 1223 | 1288 | 1354 |
| | 35,5 | 34 | 491 | 549 | 604 | 708 | 776 | 764 | 882 | 966 | 1150 | 1212 | 1273 |
| | 40,0 | 30 | 404 | 452 | 497 | 603 | 661 | 667 | 769 | 842 | 872 | 919 | 966 |
| | 45,0 | 27 | 401 | 449 | 494 | 511 | 561 | 649 | 749 | 820 | 835 | 880 | 924 |
| | 50,0 | 24 | 349 | 391 | 430 | 499 | 547 | 537 | 619 | 678 | 804 | 847 | 890 |
| | 56,0 | 21 | 288 | 322 | 354 | 392 | 430 | 493 | 569 | 623 | 672 | 708 | 744 |
| | 63,0 | 19 | 286 | 319 | 351 | 364 | 399 | 482 | 556 | 608 | 562 | 593 | 623 |
| | 71,0 | 17 | 228 | 255 | 280 | 355 | 389 | 374 | 431 | 472 | 562 | 593 | 623 |
| 80,0 | 15 | 226 | 253 | 278 | 288 | 316 | 364 | 419 | 459 | 468 | 493 | 518 | |
| 90,0 | 13 | 196 | 220 | 242 | 281 | 308 | 300 | 346 | 379 | 447 | 471 | 495 | |
| 100 | 12 | 162 | 181 | 199 | 221 | 242 | 265 | 305 | 334 | 376 | 396 | 416 | |
| 112 | 11 | 161 | 180 | 198 | 205 | 225 | 265 | 305 | 334 | 302 | 318 | 334 | |
| 125 | 10 | | | | 200 | 219 | | | | 302 | 318 | 334 | |
| 1000 | 8,00 | 125 | 1285 | 1436 | 1581 | | | 1778 | 2051 | 2246 | | | |
| | 9,00 | 111 | 1285 | 1436 | 1581 | 1443 | 1581 | 1778 | 2051 | 2246 | 2029 | 2138 | 2246 |
| | 10,0 | 100 | 1285 | 1436 | 1581 | 1443 | 1581 | 1778 | 2051 | 2246 | 2029 | 2138 | 2246 |
| | 11,2 | 89 | 1105 | 1235 | 1360 | 1443 | 1581 | 1778 | 2051 | 2246 | 2029 | 2138 | 2246 |
| | 12,5 | 80 | 1006 | 1124 | 1238 | 1398 | 1532 | 1552 | 1791 | 1961 | 2029 | 2138 | 2246 |
| | 14,0 | 71 | 874 | 976 | 1075 | 1129 | 1238 | 1552 | 1791 | 1961 | 1771 | 1866 | 1961 |
| | 16,0 | 63 | 869 | 971 | 1069 | 1105 | 1211 | 1522 | 1756 | 1922 | 1771 | 1866 | 1961 |
| | 18,0 | 56 | 790 | 883 | 972 | 1081 | 1184 | 1291 | 1489 | 1631 | 1771 | 1866 | 1961 |
| | 20,0 | 50 | 651 | 727 | 801 | 960 | 1052 | 1126 | 1299 | 1422 | 1473 | 1552 | 1630 |
| | 22,4 | 45 | 647 | 723 | 796 | 823 | 902 | 1097 | 1266 | 1386 | 1410 | 1485 | 1560 |
| | 25,0 | 40 | 582 | 651 | 716 | 804 | 881 | 890 | 1027 | 1125 | 1331 | 1403 | 1474 |
| | 28,0 | 36 | 479 | 536 | 590 | 702 | 770 | 817 | 943 | 1032 | 1115 | 1175 | 1234 |
| | 31,5 | 32 | 476 | 532 | 586 | 606 | 665 | 796 | 919 | 1006 | 1023 | 1078 | 1133 |
| | 35,5 | 28 | 410 | 459 | 505 | 592 | 649 | 637 | 735 | 805 | 958 | 1010 | 1061 |
| | 40,0 | 25 | 338 | 377 | 415 | 504 | 553 | 557 | 643 | 704 | 727 | 766 | 805 |
| | 45,0 | 22 | 335 | 375 | 413 | 427 | 468 | 543 | 626 | 685 | 698 | 735 | 772 |
| | 50,0 | 20 | 292 | 326 | 359 | 417 | 457 | 448 | 517 | 566 | 670 | 706 | 742 |
| | 56,0 | 18 | 240 | 268 | 295 | 329 | 360 | 411 | 474 | 519 | 562 | 592 | 622 |
| | 63,0 | 16 | 238 | 266 | 293 | 304 | 333 | 402 | 464 | 508 | 469 | 494 | 519 |
| | 71,0 | 14 | 190 | 213 | 234 | 297 | 325 | 312 | 360 | 394 | 469 | 494 | 519 |
| 80,0 | 13 | 189 | 211 | 232 | 241 | 264 | 303 | 350 | 383 | 390 | 411 | 432 | |
| 90,0 | 11 | 164 | 183 | 201 | 235 | 257 | 251 | 289 | 317 | 372 | 392 | 412 | |
| 100 | 10 | 135 | 151 | 166 | 184 | 201 | 221 | 254 | 279 | 314 | 331 | 347 | |
| 112 | 9 | 134 | 150 | 165 | 171 | 187 | 221 | 254 | 279 | 252 | 265 | 279 | |
| 125 | 8 | | | | 167 | 183 | | | | 252 | 265 | 279 | |

Type VR3 Right Angle

Torque Ratings – kNm/Triple Reduction

(kNm AT LOW SPEED SHAFT)

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 | |
| 1200 | 8,00 | 150 | 102 | 114 | 125 | | | | 132 | 152 | 167 | | | |
| | 9,00 | 133 | 115 | 128 | 141 | 127 | 139 | 152 | 175 | 192 | 169 | 178 | 187 | |
| | 10,0 | 120 | 126 | 140 | 155 | 142 | 156 | 166 | 192 | 210 | 194 | 204 | 214 | |
| | 11,2 | 107 | 124 | 139 | 153 | 155 | 170 | 185 | 213 | 233 | 211 | 222 | 234 | |
| | 12,5 | 96 | 129 | 144 | 159 | 173 | 190 | 180 | 208 | 228 | 235 | 248 | 260 | |
| | 14,0 | 86 | 126 | 141 | 155 | 161 | 177 | 208 | 240 | 262 | 231 | 243 | 255 | |
| | 16,0 | 75 | 137 | 153 | 168 | 175 | 192 | 223 | 258 | 282 | 265 | 279 | 293 | |
| | 18,0 | 67 | 137 | 153 | 168 | 187 | 205 | 213 | 246 | 269 | 288 | 304 | 319 | |
| | 20,0 | 60 | 127 | 142 | 157 | 186 | 204 | 213 | 245 | 269 | 272 | 287 | 301 | |
| | 22,4 | 54 | 138 | 155 | 170 | 177 | 194 | 227 | 261 | 286 | 297 | 313 | 329 | |
| | 25,0 | 48 | 138 | 154 | 170 | 189 | 207 | 214 | 247 | 271 | 308 | 324 | 341 | |
| | 28,0 | 43 | 128 | 143 | 158 | 186 | 204 | 215 | 248 | 271 | 299 | 315 | 331 | |
| | 31,5 | 38 | 139 | 156 | 171 | 179 | 196 | 229 | 264 | 289 | 300 | 316 | 332 | |
| | 35,5 | 34 | 139 | 155 | 171 | 190 | 208 | 216 | 249 | 273 | 308 | 324 | 341 | |
| | 40,0 | 30 | 129 | 144 | 159 | 190 | 208 | 217 | 250 | 274 | 276 | 290 | 305 | |
| | 45,0 | 27 | 140 | 157 | 172 | 180 | 197 | 231 | 266 | 291 | 303 | 319 | 335 | |
| | 50,0 | 24 | 140 | 156 | 172 | 191 | 210 | 217 | 251 | 275 | 318 | 335 | 352 | |
| | 56,0 | 21 | 130 | 145 | 160 | 174 | 191 | 217 | 250 | 274 | 304 | 320 | 336 | |
| | 63,0 | 19 | 141 | 157 | 173 | 181 | 198 | 232 | 267 | 293 | 276 | 291 | 306 | |
| | 71,0 | 17 | 130 | 145 | 160 | 192 | 210 | 218 | 252 | 276 | 301 | 317 | 333 | |
| 80,0 | 15 | 141 | 158 | 174 | 181 | 198 | 232 | 268 | 294 | 305 | 321 | 338 | | |
| 90,0 | 13 | 140 | 157 | 172 | 192 | 211 | 219 | 252 | 276 | 318 | 335 | 352 | | |
| 100 | 12 | 130 | 146 | 160 | 175 | 192 | 209 | 242 | 265 | 306 | 322 | 338 | | |
| 112 | 11 | 141 | 158 | 174 | 181 | 199 | 229 | 264 | 289 | 267 | 281 | 295 | | |
| 125 | 10 | | | | 193 | 211 | | | | 291 | 306 | 322 | | |
| 1000 | 8,00 | 125 | 103 | 115 | 127 | | | | 134 | 154 | 169 | | | |
| | 9,00 | 111 | 116 | 130 | 143 | 129 | 141 | 154 | 178 | 194 | 171 | 180 | 189 | |
| | 10,0 | 100 | 127 | 142 | 156 | 144 | 157 | 168 | 194 | 213 | 196 | 206 | 217 | |
| | 11,2 | 89 | 125 | 140 | 154 | 157 | 172 | 187 | 216 | 236 | 214 | 225 | 236 | |
| | 12,5 | 80 | 129 | 144 | 159 | 175 | 191 | 183 | 211 | 231 | 238 | 251 | 264 | |
| | 14,0 | 71 | 127 | 142 | 156 | 161 | 177 | 210 | 243 | 266 | 233 | 246 | 258 | |
| | 16,0 | 63 | 138 | 154 | 169 | 176 | 193 | 225 | 260 | 285 | 268 | 282 | 296 | |
| | 18,0 | 56 | 137 | 154 | 169 | 188 | 206 | 213 | 246 | 269 | 292 | 307 | 323 | |
| | 20,0 | 50 | 128 | 143 | 157 | 186 | 204 | 214 | 247 | 270 | 272 | 287 | 301 | |
| | 22,4 | 45 | 139 | 155 | 171 | 178 | 195 | 228 | 263 | 288 | 299 | 315 | 331 | |
| | 25,0 | 40 | 139 | 155 | 170 | 190 | 208 | 215 | 248 | 272 | 308 | 324 | 341 | |
| | 28,0 | 36 | 129 | 144 | 158 | 186 | 204 | 216 | 249 | 273 | 301 | 317 | 333 | |
| | 31,5 | 32 | 140 | 156 | 172 | 179 | 196 | 230 | 265 | 290 | 301 | 318 | 334 | |
| | 35,5 | 28 | 139 | 156 | 171 | 191 | 209 | 216 | 249 | 273 | 308 | 324 | 341 | |
| | 40,0 | 25 | 129 | 145 | 159 | 191 | 209 | 217 | 251 | 274 | 276 | 290 | 305 | |
| | 45,0 | 22 | 140 | 157 | 173 | 180 | 197 | 231 | 267 | 292 | 304 | 320 | 336 | |
| | 50,0 | 20 | 140 | 156 | 172 | 192 | 210 | 218 | 251 | 275 | 318 | 335 | 352 | |
| | 56,0 | 18 | 130 | 145 | 160 | 175 | 192 | 217 | 250 | 274 | 304 | 321 | 337 | |
| | 63,0 | 16 | 141 | 158 | 173 | 181 | 198 | 232 | 268 | 293 | 276 | 291 | 306 | |
| | 71,0 | 14 | 130 | 146 | 160 | 192 | 211 | 219 | 252 | 276 | 301 | 317 | 333 | |
| 80,0 | 13 | 141 | 158 | 174 | 181 | 199 | 233 | 268 | 294 | 306 | 322 | 338 | | |
| 90,0 | 11 | 140 | 157 | 172 | 193 | 211 | 219 | 253 | 277 | 318 | 335 | 352 | | |
| 100 | 10 | 130 | 146 | 161 | 175 | 192 | 209 | 242 | 265 | 306 | 323 | 339 | | |
| 112 | 9 | 141 | 158 | 174 | 182 | 199 | 229 | 264 | 289 | 267 | 281 | 295 | | |
| 125 | 8 | | | | 193 | 212 | | | | 291 | 306 | 322 | | |

Type VR3 Right Angle

Power Ratings – kW/Triple Reduction

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 900 | 12,5 | 72 | | | | | | | | | | | | | | | 555 | 600 | 645 | |
| | 14,0 | 64 | 52 | 69 | 119 | 142 | 167 | 202 | 224 | 247 | 281 | 314 | 356 | 404 | 462 | 512 | 555 | 599 | 645 | 645 |
| | 16,0 | 56 | 52 | 69 | 119 | 142 | 167 | 199 | 220 | 243 | 275 | 307 | 347 | 399 | 457 | 506 | 526 | 568 | 612 | 645 |
| | 18,0 | 50 | 48 | 66 | 113 | 138 | 162 | 180 | 200 | 220 | 240 | 268 | 303 | 359 | 411 | 456 | 480 | 519 | 558 | 645 |
| | 20,0 | 45 | 45 | 61 | 97 | 123 | 145 | 153 | 169 | 187 | 227 | 254 | 287 | 312 | 357 | 396 | 409 | 442 | 475 | 581 |
| | 22,4 | 40 | 40 | 55 | 86 | 105 | 124 | 138 | 153 | 168 | 200 | 223 | 252 | 278 | 318 | 353 | 387 | 418 | 450 | 516 |
| | 25,0 | 36 | 35 | 48 | 82 | 99 | 117 | 125 | 138 | 153 | 174 | 195 | 220 | 250 | 286 | 317 | 354 | 382 | 411 | 480 |
| | 28,0 | 32 | 31 | 41 | 66 | 89 | 104 | 113 | 125 | 138 | 162 | 180 | 204 | 225 | 257 | 285 | 301 | 325 | 350 | 428 |
| | 31,5 | 29 | 28 | 40 | 59 | 76 | 90 | 102 | 113 | 125 | 142 | 158 | 179 | 200 | 229 | 254 | 285 | 308 | 332 | 380 |
| | 35,5 | 25 | 25 | 35 | 56 | 72 | 84 | 93 | 102 | 113 | 124 | 138 | 157 | 180 | 206 | 228 | 251 | 271 | 292 | 353 |
| | 40,0 | 23 | 22 | 31 | 49 | 64 | 75 | 83 | 92 | 102 | 113 | 126 | 143 | 157 | 180 | 200 | 214 | 231 | 249 | 292 |
| | 45,0 | 20 | 20 | 28 | 42 | 54 | 64 | 74 | 82 | 90 | 99 | 111 | 125 | 140 | 160 | 178 | 203 | 219 | 236 | 270 |
| | 50,0 | 18 | 17 | 24 | 40 | 51 | 60 | 67 | 74 | 82 | 86 | 96 | 109 | 126 | 144 | 160 | 180 | 194 | 209 | 251 |
| | 56,0 | 16 | 13 | 22 | 33 | 41 | 48 | 57 | 63 | 69 | 77 | 86 | 98 | 113 | 129 | 143 | 153 | 165 | 178 | 217 |
| | 63,0 | 14 | 13 | 17 | 28 | 38 | 44 | 52 | 57 | 63 | 72 | 81 | 92 | 101 | 115 | 128 | 145 | 156 | 168 | 193 |
| | 71,0 | 13 | 12 | 17 | 28 | 36 | 42 | 47 | 52 | 57 | 63 | 71 | 80 | 91 | 104 | 115 | 117 | 126 | 136 | 179 |
| | 80,0 | 11 | 11 | 15 | 24 | 30 | 35 | 41 | 46 | 50 | 56 | 62 | 71 | 79 | 90 | 100 | 111 | 120 | 129 | 148 |
| | 90,0 | 10 | 10 | 13 | 23 | 28 | 33 | 37 | 41 | 46 | 49 | 54 | 62 | 71 | 81 | 90 | 98 | 106 | 114 | 137 |
| 100 | 9 | 7,1 | 12 | 18 | 23 | 27 | 30 | 34 | 37 | 44 | 49 | 55 | 64 | 73 | 81 | 84 | 90 | 97 | 119 | |
| 112 | 8 | 7,1 | 9,1 | 16 | 20 | 24 | 29 | 32 | 35 | 41 | 46 | 52 | 57 | 65 | 72 | 79 | 85 | 92 | 105 | |
| 125 | 7 | 7,1 | 9,1 | 16 | 20 | 24 | 26 | 29 | 32 | 36 | 40 | 45 | 51 | 58 | 65 | | | | 98 | |

Type VR3 Right Angle

Torque Ratings – kNm/Triple Reduction

(kNm AT LOW SPEED SHAFT)

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|--|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 | |
| 900 | 12,5 | 72 | | | | | | | | | | | | | | | | 80,9 | 87,4 | 94,1 | |
| | 14,0 | 64 | 8,13 | 10,6 | 18,0 | 21,8 | 25,6 | 30,2 | 33,5 | 36,9 | 43,0 | 47,9 | 54,3 | 61,7 | 70,6 | 78,3 | 89,5 | 96,7 | 104,1 | 102,5 | |
| | 16,0 | 56 | 8,89 | 12,1 | 20,2 | 24,5 | 28,8 | 33,3 | 36,8 | 40,6 | 48,6 | 54,2 | 61,4 | 67,2 | 76,9 | 85,2 | 97,0 | 104,8 | 112,8 | 111,5 | |
| | 18,0 | 50 | 9,09 | 12,9 | 20,8 | 25,6 | 30,2 | 34,7 | 38,4 | 42,3 | 45,9 | 51,2 | 58,0 | 66,9 | 76,5 | 84,8 | 95,7 | 103,4 | 111,3 | 127,9 | |
| | 20,0 | 45 | 9,56 | 12,9 | 20,4 | 26,3 | 30,9 | 33,1 | 36,6 | 40,4 | 48,0 | 53,6 | 60,7 | 69,0 | 78,9 | 87,5 | 90,1 | 97,4 | 104,8 | 126,1 | |
| | 22,4 | 40 | 9,26 | 13,2 | 20,4 | 25,3 | 29,8 | 33,5 | 37,0 | 40,9 | 48,9 | 54,5 | 61,8 | 67,7 | 77,4 | 85,8 | 97,6 | 105,5 | 113,5 | 122,0 | |
| | 25,0 | 36 | 9,12 | 13,0 | 20,9 | 25,8 | 30,3 | 34,8 | 38,6 | 42,6 | 46,1 | 51,5 | 58,3 | 67,3 | 77,0 | 85,4 | 96,3 | 104,0 | 111,9 | 130,1 | |
| | 28,0 | 32 | 9,59 | 11,9 | 20,4 | 26,3 | 30,9 | 33,1 | 36,6 | 40,4 | 48,3 | 53,8 | 61,0 | 69,3 | 79,3 | 87,9 | 90,6 | 97,9 | 105,4 | 126,8 | |
| | 31,5 | 29 | 9,28 | 13,3 | 20,4 | 25,4 | 29,9 | 33,6 | 37,1 | 41,0 | 49,1 | 54,8 | 62,0 | 68,0 | 77,8 | 86,2 | 98,1 | 106,0 | 114,1 | 122,6 | |
| | 35,5 | 25 | 9,14 | 13,0 | 20,9 | 25,8 | 30,4 | 34,9 | 38,7 | 42,7 | 46,3 | 51,7 | 58,5 | 67,6 | 77,4 | 85,8 | 96,6 | 104,3 | 112,3 | 130,7 | |
| | 40,0 | 23 | 9,60 | 13,0 | 20,9 | 26,8 | 31,6 | 33,9 | 37,5 | 41,4 | 48,4 | 54,0 | 61,2 | 69,6 | 79,6 | 88,2 | 91,0 | 98,3 | 105,8 | 122,4 | |
| | 45,0 | 20 | 9,30 | 13,3 | 20,5 | 25,5 | 30,0 | 33,7 | 37,2 | 41,1 | 49,3 | 55,0 | 62,2 | 68,2 | 78,1 | 86,5 | 98,5 | 106,4 | 114,5 | 123,1 | |
| | 50,0 | 18 | 9,16 | 13,0 | 21,0 | 25,9 | 30,5 | 35,0 | 38,8 | 42,8 | 46,5 | 51,8 | 58,7 | 67,8 | 77,6 | 86,0 | 97,0 | 104,8 | 112,8 | 131,2 | |
| | 56,0 | 16 | 7,88 | 13,2 | 20,5 | 24,8 | 29,2 | 33,0 | 36,5 | 40,3 | 45,6 | 50,8 | 57,6 | 69,8 | 79,8 | 88,5 | 91,3 | 98,6 | 106,1 | 127,8 | |
| | 63,0 | 14 | 8,61 | 11,2 | 19,2 | 25,1 | 29,6 | 33,7 | 37,3 | 41,2 | 49,4 | 55,1 | 62,3 | 68,4 | 78,3 | 86,7 | 98,7 | 106,7 | 114,8 | 123,5 | |
| | 71,0 | 13 | 9,17 | 12,6 | 20,8 | 25,9 | 30,5 | 35,1 | 38,8 | 42,9 | 46,6 | 51,9 | 58,8 | 68,0 | 77,8 | 86,2 | 91,4 | 98,8 | 106,3 | 131,5 | |
| | 80,0 | 11 | 9,31 | 13,3 | 20,5 | 25,5 | 30,0 | 33,8 | 37,4 | 41,2 | 49,4 | 55,1 | 62,4 | 68,5 | 78,4 | 86,9 | 98,9 | 106,8 | 115,0 | 123,7 | |
| | 90,0 | 10 | 9,17 | 13,0 | 21,0 | 26,0 | 30,5 | 35,1 | 38,9 | 42,9 | 46,6 | 52,0 | 58,9 | 68,1 | 77,9 | 86,3 | 97,4 | 105,2 | 113,2 | 131,7 | |
| | 100 | 9 | 7,58 | 12,5 | 20,4 | 25,0 | 29,4 | 31,9 | 35,3 | 39,0 | 45,9 | 51,2 | 58,0 | 69,9 | 80,0 | 88,7 | 91,6 | 98,9 | 106,5 | 128,3 | |
| | 112 | 8 | 8,29 | 10,7 | 18,9 | 24,5 | 28,8 | 33,8 | 37,4 | 41,3 | 49,5 | 55,2 | 62,5 | 68,6 | 78,5 | 87,0 | 99,0 | 107,0 | 115,2 | 123,9 | |
| 125 | 7 | 9,18 | 12,0 | 20,4 | 26,0 | 30,6 | 35,2 | 38,9 | 43,0 | 46,7 | 52,1 | 58,9 | 68,2 | 78,0 | 86,4 | | | | 131,8 | | |

Type VR3 Right Angle

Power Ratings – kW/Triple Reduction

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|------|------|------|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 900 | 8,00 | 112 | 1164 | 1302 | 1433 | | | 1611 | 1859 | 2035 | | | |
| | 9,00 | 100 | 1164 | 1302 | 1433 | 1307 | 1433 | 1611 | 1859 | 2035 | 1839 | 1937 | 2035 |
| | 10,0 | 90 | 1164 | 1302 | 1433 | 1307 | 1433 | 1611 | 1859 | 2035 | 1839 | 1937 | 2035 |
| | 11,2 | 80 | 999 | 1117 | 1229 | 1307 | 1433 | 1611 | 1859 | 2035 | 1839 | 1937 | 2035 |
| | 12,5 | 72 | 905 | 1012 | 1114 | 1264 | 1385 | 1406 | 1622 | 1776 | 1839 | 1937 | 2035 |
| | 14,0 | 64 | 789 | 882 | 971 | 1016 | 1114 | 1406 | 1622 | 1776 | 1605 | 1691 | 1776 |
| | 16,0 | 56 | 784 | 877 | 965 | 998 | 1094 | 1375 | 1586 | 1737 | 1605 | 1691 | 1776 |
| | 18,0 | 50 | 713 | 797 | 877 | 976 | 1069 | 1162 | 1340 | 1468 | 1605 | 1691 | 1776 |
| | 20,0 | 45 | 587 | 656 | 722 | 864 | 947 | 1016 | 1172 | 1284 | 1326 | 1397 | 1467 |
| | 22,4 | 40 | 583 | 652 | 718 | 743 | 814 | 990 | 1143 | 1251 | 1272 | 1341 | 1409 |
| | 25,0 | 36 | 525 | 587 | 646 | 726 | 795 | 803 | 927 | 1015 | 1198 | 1262 | 1326 |
| | 28,0 | 32 | 432 | 483 | 532 | 632 | 693 | 737 | 851 | 931 | 1006 | 1060 | 1113 |
| | 31,5 | 29 | 429 | 480 | 528 | 547 | 599 | 718 | 828 | 907 | 923 | 973 | 1022 |
| | 35,5 | 25 | 370 | 414 | 455 | 534 | 585 | 573 | 662 | 724 | 862 | 909 | 955 |
| | 40,0 | 23 | 304 | 340 | 374 | 454 | 498 | 502 | 579 | 634 | 654 | 689 | 724 |
| | 45,0 | 20 | 302 | 338 | 372 | 385 | 422 | 489 | 564 | 618 | 629 | 663 | 696 |
| | 50,0 | 18 | 263 | 294 | 324 | 376 | 412 | 404 | 466 | 510 | 603 | 635 | 668 |
| | 56,0 | 16 | 216 | 242 | 266 | 297 | 325 | 370 | 426 | 467 | 506 | 533 | 560 |
| | 63,0 | 14 | 215 | 240 | 264 | 274 | 300 | 362 | 418 | 458 | 422 | 444 | 467 |
| | 71,0 | 13 | 171 | 191 | 211 | 267 | 293 | 281 | 324 | 355 | 422 | 445 | 467 |
| 80,0 | 11 | 170 | 190 | 209 | 217 | 238 | 273 | 315 | 345 | 352 | 371 | 389 | |
| 90,0 | 10 | 147 | 165 | 181 | 211 | 232 | 226 | 260 | 285 | 335 | 353 | 371 | |
| 100 | 9 | 122 | 136 | 150 | 165 | 181 | 199 | 229 | 251 | 283 | 298 | 313 | |
| 112 | 8 | 121 | 135 | 148 | 154 | 169 | 199 | 229 | 251 | 227 | 239 | 251 | |
| 125 | 7 | | | | 150 | 165 | | | | 227 | 239 | 251 | |

Type VR3 Right Angle

Torque Ratings – kNm/Triple Reduction

(kNm AT LOW SPEED SHAFT)

| High-Speed Shaft rpm | Nom Ratio | Approx LS Shaft rpm | DRIVE SIZE | | | | | | | | | | | |
|----------------------|-----------|---------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 | |
| 900 | 8,00 | 112 | 104 | 116 | 128 | | | | 135 | 155 | 170 | | | |
| | 9,00 | 100 | 117 | 131 | 144 | 130 | 142 | 155 | 179 | 196 | 172 | 181 | 190 | |
| | 10,0 | 90 | 128 | 143 | 157 | 145 | 159 | 169 | 195 | 214 | 197 | 208 | 218 | |
| | 11,2 | 80 | 126 | 141 | 155 | 158 | 173 | 188 | 217 | 238 | 215 | 227 | 238 | |
| | 12,5 | 72 | 129 | 144 | 159 | 175 | 192 | 184 | 212 | 232 | 240 | 253 | 265 | |
| | 14,0 | 64 | 127 | 142 | 156 | 161 | 177 | 212 | 244 | 267 | 235 | 247 | 260 | |
| | 16,0 | 56 | 138 | 154 | 170 | 177 | 194 | 226 | 261 | 286 | 269 | 284 | 298 | |
| | 18,0 | 50 | 138 | 154 | 170 | 189 | 207 | 213 | 246 | 269 | 294 | 310 | 325 | |
| | 20,0 | 45 | 128 | 143 | 158 | 186 | 204 | 215 | 248 | 271 | 272 | 287 | 301 | |
| | 22,4 | 40 | 139 | 156 | 171 | 178 | 196 | 229 | 264 | 289 | 300 | 316 | 332 | |
| | 25,0 | 36 | 139 | 155 | 171 | 190 | 208 | 216 | 249 | 273 | 308 | 324 | 341 | |
| | 28,0 | 32 | 129 | 144 | 159 | 186 | 204 | 216 | 249 | 273 | 302 | 318 | 334 | |
| | 31,5 | 29 | 140 | 156 | 172 | 180 | 197 | 230 | 266 | 291 | 302 | 318 | 334 | |
| | 35,5 | 25 | 140 | 156 | 172 | 191 | 209 | 216 | 249 | 273 | 308 | 324 | 341 | |
| | 40,0 | 23 | 130 | 145 | 159 | 191 | 209 | 218 | 251 | 275 | 276 | 290 | 305 | |
| | 45,0 | 20 | 141 | 157 | 173 | 180 | 198 | 232 | 267 | 293 | 304 | 320 | 337 | |
| | 50,0 | 18 | 140 | 157 | 172 | 192 | 210 | 218 | 252 | 276 | 318 | 335 | 352 | |
| | 56,0 | 16 | 130 | 145 | 160 | 176 | 193 | 217 | 250 | 274 | 305 | 321 | 337 | |
| | 63,0 | 14 | 141 | 158 | 174 | 181 | 198 | 232 | 268 | 294 | 276 | 291 | 306 | |
| | 71,0 | 13 | 130 | 146 | 160 | 193 | 211 | 219 | 253 | 276 | 301 | 317 | 333 | |
| 80,0 | 11 | 141 | 158 | 174 | 181 | 199 | 233 | 269 | 294 | 306 | 322 | 339 | | |
| 90,0 | 10 | 140 | 157 | 172 | 193 | 211 | 219 | 253 | 277 | 318 | 335 | 352 | | |
| 100 | 9 | 131 | 146 | 161 | 175 | 192 | 209 | 242 | 265 | 306 | 323 | 339 | | |
| 112 | 8 | 142 | 158 | 174 | 182 | 199 | 229 | 264 | 289 | 267 | 281 | 295 | | |
| 125 | 7 | | | | 193 | 212 | | | | 291 | 306 | 322 | | |

Type VR2 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Double Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | | |
|---------|--------------|-------------------|------------|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 | |
| 1800 | 6,30 | None | | | | | | | | | | | | | | | * | * | * | | |
| | | Shaft Fan | | | | | | | | | | | | | | | | 1211 | 1223 | 1235 | |
| | | Electric Fan | | | | | | | | | | | | | | | | 1295 | 1308 | 1321 | |
| | | DuraPlate | | | | | | | | | | | | | | | | 3353 | 3387 | 3420 | |
| | 7,10 | None | 85 | 99 | 105 | 124 | 126 | 159 | 160 | 162 | * | * | * | 201 | 203 | 205 | * | * | * | * | |
| | | Shaft Fan | 176 | 232 | 301 | 309 | 315 | 434 | 439 | 443 | 542 | 548 | 553 | 685 | 692 | 699 | 1168 | 1180 | 1191 | 1087 | |
| | | Electric Fan | 177 | 240 | 274 | 373 | 380 | 460 | 465 | 469 | 592 | 598 | 604 | 854 | 862 | 871 | 1248 | 1261 | 1273 | 1160 | |
| | | DuraPlate | N/A | 390 | 473 | 588 | 599 | 1157 | 1169 | 1180 | 1762 | 1780 | 1798 | 2089 | 2109 | 2130 | 3221 | 3253 | 3285 | 2874 | |
| | 8,00 | None | 83 | 96 | 106 | 125 | 128 | 159 | 161 | 162 | 155 | 157 | 158 | 203 | 205 | 207 | * | * | * | * | |
| | | Shaft Fan | 171 | 224 | 300 | 309 | 316 | 435 | 440 | 444 | 533 | 538 | 544 | 692 | 699 | 706 | 1194 | 1206 | 1218 | 1072 | |
| | | Electric Fan | 173 | 232 | 274 | 373 | 380 | 461 | 466 | 470 | 581 | 587 | 593 | 863 | 871 | 880 | 1275 | 1287 | 1300 | 1143 | |
| | | DuraPlate | N/A | 377 | 469 | 586 | 598 | 1161 | 1173 | 1184 | 1708 | 1725 | 1742 | 2119 | 2140 | 2161 | 3240 | 3272 | 3305 | 2815 | |
| | 9,00 | None | 84 | 97 | 103 | 121 | 124 | 153 | 154 | 156 | 153 | 154 | 156 | 219 | 222 | 224 | 278 | 281 | 284 | * | |
| | | Shaft Fan | 173 | 225 | 288 | 296 | 302 | 412 | 416 | 420 | 514 | 519 | 524 | 715 | 722 | 730 | 1127 | 1139 | 1150 | 1092 | |
| | | Electric Fan | 174 | 233 | 264 | 356 | 364 | 436 | 440 | 445 | 560 | 566 | 571 | 886 | 894 | 903 | 1201 | 1213 | 1225 | 1163 | |
| | | DuraPlate | N/A | 376 | 450 | 556 | 568 | 1086 | 1097 | 1108 | 1622 | 1638 | 1655 | 2122 | 2143 | 2165 | 3145 | 3176 | 3208 | 2825 | |
| | 10,0 | None | 70 | 86 | 97 | 107 | 109 | 139 | 141 | 142 | 155 | 156 | 158 | 187 | 189 | 191 | 267 | 269 | 272 | * | |
| | | Shaft Fan | 143 | 198 | 271 | 258 | 264 | 366 | 370 | 374 | 496 | 501 | 506 | 580 | 586 | 592 | 1078 | 1089 | 1099 | 1013 | |
| | | Electric Fan | 145 | 204 | 247 | 310 | 316 | 387 | 391 | 395 | 540 | 545 | 550 | 717 | 724 | 731 | 1148 | 1160 | 1171 | 1076 | |
| | | DuraPlate | 214 | 319 | 408 | 478 | 488 | 787 | 795 | 803 | 1184 | 1196 | 1208 | 1389 | 1403 | 1417 | 3013 | 3043 | 3073 | 2664 | |
| | 11,2 | None | 64 | 83 | 97 | 108 | 110 | 139 | 140 | 142 | 153 | 154 | 156 | 187 | 189 | 191 | 276 | 278 | 281 | * | |
| | | Shaft Fan | 136 | 191 | 269 | 258 | 264 | 366 | 370 | 373 | 484 | 489 | 494 | 583 | 589 | 595 | 1093 | 1104 | 1115 | 991 | |
| | | Electric Fan | 137 | 198 | 246 | 310 | 316 | 387 | 391 | 395 | 526 | 531 | 537 | 721 | 728 | 735 | 1164 | 1175 | 1187 | 1052 | |
| | | DuraPlate | 204 | 308 | 405 | 476 | 486 | 789 | 797 | 805 | 1149 | 1160 | 1172 | 1403 | 1417 | 1431 | 3021 | 3051 | 3082 | 2603 | |
| 12,5 | None | 65 | 84 | 94 | 104 | 106 | 132 | 134 | 135 | 149 | 150 | 151 | 197 | 198 | 200 | | | | * | | |
| | Shaft Fan | 137 | 192 | 259 | 248 | 253 | 346 | 350 | 353 | 466 | 471 | 475 | 597 | 603 | 609 | | | | 999 | | |
| | Electric Fan | 138 | 199 | 237 | 297 | 303 | 366 | 370 | 374 | 506 | 511 | 516 | 734 | 742 | 749 | | | | 1060 | | |
| | DuraPlate | 205 | 308 | 388 | 454 | 464 | 742 | 749 | 757 | 1096 | 1107 | 1118 | 1410 | 1424 | 1438 | | | | 2602 | | |
| 1500 | 6,30 | None | | | | | | | | | | | | | | | 327 | 330 | 334 | | |
| | | Shaft Fan | | | | | | | | | | | | | | | | 1081 | 1091 | 1102 | |
| | | Electric Fan | | | | | | | | | | | | | | | | 1341 | 1354 | 1368 | |
| | | DuraPlate | | | | | | | | | | | | | | | | 2763 | 2791 | 2819 | |
| | 7,10 | None | 82 | 96 | 107 | 127 | 130 | 164 | 166 | 167 | 175 | 177 | 179 | 236 | 238 | 240 | 316 | 319 | 322 | * | |
| | | Shaft Fan | 148 | 195 | 254 | 264 | 269 | 371 | 375 | 378 | 471 | 476 | 481 | 608 | 614 | 620 | 1035 | 1045 | 1056 | 978 | |
| | | Electric Fan | 170 | 231 | 269 | 364 | 371 | 451 | 455 | 460 | 596 | 602 | 608 | 863 | 872 | 881 | 1284 | 1296 | 1309 | 1204 | |
| | | DuraPlate | 263 | 318 | 388 | 480 | 489 | 935 | 944 | 953 | 1377 | 1391 | 1405 | 1701 | 1718 | 1735 | 2645 | 2672 | 2698 | 2388 | |
| | 8,00 | None | 80 | 93 | 108 | 128 | 131 | 164 | 166 | 167 | 174 | 175 | 177 | 237 | 239 | 241 | 328 | 331 | 335 | 300 | |
| | | Shaft Fan | 144 | 188 | 253 | 264 | 270 | 371 | 374 | 378 | 461 | 466 | 470 | 611 | 617 | 623 | 1054 | 1065 | 1075 | 959 | |
| | | Electric Fan | 165 | 223 | 268 | 364 | 371 | 451 | 455 | 460 | 582 | 587 | 593 | 870 | 879 | 887 | 1303 | 1316 | 1329 | 1178 | |
| | | DuraPlate | 256 | 307 | 385 | 478 | 488 | 936 | 946 | 955 | 1334 | 1348 | 1361 | 1721 | 1738 | 1755 | 2661 | 2687 | 2714 | 2334 | |
| | 9,00 | None | 77 | 95 | 105 | 124 | 126 | 156 | 158 | 159 | 169 | 171 | 173 | 250 | 253 | 255 | 320 | 324 | 327 | 311 | |
| | | Shaft Fan | 141 | 189 | 244 | 253 | 258 | 350 | 353 | 357 | 444 | 449 | 453 | 630 | 636 | 642 | 986 | 995 | 1005 | 972 | |
| | | Electric Fan | 162 | 224 | 257 | 347 | 354 | 425 | 429 | 433 | 559 | 564 | 570 | 888 | 897 | 906 | 1212 | 1224 | 1237 | 1190 | |
| | | DuraPlate | 253 | 307 | 369 | 455 | 464 | 876 | 885 | 894 | 1269 | 1282 | 1294 | 1728 | 1745 | 1762 | 2578 | 2604 | 2630 | 2339 | |
| | 10,0 | None | 64 | 83 | 98 | 108 | 110 | 140 | 142 | 143 | 167 | 168 | 170 | 201 | 203 | 205 | 305 | 308 | 311 | 300 | |
| | | Shaft Fan | 117 | 166 | 228 | 220 | 224 | 311 | 314 | 317 | 426 | 430 | 435 | 500 | 504 | 509 | 939 | 948 | 958 | 890 | |
| | | Electric Fan | 135 | 197 | 241 | 301 | 307 | 376 | 380 | 384 | 534 | 539 | 544 | 706 | 713 | 720 | 1156 | 1167 | 1179 | 1084 | |
| | | DuraPlate | 172 | 261 | 334 | 390 | 398 | 639 | 645 | 652 | 960 | 969 | 979 | 1125 | 1136 | 1147 | 2465 | 2489 | 2514 | 2201 | |
| | 11,2 | None | 63 | 79 | 98 | 109 | 111 | 140 | 141 | 143 | 163 | 165 | 167 | 201 | 203 | 205 | 313 | 316 | 319 | 293 | |
| | | Shaft Fan | 114 | 159 | 227 | 220 | 224 | 310 | 313 | 316 | 415 | 419 | 424 | 501 | 506 | 511 | 952 | 961 | 971 | 868 | |
| | | Electric Fan | 132 | 188 | 240 | 300 | 306 | 376 | 379 | 383 | 519 | 524 | 530 | 709 | 716 | 723 | 1169 | 1181 | 1192 | 1057 | |
| | | DuraPlate | 168 | 250 | 332 | 389 | 397 | 639 | 646 | 652 | 931 | 940 | 950 | 1134 | 1145 | 1156 | 2474 | 2498 | 2523 | 2148 | |
| 12,5 | None | 64 | 80 | 98 | 105 | 107 | 133 | 134 | 136 | 158 | 160 | 162 | 209 | 211 | 213 | | | | 299 | | |
| | Shaft Fan | 116 | 160 | 227 | 211 | 216 | 293 | 296 | 299 | 399 | 403 | 407 | 513 | 518 | 523 | | | | 874 | | |
| | Electric Fan | 133 | 189 | 240 | 288 | 294 | 355 | 358 | 362 | 498 | 503 | 508 | 721 | 728 | 735 | | | | 1062 | | |
| | DuraPlate | 169 | 250 | 313 | 372 | 379 | 601 | 607 | 613 | 889 | 898 | 907 | 1142 | 1154 | 1165 | | | | 2147 | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR2 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Double Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|---------|--------------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1200 | 6,30 | None | | | | | | | | | | | | | | | 368 | 372 | 376 | |
| | | Shaft Fan | | | | | | | | | | | | | | | 915 | 924 | 933 | |
| | | Electric Fan | | | | | | | | | | | | | | | 1336 | 1349 | 1362 | |
| | | DuraPlate | | | | | | | | | | | | | | | 2158 | 2180 | 2201 | |
| | 7,10 | None | 75 | 92 | 106 | 126 | 128 | 163 | 164 | 166 | 185 | 186 | 188 | 251 | 254 | 257 | 351 | 354 | 358 | 345 |
| | | Shaft Fan | 117 | 157 | 206 | 217 | 221 | 303 | 306 | 309 | 390 | 394 | 398 | 511 | 516 | 521 | 871 | 880 | 889 | 835 |
| | | Electric Fan | 157 | 219 | 257 | 347 | 354 | 431 | 435 | 439 | 580 | 585 | 591 | 842 | 850 | 859 | 1273 | 1285 | 1298 | 1198 |
| | | DuraPlate | 202 | 248 | 303 | 374 | 382 | 716 | 723 | 730 | 1048 | 1059 | 1069 | 1310 | 1323 | 1337 | 2059 | 2079 | 2100 | 1885 |
| | 8,00 | None | 73 | 89 | 106 | 126 | 129 | 162 | 164 | 165 | 181 | 183 | 185 | 251 | 254 | 256 | 361 | 364 | 368 | 338 |
| | | Shaft Fan | 114 | 152 | 205 | 217 | 221 | 302 | 305 | 308 | 380 | 384 | 388 | 512 | 517 | 522 | 886 | 895 | 904 | 815 |
| | | Electric Fan | 153 | 211 | 256 | 346 | 353 | 430 | 434 | 438 | 564 | 569 | 575 | 846 | 855 | 863 | 1288 | 1301 | 1314 | 1168 |
| | | DuraPlate | 197 | 239 | 301 | 373 | 381 | 716 | 723 | 730 | 1016 | 1026 | 1036 | 1322 | 1335 | 1348 | 2072 | 2093 | 2114 | 1838 |
| | 9,00 | None | 74 | 89 | 103 | 122 | 124 | 153 | 155 | 157 | 176 | 178 | 179 | 263 | 265 | 268 | 342 | 345 | 349 | 345 |
| | | Shaft Fan | 115 | 151 | 198 | 208 | 212 | 285 | 288 | 291 | 366 | 370 | 373 | 527 | 532 | 538 | 823 | 831 | 839 | 822 |
| | | Electric Fan | 154 | 210 | 246 | 330 | 337 | 404 | 408 | 412 | 541 | 546 | 551 | 862 | 870 | 879 | 1189 | 1201 | 1213 | 1175 |
| | | DuraPlate | 198 | 238 | 289 | 356 | 363 | 670 | 677 | 684 | 968 | 977 | 987 | 1332 | 1345 | 1358 | 2007 | 2027 | 2048 | 1841 |
| | 10,0 | None | 61 | 78 | 93 | 102 | 104 | 137 | 138 | 140 | 170 | 172 | 174 | 204 | 206 | 208 | 324 | 327 | 330 | 321 |
| | | Shaft Fan | 95 | 134 | 181 | 175 | 179 | 252 | 255 | 257 | 350 | 353 | 357 | 410 | 414 | 419 | 781 | 789 | 797 | 747 |
| | | Electric Fan | 128 | 185 | 226 | 281 | 287 | 357 | 361 | 364 | 514 | 519 | 524 | 676 | 682 | 689 | 1131 | 1142 | 1153 | 1059 |
| | | DuraPlate | 136 | 203 | 258 | 299 | 305 | 492 | 497 | 502 | 737 | 744 | 752 | 862 | 871 | 879 | 1913 | 1933 | 1952 | 1731 |
| | 11,2 | None | 60 | 76 | 93 | 102 | 104 | 136 | 138 | 139 | 166 | 168 | 169 | 203 | 205 | 207 | 331 | 334 | 337 | 312 |
| | | Shaft Fan | 93 | 129 | 180 | 176 | 179 | 251 | 254 | 256 | 340 | 344 | 347 | 410 | 414 | 419 | 792 | 800 | 808 | 727 |
| | | Electric Fan | 125 | 179 | 225 | 281 | 286 | 356 | 360 | 363 | 499 | 504 | 509 | 678 | 685 | 691 | 1142 | 1154 | 1165 | 1031 |
| | | DuraPlate | 132 | 196 | 256 | 299 | 304 | 492 | 497 | 502 | 715 | 722 | 729 | 867 | 875 | 884 | 1923 | 1943 | 1962 | 1687 |
| 12,5 | None | 61 | 77 | 90 | 99 | 101 | 123 | 124 | 125 | 161 | 162 | 164 | 211 | 213 | 215 | | | | 316 | |
| | Shaft Fan | 94 | 130 | 174 | 169 | 172 | 231 | 233 | 235 | 328 | 331 | 334 | 421 | 425 | 429 | | | | 731 | |
| | Electric Fan | 126 | 180 | 216 | 269 | 274 | 328 | 332 | 335 | 479 | 484 | 488 | 689 | 696 | 703 | | | | 1034 | |
| | DuraPlate | 134 | 197 | 246 | 286 | 291 | 455 | 460 | 464 | 684 | 690 | 697 | 877 | 886 | 894 | | | | 1686 | |
| 1000 | 6,30 | None | | | | | | | | | | | | | | | 378 | 382 | 386 | |
| | | Shaft Fan | | | | | | | | | | | | | | | 789 | 797 | 805 | |
| | | Electric Fan | | | | | | | | | | | | | | | 1303 | 1316 | 1329 | |
| | | DuraPlate | | | | | | | | | | | | | | | 1753 | 1770 | 1788 | |
| | 7,10 | None | 72 | 87 | 103 | 122 | 124 | 157 | 159 | 161 | 184 | 186 | 188 | 251 | 254 | 256 | 359 | 362 | 366 | 356 |
| | | Shaft Fan | 99 | 131 | 172 | 187 | 187 | 256 | 258 | 261 | 331 | 336 | 337 | 438 | 443 | 447 | 749 | 756 | 764 | 724 |
| | | Electric Fan | 150 | 207 | 245 | 331 | 337 | 410 | 414 | 418 | 557 | 563 | 568 | 810 | 818 | 826 | 1238 | 1251 | 1263 | 1167 |
| | | DuraPlate | 173 | 201 | 247 | 304 | 310 | 574 | 580 | 586 | 836 | 844 | 853 | 1054 | 1065 | 1075 | 1668 | 1684 | 1701 | 1544 |
| | 8,00 | None | 70 | 84 | 100 | 122 | 125 | 157 | 158 | 160 | 180 | 182 | 183 | 251 | 253 | 256 | 367 | 371 | 374 | 346 |
| | | Shaft Fan | 96 | 126 | 169 | 187 | 187 | 255 | 257 | 260 | 322 | 326 | 329 | 438 | 443 | 447 | 760 | 768 | 776 | 704 |
| | | Electric Fan | 146 | 199 | 241 | 330 | 336 | 409 | 413 | 417 | 541 | 547 | 552 | 813 | 821 | 829 | 1252 | 1264 | 1277 | 1136 |
| | | DuraPlate | 168 | 194 | 243 | 304 | 310 | 574 | 579 | 585 | 810 | 818 | 826 | 1061 | 1071 | 1082 | 1680 | 1697 | 1714 | 1503 |
| | 9,00 | None | 71 | 85 | 97 | 113 | 115 | 148 | 150 | 151 | 174 | 176 | 178 | 261 | 264 | 266 | 344 | 348 | 351 | 351 |
| | | Shaft Fan | 97 | 128 | 163 | 171 | 174 | 240 | 242 | 245 | 310 | 314 | 317 | 451 | 456 | 460 | 704 | 711 | 718 | 710 |
| | | Electric Fan | 147 | 200 | 232 | 309 | 315 | 384 | 388 | 392 | 519 | 524 | 529 | 827 | 835 | 844 | 1152 | 1164 | 1175 | 1140 |
| | | DuraPlate | 169 | 195 | 234 | 284 | 290 | 537 | 543 | 548 | 773 | 781 | 789 | 1073 | 1083 | 1094 | 1631 | 1647 | 1663 | 1506 |
| | 10,0 | None | 59 | 75 | 91 | 99 | 101 | 128 | 129 | 130 | 167 | 169 | 171 | 200 | 202 | 204 | 325 | 328 | 331 | 323 |
| | | Shaft Fan | 81 | 113 | 152 | 150 | 153 | 208 | 210 | 212 | 296 | 299 | 302 | 348 | 351 | 354 | 667 | 674 | 680 | 642 |
| | | Electric Fan | 122 | 177 | 217 | 269 | 274 | 334 | 337 | 341 | 492 | 497 | 502 | 644 | 651 | 657 | 1094 | 1105 | 1116 | 1023 |
| | | DuraPlate | 118 | 167 | 212 | 246 | 250 | 393 | 397 | 401 | 592 | 598 | 604 | 693 | 699 | 706 | 1551 | 1567 | 1582 | 1418 |
| | 11,2 | None | 57 | 72 | 91 | 100 | 102 | 127 | 128 | 129 | 154 | 156 | 157 | 199 | 201 | 203 | 331 | 335 | 338 | 313 |
| | | Shaft Fan | 78 | 109 | 152 | 150 | 153 | 207 | 209 | 211 | 278 | 281 | 284 | 347 | 350 | 354 | 676 | 683 | 690 | 624 |
| | | Electric Fan | 119 | 170 | 216 | 268 | 274 | 333 | 337 | 340 | 467 | 471 | 476 | 646 | 652 | 659 | 1104 | 1116 | 1127 | 995 |
| | | DuraPlate | 115 | 160 | 211 | 245 | 250 | 392 | 396 | 400 | 564 | 570 | 575 | 695 | 702 | 709 | 1561 | 1577 | 1592 | 1380 |
| 12,5 | None | 58 | 73 | 88 | 96 | 98 | 120 | 121 | 123 | 149 | 151 | 152 | 206 | 208 | 210 | | | | 316 | |
| | Shaft Fan | 79 | 110 | 146 | 144 | 147 | 196 | 198 | 200 | 268 | 271 | 273 | 357 | 360 | 364 | | | | 627 | |
| | Electric Fan | 120 | 171 | 207 | 257 | 262 | 314 | 317 | 321 | 448 | 452 | 457 | 657 | 663 | 670 | | | | 998 | |
| | DuraPlate | 116 | 161 | 203 | 235 | 240 | 369 | 373 | 377 | 540 | 546 | 551 | 705 | 712 | 720 | | | | 1381 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR2 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Double Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|------------|---------------|----------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 900 | 6,30 | None | | | | | | | | | | | | | | | 378 | 382 | 386 | |
| | | Shaft Fan | | | | | | | | | | | | | | | 722 | 729 | 736 | |
| | | Electric Fan | | | | | | | | | | | | | | | 1277 | 1290 | 1302 | |
| | | DuraPlate | | | | | | | | | | | | | | | 1551 | 1566 | 1582 | |
| | 7,10 | None | 70 | 84 | 98 | 119 | 121 | 153 | 155 | 157 | 181 | 183 | 185 | 248 | 251 | 253 | 358 | 361 | 365 | 356 |
| | | Shaft Fan | 90 | 119 | 153 | 167 | 170 | 232 | 234 | 236 | 300 | 303 | 306 | 400 | 404 | 408 | 684 | 690 | 697 | 664 |
| | | Electric Fan | 146 | 201 | 236 | 320 | 327 | 398 | 402 | 406 | 542 | 547 | 553 | 788 | 796 | 804 | 1212 | 1224 | 1236 | 1143 |
| | | DuraPlate | 158 | 185 | 218 | 271 | 276 | 506 | 511 | 516 | 732 | 740 | 747 | 928 | 937 | 946 | 1474 | 1488 | 1503 | 1373 |
| | 8,00 | None | 68 | 81 | 99 | 115 | 118 | 153 | 154 | 156 | 177 | 179 | 181 | 247 | 250 | 252 | 365 | 369 | 373 | 346 |
| | | Shaft Fan | 87 | 114 | 153 | 163 | 166 | 231 | 233 | 235 | 293 | 295 | 298 | 399 | 403 | 407 | 694 | 701 | 708 | 645 |
| | | Electric Fan | 142 | 194 | 235 | 315 | 321 | 396 | 400 | 404 | 526 | 531 | 537 | 791 | 799 | 806 | 1225 | 1237 | 1249 | 1111 |
| | | DuraPlate | 153 | 178 | 217 | 254 | 259 | 504 | 509 | 515 | 710 | 717 | 724 | 932 | 941 | 951 | 1486 | 1501 | 1516 | 1336 |
| | 9,00 | None | 69 | 82 | 95 | 111 | 113 | 138 | 140 | 141 | 171 | 173 | 175 | 257 | 259 | 262 | 341 | 345 | 348 | 350 |
| | | Shaft Fan | 88 | 116 | 148 | 156 | 159 | 211 | 213 | 215 | 282 | 285 | 287 | 412 | 416 | 420 | 643 | 649 | 656 | 650 |
| | | Electric Fan | 143 | 195 | 225 | 300 | 306 | 365 | 369 | 373 | 504 | 509 | 514 | 804 | 812 | 820 | 1126 | 1138 | 1149 | 1114 |
| | | DuraPlate | 154 | 179 | 209 | 265 | 271 | 466 | 470 | 475 | 678 | 685 | 691 | 945 | 954 | 964 | 1444 | 1458 | 1473 | 1338 |
| | 10,0 | None | 57 | 73 | 89 | 97 | 99 | 125 | 126 | 127 | 157 | 159 | 160 | 196 | 197 | 199 | 322 | 325 | 328 | 320 |
| | | Shaft Fan | 73 | 102 | 138 | 136 | 139 | 189 | 191 | 193 | 261 | 263 | 266 | 315 | 318 | 322 | 608 | 614 | 620 | 588 |
| | | Electric Fan | 119 | 172 | 210 | 261 | 266 | 325 | 328 | 331 | 469 | 474 | 479 | 625 | 631 | 637 | 1069 | 1079 | 1090 | 999 |
| | | DuraPlate | 110 | 154 | 190 | 219 | 223 | 348 | 351 | 355 | 514 | 519 | 524 | 609 | 615 | 621 | 1372 | 1385 | 1399 | 1262 |
| | 11,2 | None | 55 | 70 | 89 | 98 | 99 | 124 | 125 | 127 | 153 | 155 | 156 | 185 | 187 | 189 | 328 | 331 | 335 | 310 |
| | | Shaft Fan | 71 | 98 | 138 | 136 | 139 | 188 | 190 | 192 | 254 | 257 | 259 | 304 | 307 | 310 | 617 | 623 | 629 | 570 |
| | | Electric Fan | 115 | 166 | 209 | 261 | 266 | 324 | 327 | 330 | 456 | 460 | 465 | 614 | 620 | 626 | 1079 | 1090 | 1100 | 971 |
| | | DuraPlate | 107 | 148 | 189 | 218 | 223 | 347 | 350 | 354 | 499 | 504 | 509 | 598 | 604 | 610 | 1382 | 1396 | 1409 | 1227 |
| 12,5 | None | 56 | 71 | 86 | 94 | 96 | 118 | 119 | 120 | 148 | 150 | 151 | 192 | 194 | 196 | | | | 313 | |
| | Shaft Fan | 72 | 99 | 133 | 131 | 134 | 178 | 180 | 181 | 245 | 247 | 250 | 313 | 316 | 319 | | | | 573 | |
| | Electric Fan | 117 | 166 | 201 | 250 | 255 | 305 | 308 | 311 | 437 | 442 | 446 | 625 | 631 | 637 | | | | 973 | |
| | DuraPlate | 108 | 149 | 182 | 209 | 214 | 327 | 330 | 333 | 478 | 483 | 488 | 609 | 615 | 621 | | | | 1228 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR2 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Double Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | | |
|---------|--------------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|-----|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 | |
| 1800 | 6,30 | None | | | | | | | | | | | | | | | 68 | 68 | 69 | | |
| | | Shaft Fan | | | | | | | | | | | | | | | | 833 | 842 | 850 | |
| | | Electric Fan | | | | | | | | | | | | | | | | 903 | 912 | 921 | |
| | | DuraPlate | | | | | | | | | | | | | | | | 2681 | 2708 | 2735 | |
| | 7,10 | None | 65 | 73 | 67 | 77 | 79 | * | * | * | * | * | * | * | * | * | * | 816 | 824 | 832 | 742 |
| | | Shaft Fan | 146 | 190 | 237 | 238 | 242 | 336 | 339 | 343 | 390 | 394 | 398 | 478 | 483 | 488 | | | | | |
| | | Electric Fan | 146 | 197 | 213 | 293 | 298 | 358 | 361 | 365 | 432 | 436 | 441 | 622 | 628 | 634 | 882 | 891 | 900 | 803 | |
| | | DuraPlate | N/A | 327 | 387 | 480 | 490 | 968 | 978 | 988 | 1407 | 1421 | 1435 | 1700 | 1717 | 1734 | 2588 | 2614 | 2640 | 2311 | |
| | 8,00 | None | 63 | 72 | 68 | 79 | 80 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 142 | 185 | 237 | 239 | 244 | 338 | 341 | 345 | 389 | 392 | 396 | 485 | 490 | 495 | 847 | 855 | 864 | 743 | |
| | | Electric Fan | 143 | 191 | 214 | 294 | 300 | 360 | 363 | 367 | 429 | 434 | 438 | 631 | 637 | 643 | 914 | 923 | 932 | 803 | |
| | | DuraPlate | N/A | 317 | 385 | 480 | 489 | 973 | 983 | 992 | 1370 | 1384 | 1397 | 1716 | 1733 | 1750 | 2618 | 2644 | 2670 | 2275 | |
| | 9,00 | None | 65 | 73 | 66 | 77 | 79 | 97 | 98 | 99 | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 144 | 186 | 229 | 230 | 235 | 322 | 325 | 329 | 378 | 382 | 386 | 512 | 517 | 522 | 828 | 837 | 845 | 773 | |
| | | Electric Fan | 145 | 192 | 207 | 282 | 288 | 342 | 346 | 349 | 417 | 421 | 425 | 658 | 665 | 671 | 895 | 899 | 908 | 834 | |
| | | DuraPlate | N/A | 317 | 369 | 457 | 466 | 913 | 922 | 931 | 1306 | 1319 | 1332 | 1741 | 1758 | 1776 | 2580 | 2606 | 2632 | 2298 | |
| | 10,0 | None | 54 | 65 | 64 | 70 | 72 | 92 | 93 | 94 | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 119 | 164 | 216 | 203 | 207 | 290 | 293 | 296 | 374 | 378 | 382 | 435 | 439 | 443 | 796 | 803 | 811 | 749 | |
| | | Electric Fan | 120 | 169 | 195 | 247 | 252 | 308 | 311 | 314 | 411 | 415 | 419 | 552 | 557 | 563 | 854 | 863 | 872 | 803 | |
| | | DuraPlate | 179 | 268 | 335 | 394 | 402 | 658 | 664 | 671 | 974 | 984 | 994 | 1139 | 1150 | 1162 | 2476 | 2501 | 2526 | 2206 | |
| | 11,2 | None | 48 | 63 | 64 | 71 | 73 | 92 | 93 | 94 | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 111 | 158 | 215 | 203 | 207 | 290 | 293 | 296 | 367 | 371 | 374 | 437 | 442 | 446 | 812 | 820 | 828 | 736 | |
| | | Electric Fan | 112 | 164 | 195 | 248 | 253 | 308 | 311 | 314 | 403 | 407 | 411 | 555 | 561 | 566 | 871 | 880 | 889 | 788 | |
| | | DuraPlate | 170 | 259 | 332 | 393 | 401 | 659 | 666 | 672 | 947 | 957 | 966 | 1151 | 1162 | 1174 | 2489 | 2514 | 2539 | 2160 | |
| 12,5 | None | 49 | 64 | 62 | 69 | 71 | 89 | 90 | 90 | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 113 | 160 | 207 | 195 | 199 | 276 | 278 | 281 | 354 | 358 | 362 | 451 | 456 | 460 | | | | | 747 | |
| | Electric Fan | 113 | 165 | 188 | 238 | 243 | 292 | 295 | 298 | 388 | 392 | 396 | 570 | 575 | 581 | | | | | 800 | |
| | DuraPlate | 171 | 259 | 319 | 376 | 384 | 621 | 627 | 634 | 905 | 914 | 923 | 1161 | 1172 | 1184 | | | | | 2164 | |
| 1500 | 6,30 | None | | | | | | | | | | | | | | | 794 | 802 | 810 | | |
| | | Shaft Fan | | | | | | | | | | | | | | | | 1015 | 1025 | 1035 | |
| | | Electric Fan | | | | | | | | | | | | | | | | 2249 | 2272 | 2294 | |
| | | DuraPlate | | | | | | | | | | | | | | | | | | | |
| | 7,10 | None | 64 | 73 | 74 | 87 | 89 | 112 | 114 | 115 | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 123 | 161 | 204 | 208 | 212 | 294 | 297 | 300 | 355 | 359 | 363 | 452 | 456 | 461 | 767 | 775 | 782 | 719 | |
| | | Electric Fan | 142 | 192 | 215 | 294 | 300 | 362 | 366 | 370 | 462 | 466 | 471 | 672 | 678 | 685 | 978 | 988 | 998 | 913 | |
| | | DuraPlate | 222 | 267 | 319 | 396 | 403 | 787 | 795 | 802 | 1145 | 1156 | 1168 | 1404 | 1418 | 1432 | 2160 | 2182 | 2203 | 1957 | |
| | 8,00 | None | 62 | 71 | 75 | 88 | 90 | 113 | 114 | 115 | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 120 | 156 | 203 | 209 | 213 | 294 | 297 | 300 | 351 | 354 | 358 | 456 | 460 | 465 | 788 | 796 | 804 | 710 | |
| | | Electric Fan | 138 | 186 | 215 | 294 | 300 | 363 | 367 | 370 | 454 | 458 | 463 | 677 | 684 | 691 | 1001 | 1011 | 1021 | 900 | |
| | | DuraPlate | 216 | 258 | 317 | 395 | 403 | 789 | 797 | 805 | 1113 | 1124 | 1135 | 1414 | 1428 | 1442 | 2181 | 2203 | 2225 | 1918 | |
| | 9,00 | None | 58 | 73 | 73 | 86 | 88 | 109 | 110 | 111 | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 116 | 157 | 196 | 201 | 205 | 279 | 282 | 285 | 340 | 343 | 347 | 475 | 480 | 485 | 753 | 761 | 768 | 728 | |
| | | Electric Fan | 134 | 187 | 207 | 282 | 287 | 344 | 347 | 351 | 438 | 442 | 447 | 699 | 706 | 713 | 947 | 956 | 966 | 918 | |
| | | DuraPlate | 211 | 259 | 305 | 377 | 384 | 740 | 747 | 755 | 1061 | 1071 | 1082 | 1435 | 1449 | 1463 | 2135 | 2157 | 2178 | 1931 | |
| | 10,0 | None | 49 | 64 | 69 | 76 | 78 | 100 | 101 | 102 | 106 | 107 | 108 | 129 | 131 | 132 | * | * | * | * | * |
| | | Shaft Fan | 97 | 138 | 184 | 175 | 179 | 250 | 252 | 255 | 331 | 334 | 338 | 387 | 391 | 395 | 719 | 726 | 734 | 685 | |
| | | Electric Fan | 112 | 164 | 195 | 246 | 250 | 306 | 309 | 312 | 424 | 428 | 432 | 565 | 571 | 576 | 905 | 914 | 923 | 853 | |
| | | DuraPlate | 143 | 219 | 276 | 323 | 330 | 537 | 542 | 547 | 796 | 804 | 812 | 931 | 940 | 949 | 2044 | 2064 | 2085 | 1841 | |
| | 11,2 | None | 48 | 60 | 69 | 77 | 78 | 100 | 101 | 102 | 105 | 106 | 107 | 129 | 131 | 132 | * | * | * | * | * |
| | | Shaft Fan | 94 | 131 | 184 | 176 | 179 | 250 | 252 | 255 | 324 | 327 | 330 | 388 | 392 | 396 | 732 | 739 | 747 | 670 | |
| | | Electric Fan | 109 | 157 | 194 | 245 | 250 | 306 | 309 | 312 | 413 | 417 | 422 | 568 | 573 | 579 | 918 | 927 | 937 | 834 | |
| | | DuraPlate | 140 | 210 | 275 | 323 | 329 | 537 | 542 | 548 | 773 | 781 | 789 | 938 | 948 | 957 | 2055 | 2076 | 2096 | 1798 | |
| 12,5 | None | 49 | 61 | 61 | 74 | 76 | 95 | 96 | 97 | 102 | 103 | 104 | 136 | 138 | 139 | | | | | * | |
| | Shaft Fan | 95 | 133 | 169 | 169 | 172 | 236 | 239 | 241 | 312 | 315 | 318 | 400 | 404 | 408 | | | | | 677 | |
| | Electric Fan | 110 | 158 | 179 | 235 | 240 | 290 | 292 | 295 | 398 | 402 | 406 | 580 | 586 | 591 | | | | | 841 | |
| | DuraPlate | 141 | 210 | 256 | 309 | 315 | 506 | 511 | 516 | 740 | 747 | 754 | 948 | 958 | 967 | | | | | 1801 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR2 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Double Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|------------|---------------|----------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1200 | 6,30 | None | | | | | | | | | | | | | | | 234 | 236 | 239 | |
| | | Shaft Fan | | | | | | | | | | | | | | | 705 | 712 | 719 | |
| | | Electric Fan | | | | | | | | | | | | | | | 1065 | 1076 | 1087 | |
| | | DuraPlate | | | | | | | | | | | | | | | 1780 | 1798 | 1816 | |
| | 7,10 | None | 58 | 71 | 78 | 92 | 94 | 119 | 120 | 122 | 125 | 126 | 128 | 170 | 172 | 173 | 226 | 228 | 230 | * |
| | | Shaft Fan | 96 | 130 | 167 | 173 | 177 | 244 | 247 | 249 | 305 | 308 | 311 | 397 | 401 | 405 | 674 | 681 | 688 | 646 |
| | | Electric Fan | 131 | 183 | 211 | 287 | 292 | 355 | 358 | 362 | 468 | 473 | 477 | 684 | 690 | 697 | 1018 | 1028 | 1039 | 961 |
| | | DuraPlate | 169 | 208 | 251 | 310 | 316 | 605 | 611 | 617 | 878 | 887 | 896 | 1094 | 1105 | 1116 | 1702 | 1719 | 1736 | 1567 |
| | 8,00 | None | 56 | 69 | 78 | 93 | 94 | 119 | 120 | 121 | 124 | 125 | 126 | 170 | 172 | 174 | 235 | 237 | 240 | * |
| | | Shaft Fan | 93 | 126 | 167 | 174 | 177 | 244 | 246 | 249 | 299 | 302 | 305 | 399 | 403 | 407 | 689 | 696 | 703 | 632 |
| | | Electric Fan | 127 | 177 | 210 | 286 | 292 | 354 | 358 | 361 | 457 | 461 | 466 | 686 | 693 | 700 | 1035 | 1045 | 1055 | 940 |
| | | DuraPlate | 165 | 201 | 250 | 309 | 316 | 606 | 612 | 618 | 853 | 861 | 870 | 1098 | 1109 | 1120 | 1718 | 1735 | 1752 | 1530 |
| | 9,00 | None | 57 | 68 | 76 | 90 | 91 | 113 | 115 | 116 | 121 | 122 | 123 | 181 | 182 | 184 | 230 | 233 | 235 | * |
| | | Shaft Fan | 95 | 125 | 161 | 167 | 170 | 231 | 233 | 235 | 288 | 291 | 294 | 413 | 417 | 422 | 648 | 654 | 661 | 643 |
| | | Electric Fan | 129 | 175 | 202 | 274 | 279 | 334 | 337 | 341 | 439 | 444 | 448 | 704 | 711 | 718 | 963 | 973 | 982 | 949 |
| | | DuraPlate | 166 | 199 | 240 | 295 | 301 | 568 | 574 | 579 | 814 | 822 | 830 | 1116 | 1127 | 1138 | 1677 | 1694 | 1710 | 1537 |
| | 10,0 | None | 48 | 61 | 67 | 73 | 74 | 102 | 103 | 104 | 120 | 121 | 122 | 145 | 146 | 148 | 219 | 221 | 223 | * |
| | | Shaft Fan | 79 | 111 | 146 | 139 | 142 | 206 | 208 | 210 | 278 | 281 | 284 | 326 | 330 | 333 | 616 | 622 | 628 | 593 |
| | | Electric Fan | 107 | 155 | 184 | 231 | 235 | 296 | 299 | 302 | 420 | 424 | 428 | 556 | 562 | 567 | 917 | 926 | 935 | 865 |
| | | DuraPlate | 114 | 170 | 212 | 246 | 251 | 415 | 419 | 423 | 616 | 622 | 628 | 719 | 726 | 733 | 1600 | 1616 | 1632 | 1459 |
| | 11,2 | None | 47 | 59 | 67 | 73 | 75 | 102 | 103 | 104 | 117 | 118 | 120 | 144 | 146 | 147 | 225 | 227 | 229 | 212 |
| | | Shaft Fan | 77 | 107 | 145 | 139 | 142 | 205 | 207 | 209 | 271 | 274 | 277 | 326 | 330 | 333 | 626 | 632 | 639 | 577 |
| | | Electric Fan | 104 | 150 | 184 | 230 | 235 | 295 | 298 | 301 | 409 | 413 | 417 | 558 | 564 | 569 | 928 | 937 | 947 | 843 |
| | | DuraPlate | 111 | 164 | 211 | 246 | 251 | 415 | 419 | 423 | 598 | 604 | 610 | 723 | 730 | 737 | 1610 | 1626 | 1643 | 1422 |
| 12,5 | None | 47 | 60 | 65 | 71 | 73 | 88 | 89 | 90 | 114 | 115 | 116 | 151 | 152 | 154 | | | | 216 | |
| | Shaft Fan | 78 | 108 | 140 | 134 | 137 | 184 | 186 | 188 | 262 | 264 | 267 | 336 | 339 | 343 | | | | 582 | |
| | Electric Fan | 105 | 151 | 177 | 221 | 225 | 268 | 271 | 274 | 393 | 397 | 401 | 569 | 575 | 580 | | | | 847 | |
| | DuraPlate | 112 | 165 | 203 | 236 | 241 | 380 | 383 | 387 | 573 | 578 | 584 | 733 | 740 | 748 | | | | 1424 | |
| 1000 | 6,30 | None | | | | | | | | | | | | | | | 263 | 266 | 269 | |
| | | Shaft Fan | | | | | | | | | | | | | | | 622 | 628 | 634 | |
| | | Electric Fan | | | | | | | | | | | | | | | 1064 | 1075 | 1086 | |
| | | DuraPlate | | | | | | | | | | | | | | | 1456 | 1471 | 1485 | |
| | 7,10 | None | 56 | 67 | 78 | 92 | 94 | 119 | 120 | 121 | 132 | 134 | 135 | 182 | 183 | 185 | 251 | 253 | 256 | * |
| | | Shaft Fan | 82 | 108 | 141 | 148 | 151 | 208 | 210 | 212 | 263 | 266 | 269 | 348 | 352 | 355 | 592 | 598 | 604 | 573 |
| | | Electric Fan | 126 | 174 | 204 | 276 | 281 | 342 | 345 | 349 | 459 | 463 | 468 | 670 | 677 | 684 | 1013 | 1024 | 1034 | 959 |
| | | DuraPlate | 145 | 168 | 206 | 253 | 258 | 487 | 492 | 496 | 702 | 709 | 716 | 885 | 893 | 902 | 1387 | 1401 | 1415 | 1292 |
| | 8,00 | None | 55 | 65 | 74 | 92 | 94 | 119 | 120 | 121 | 130 | 131 | 133 | 274 | 277 | 280 | 258 | 261 | 264 | * |
| | | Shaft Fan | 79 | 104 | 137 | 149 | 152 | 208 | 210 | 212 | 257 | 260 | 262 | 445 | 450 | 454 | 603 | 609 | 616 | 355 |
| | | Electric Fan | 122 | 167 | 199 | 275 | 281 | 341 | 345 | 348 | 447 | 451 | 455 | 668 | 677 | 686 | 1027 | 1037 | 1047 | 685 |
| | | DuraPlate | 141 | 162 | 200 | 252 | 257 | 486 | 491 | 496 | 682 | 688 | 695 | 1209 | 1221 | 1233 | 1401 | 1415 | 1429 | 904 |
| | 9,00 | None | 56 | 66 | 72 | 82 | 84 | 113 | 114 | 115 | 127 | 128 | 129 | 190 | 192 | 194 | 247 | 249 | 252 | 248 |
| | | Shaft Fan | 80 | 106 | 132 | 135 | 138 | 196 | 198 | 200 | 248 | 251 | 253 | 361 | 364 | 368 | 564 | 569 | 575 | 566 |
| | | Electric Fan | 123 | 168 | 191 | 255 | 260 | 321 | 324 | 327 | 429 | 433 | 437 | 687 | 694 | 701 | 950 | 959 | 969 | 941 |
| | | DuraPlate | 142 | 163 | 193 | 233 | 237 | 456 | 461 | 465 | 651 | 658 | 664 | 903 | 912 | 921 | 1367 | 1381 | 1394 | 1264 |
| | 10,0 | None | 46 | 59 | 68 | 74 | 76 | 95 | 96 | 97 | 123 | 124 | 126 | 148 | 149 | 151 | 233 | 236 | 238 | 233 |
| | | Shaft Fan | 67 | 93 | 124 | 120 | 123 | 168 | 169 | 171 | 238 | 241 | 243 | 280 | 283 | 286 | 534 | 540 | 545 | 518 |
| | | Electric Fan | 103 | 149 | 179 | 224 | 228 | 277 | 279 | 282 | 408 | 412 | 416 | 538 | 543 | 548 | 902 | 911 | 920 | 850 |
| | | DuraPlate | 99 | 140 | 175 | 203 | 207 | 328 | 331 | 335 | 497 | 502 | 507 | 579 | 585 | 591 | 1301 | 1314 | 1327 | 1199 |
| | 11,2 | None | 45 | 57 | 68 | 74 | 76 | 94 | 95 | 96 | 108 | 109 | 110 | 147 | 149 | 150 | 239 | 241 | 244 | 226 |
| | | Shaft Fan | 65 | 90 | 124 | 120 | 123 | 167 | 169 | 170 | 218 | 220 | 223 | 279 | 282 | 285 | 543 | 548 | 554 | 503 |
| | | Electric Fan | 100 | 143 | 178 | 223 | 228 | 276 | 279 | 282 | 381 | 385 | 389 | 539 | 544 | 550 | 913 | 922 | 931 | 828 |
| | | DuraPlate | 96 | 135 | 174 | 203 | 207 | 328 | 331 | 334 | 467 | 471 | 476 | 581 | 587 | 592 | 1311 | 1324 | 1337 | 1167 |
| 12,5 | None | 46 | 58 | 66 | 72 | 74 | 90 | 91 | 92 | 105 | 106 | 107 | 153 | 155 | 156 | | | | 229 | |
| | Shaft Fan | 66 | 91 | 119 | 116 | 118 | 158 | 160 | 161 | 211 | 213 | 215 | 288 | 291 | 294 | | | | 507 | |
| | Electric Fan | 101 | 144 | 172 | 214 | 218 | 261 | 263 | 266 | 366 | 370 | 374 | 549 | 554 | 560 | | | | 831 | |
| | DuraPlate | 97 | 136 | 168 | 195 | 199 | 309 | 312 | 315 | 448 | 452 | 457 | 591 | 597 | 603 | | | | 1169 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

162 (M171-110)

Type VR2 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Double Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | | |
|--------------|--------------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|--|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 | |
| 900 | 6,30 | None | | | | | | | | | | | | | | | 272 | 274 | 277 | | |
| | | Shaft Fan | | | | | | | | | | | | | | | | 575 | 580 | 586 | |
| | | Electric Fan | | | | | | | | | | | | | | | | 1053 | 1064 | 1074 | |
| | | DuraPlate | | | | | | | | | | | | | | | | 1293 | 1306 | 1319 | |
| | 7,10 | None | 55 | 66 | 74 | 91 | 93 | 118 | 119 | 120 | 134 | 135 | 136 | 184 | 185 | 187 | 258 | 261 | 263 | 256 | |
| | | Shaft Fan | 74 | 98 | 124 | 135 | 138 | 189 | 191 | 193 | 241 | 243 | 246 | 321 | 324 | 327 | 546 | 551 | 556 | 531 | |
| | | Electric Fan | 122 | 169 | 195 | 269 | 274 | 333 | 336 | 340 | 450 | 454 | 459 | 657 | 664 | 671 | 1001 | 1011 | 1021 | 949 | |
| | | DuraPlate | 132 | 155 | 180 | 225 | 230 | 428 | 432 | 437 | 616 | 622 | 628 | 779 | 787 | 795 | 1230 | 1242 | 1255 | 1152 | |
| | 8,00 | None | 53 | 64 | 74 | 86 | 87 | 117 | 118 | 119 | 131 | 132 | 134 | 183 | 185 | 187 | 265 | 268 | 270 | 250 | |
| | | Shaft Fan | 72 | 95 | 124 | 130 | 132 | 189 | 191 | 192 | 235 | 238 | 240 | 320 | 323 | 327 | 556 | 561 | 567 | 517 | |
| | | Electric Fan | 119 | 163 | 195 | 261 | 267 | 332 | 335 | 339 | 437 | 442 | 446 | 658 | 664 | 671 | 1013 | 1023 | 1034 | 924 | |
| | | DuraPlate | 129 | 149 | 179 | 218 | 223 | 427 | 432 | 436 | 598 | 604 | 610 | 780 | 788 | 795 | 1243 | 1255 | 1267 | 1122 | |
| | 9,00 | None | 54 | 65 | 72 | 83 | 85 | 103 | 104 | 105 | 127 | 128 | 130 | 192 | 193 | 195 | 251 | 253 | 256 | 255 | |
| | | Shaft Fan | 73 | 96 | 120 | 125 | 127 | 169 | 171 | 172 | 227 | 229 | 232 | 332 | 335 | 338 | 518 | 523 | 528 | 523 | |
| | | Electric Fan | 120 | 164 | 187 | 250 | 255 | 302 | 305 | 308 | 420 | 424 | 428 | 673 | 680 | 686 | 935 | 945 | 954 | 928 | |
| | | DuraPlate | 130 | 150 | 173 | 209 | 213 | 391 | 395 | 399 | 572 | 577 | 583 | 796 | 804 | 812 | 1213 | 1225 | 1237 | 1126 | |
| | 10,0 | None | 45 | 57 | 67 | 74 | 75 | 95 | 96 | 97 | 113 | 115 | 116 | 147 | 149 | 150 | 237 | 239 | 241 | 237 | |
| | | Shaft Fan | 61 | 85 | 112 | 110 | 112 | 153 | 155 | 156 | 206 | 209 | 211 | 255 | 258 | 261 | 490 | 495 | 500 | 477 | |
| | | Electric Fan | 100 | 145 | 175 | 218 | 223 | 271 | 273 | 276 | 387 | 391 | 394 | 524 | 529 | 535 | 888 | 897 | 906 | 836 | |
| | | DuraPlate | 92 | 129 | 156 | 181 | 185 | 291 | 294 | 297 | 426 | 430 | 434 | 511 | 516 | 521 | 1153 | 1164 | 1176 | 1068 | |
| | 11,2 | None | 44 | 55 | 68 | 74 | 75 | 94 | 95 | 96 | 111 | 112 | 113 | 133 | 134 | 136 | 242 | 244 | 247 | 230 | |
| Shaft Fan | | 59 | 82 | 112 | 110 | 112 | 153 | 154 | 156 | 201 | 203 | 205 | 239 | 242 | 244 | 498 | 503 | 508 | 463 | | |
| Electric Fan | | 97 | 140 | 175 | 218 | 222 | 270 | 273 | 275 | 376 | 380 | 384 | 507 | 512 | 517 | 898 | 907 | 916 | 813 | | |
| DuraPlate | | 89 | 124 | 156 | 181 | 184 | 290 | 293 | 296 | 414 | 418 | 422 | 494 | 499 | 504 | 1162 | 1174 | 1186 | 1040 | | |
| 12,5 | None | 44 | 56 | 65 | 72 | 73 | 89 | 90 | 91 | 108 | 109 | 110 | 139 | 140 | 142 | | | | 232 | | |
| | Shaft Fan | 60 | 83 | 108 | 106 | 108 | 145 | 146 | 147 | 194 | 196 | 198 | 248 | 250 | 253 | | | | 466 | | |
| | Electric Fan | 98 | 140 | 168 | 209 | 213 | 255 | 257 | 260 | 361 | 365 | 369 | 518 | 523 | 528 | | | | 816 | | |
| | DuraPlate | 90 | 125 | 150 | 174 | 177 | 274 | 277 | 279 | 397 | 401 | 405 | 504 | 509 | 514 | | | | 1041 | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|---------|--------------|-------------------|------------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1800 | 12,5 | None | | | | | | | | | | | | | | * | * | * | | |
| | | Shaft Fan | | | | | | | | | | | | | | | 674 | 681 | 687 | |
| | | Electric Fan | | | | | | | | | | | | | | | 517 | 522 | 527 | |
| | | DuraPlate | | | | | | | | | | | | | | | 2004 | 2024 | 2044 | |
| | 14,0 | None | 59 | 85 | 95 | 97 | 99 | 100 | 101 | 102 | 115 | 116 | 117 | * | * | * | * | * | * | * |
| | | Shaft Fan | 120 | 189 | 242 | 224 | 229 | 276 | 279 | 282 | 387 | 390 | 394 | 420 | 424 | 428 | 655 | 661 | 671 | 621 |
| | | Electric Fan | 97 | 155 | 177 | 208 | 212 | 226 | 228 | 230 | 318 | 321 | 324 | 389 | 393 | 397 | 503 | 508 | 513 | 470 |
| | | DuraPlate | 220 | 307 | 434 | 494 | 504 | 739 | 747 | 754 | 1185 | 1197 | 1209 | 1291 | 1304 | 1317 | 1944 | 1963 | 1983 | 1918 |
| | 16,0 | None | 57 | 82 | 95 | 97 | 99 | 100 | 101 | 102 | 115 | 117 | 118 | * | * | * | * | * | * | * |
| | | Shaft Fan | 117 | 182 | 242 | 224 | 229 | 274 | 277 | 280 | 381 | 385 | 389 | 418 | 422 | 426 | 671 | 675 | 682 | 615 |
| | | Electric Fan | 94 | 150 | 177 | 208 | 213 | 224 | 226 | 229 | 314 | 317 | 320 | 387 | 391 | 395 | 517 | 522 | 527 | 468 |
| | | DuraPlate | 214 | 296 | 432 | 491 | 501 | 731 | 739 | 746 | 1158 | 1170 | 1182 | 1281 | 1294 | 1307 | 1949 | 1968 | 1988 | 1885 |
| | 18,0 | None | 58 | 83 | 93 | 96 | 97 | 97 | 98 | 99 | 114 | 116 | 117 | * | * | * | * | * | * | * |
| | | Shaft Fan | 118 | 182 | 236 | 219 | 223 | 264 | 267 | 270 | 374 | 377 | 381 | 435 | 440 | 444 | 671 | 678 | 684 | 627 |
| | | Electric Fan | 95 | 150 | 173 | 204 | 208 | 217 | 219 | 221 | 308 | 311 | 314 | 405 | 409 | 413 | 525 | 530 | 535 | 480 |
| | | DuraPlate | 215 | 294 | 421 | 479 | 489 | 704 | 711 | 718 | 1129 | 1140 | 1152 | 1302 | 1315 | 1328 | 1906 | 1925 | 1944 | 1944 |
| | 20,0 | None | 53 | 75 | 85 | 91 | 92 | 97 | 98 | 99 | 110 | 111 | 113 | * | * | * | * | * | * | * |
| | | Shaft Fan | 110 | 168 | 220 | 208 | 212 | 259 | 261 | 264 | 353 | 357 | 360 | 402 | 406 | 410 | 644 | 651 | 657 | 628 |
| | | Electric Fan | 88 | 138 | 160 | 193 | 197 | 212 | 214 | 216 | 292 | 294 | 297 | 374 | 378 | 382 | 504 | 509 | 514 | 488 |
| | | DuraPlate | 202 | 274 | 396 | 458 | 467 | 685 | 692 | 699 | 1076 | 1087 | 1098 | 1190 | 1202 | 1214 | 1839 | 1857 | 1876 | 1835 |
| 22,4 | None | 52 | 72 | 86 | 91 | 93 | 96 | 97 | 98 | 109 | 110 | 111 | * | * | * | * | * | * | * | |
| | Shaft Fan | 107 | 162 | 219 | 207 | 212 | 256 | 258 | 261 | 346 | 349 | 353 | 398 | 402 | 406 | 652 | 659 | 665 | 615 | |
| | Electric Fan | 86 | 133 | 160 | 193 | 197 | 210 | 212 | 214 | 286 | 289 | 291 | 371 | 374 | 378 | 512 | 517 | 522 | 478 | |
| | DuraPlate | 197 | 264 | 393 | 455 | 464 | 677 | 684 | 691 | 1049 | 1060 | 1070 | 1179 | 1191 | 1203 | 1838 | 1857 | 1875 | 1795 | |
| 25,0 | None | 52 | 73 | 84 | 89 | 90 | 92 | 93 | 94 | 107 | 108 | 109 | * | * | * | 182 | 184 | 186 | * | |
| | Shaft Fan | 108 | 162 | 214 | 202 | 206 | 245 | 247 | 250 | 337 | 341 | 344 | 411 | 415 | 419 | 677 | 684 | 691 | 620 | |
| | Electric Fan | 87 | 134 | 156 | 188 | 192 | 201 | 203 | 205 | 279 | 282 | 284 | 383 | 387 | 391 | 550 | 555 | 561 | 483 | |
| | DuraPlate | 198 | 262 | 383 | 442 | 451 | 649 | 655 | 662 | 1020 | 1030 | 1040 | 1196 | 1208 | 1220 | 1841 | 1859 | 1878 | 1787 | |
| 28,0 | None | 44 | 64 | 74 | 81 | 83 | 96 | 97 | 98 | 115 | 116 | 117 | 129 | 130 | 131 | 173 | 175 | 177 | 179 | |
| | Shaft Fan | 91 | 144 | 183 | 181 | 185 | 238 | 240 | 242 | 322 | 326 | 329 | 377 | 380 | 384 | 649 | 656 | 662 | 677 | |
| | Electric Fan | 73 | 118 | 134 | 169 | 172 | 197 | 199 | 201 | 270 | 273 | 276 | 353 | 357 | 360 | 526 | 531 | 536 | 548 | |
| | DuraPlate | 164 | 228 | 326 | 393 | 401 | 501 | 506 | 511 | 988 | 997 | 1007 | 883 | 892 | 900 | 1776 | 1794 | 1812 | 1852 | |
| 31,5 | None | 42 | 61 | 74 | 81 | 83 | 95 | 96 | 97 | 115 | 116 | 117 | 127 | 129 | 130 | 177 | 179 | 180 | 175 | |
| | Shaft Fan | 89 | 139 | 183 | 181 | 184 | 235 | 237 | 239 | 322 | 326 | 329 | 372 | 376 | 380 | 655 | 661 | 668 | 660 | |
| | Electric Fan | 71 | 114 | 134 | 169 | 172 | 195 | 197 | 199 | 270 | 273 | 276 | 349 | 352 | 356 | 531 | 537 | 542 | 534 | |
| | DuraPlate | 159 | 220 | 324 | 390 | 398 | 495 | 500 | 505 | 963 | 973 | 982 | 873 | 882 | 891 | 1773 | 1791 | 1809 | 1810 | |
| 35,5 | None | 43 | 62 | 72 | 80 | 81 | 91 | 91 | 92 | 110 | 111 | 112 | 133 | 134 | 136 | 177 | 179 | 181 | 177 | |
| | Shaft Fan | 90 | 139 | 178 | 176 | 180 | 225 | 227 | 229 | 307 | 310 | 314 | 383 | 387 | 391 | 637 | 643 | 649 | 661 | |
| | Electric Fan | 72 | 114 | 131 | 164 | 168 | 187 | 188 | 190 | 258 | 260 | 263 | 359 | 363 | 367 | 518 | 523 | 529 | 536 | |
| | DuraPlate | 160 | 219 | 316 | 380 | 387 | 475 | 480 | 484 | 937 | 946 | 956 | 888 | 897 | 905 | 1709 | 1726 | 1743 | 1798 | |
| 40,0 | None | 40 | 58 | 65 | 75 | 76 | 86 | 87 | 87 | 110 | 111 | 112 | 122 | 123 | 124 | 168 | 169 | 171 | 175 | |
| | Shaft Fan | 84 | 131 | 166 | 166 | 169 | 213 | 215 | 218 | 302 | 305 | 308 | 349 | 353 | 356 | 608 | 614 | 620 | 636 | |
| | Electric Fan | 67 | 107 | 121 | 155 | 158 | 177 | 179 | 180 | 254 | 256 | 259 | 328 | 331 | 334 | 494 | 499 | 504 | 517 | |
| | DuraPlate | 152 | 207 | 297 | 359 | 366 | 452 | 457 | 461 | 914 | 923 | 932 | 813 | 821 | 829 | 1645 | 1661 | 1678 | 1718 | |
| 45,0 | None | 39 | 56 | 65 | 75 | 76 | 85 | 85 | 86 | 107 | 108 | 109 | 120 | 121 | 122 | 171 | 172 | 174 | 170 | |
| | Shaft Fan | 82 | 126 | 166 | 165 | 169 | 211 | 213 | 215 | 295 | 298 | 301 | 345 | 349 | 352 | 613 | 619 | 625 | 619 | |
| | Electric Fan | 65 | 103 | 121 | 154 | 157 | 175 | 176 | 178 | 248 | 250 | 253 | 324 | 327 | 330 | 499 | 504 | 509 | 503 | |
| | DuraPlate | 147 | 199 | 296 | 357 | 364 | 447 | 451 | 455 | 889 | 898 | 907 | 804 | 812 | 820 | 1642 | 1659 | 1675 | 1677 | |
| 50,0 | None | 39 | 56 | 64 | 73 | 74 | 81 | 82 | 82 | 104 | 105 | 106 | 125 | 127 | 128 | 173 | 174 | 176 | 172 | |
| | Shaft Fan | 83 | 126 | 162 | 161 | 164 | 201 | 203 | 205 | 286 | 289 | 292 | 355 | 359 | 362 | 600 | 606 | 612 | 619 | |
| | Electric Fan | 66 | 103 | 118 | 150 | 153 | 167 | 169 | 170 | 241 | 243 | 245 | 334 | 337 | 340 | 491 | 496 | 501 | 504 | |
| | DuraPlate | 148 | 198 | 288 | 347 | 354 | 428 | 432 | 436 | 862 | 870 | 879 | 818 | 826 | 834 | 1587 | 1603 | 1618 | 1665 | |
| 56,0 | None | 39 | 55 | 63 | 66 | 67 | 71 | 72 | 73 | 83 | 84 | 85 | 123 | 124 | 126 | 162 | 164 | 166 | 171 | |
| | Shaft Fan | 82 | 127 | 159 | 150 | 153 | 189 | 190 | 192 | 258 | 261 | 263 | 343 | 346 | 350 | 572 | 577 | 583 | 600 | |
| | Electric Fan | 65 | 104 | 116 | 140 | 142 | 155 | 157 | 158 | 215 | 217 | 219 | 320 | 323 | 326 | 466 | 471 | 476 | 489 | |
| | DuraPlate | 147 | 205 | 282 | 325 | 331 | 408 | 412 | 416 | 797 | 805 | 813 | 757 | 765 | 772 | 1524 | 1540 | 1555 | 1595 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|---------|--------------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1800 | 63,0 | None | 38 | 53 | 63 | 66 | 67 | 70 | 71 | 72 | 81 | 82 | 83 | 121 | 122 | 124 | 165 | 167 | 169 | 165 |
| | | Shaft Fan | 79 | 123 | 156 | 148 | 151 | 186 | 188 | 190 | 252 | 254 | 257 | 336 | 339 | 342 | 576 | 582 | 588 | 582 |
| | | Electric Fan | 63 | 100 | 115 | 138 | 141 | 153 | 155 | 156 | 209 | 211 | 213 | 316 | 319 | 322 | 471 | 476 | 481 | 475 |
| | | DuraPlate | 142 | 198 | 272 | 317 | 323 | 403 | 407 | 411 | 777 | 785 | 793 | 749 | 757 | 764 | 1523 | 1538 | 1553 | 1554 |
| | 71,0 | None | 38 | 54 | 61 | 64 | 65 | 67 | 68 | 68 | 79 | 79 | 80 | 127 | 128 | 129 | 147 | 148 | 150 | 166 |
| | | Shaft Fan | 80 | 122 | 152 | 144 | 147 | 177 | 179 | 181 | 245 | 247 | 250 | 346 | 349 | 353 | 484 | 489 | 494 | 582 |
| | | Electric Fan | 64 | 100 | 112 | 135 | 137 | 146 | 147 | 149 | 203 | 205 | 207 | 326 | 329 | 332 | 397 | 401 | 405 | 476 |
| | | DuraPlate | 143 | 196 | 265 | 308 | 314 | 385 | 388 | 392 | 755 | 762 | 770 | 762 | 770 | 777 | 922 | 931 | 940 | 1544 |
| | 80,0 | None | 34 | 44 | 56 | 58 | 59 | 68 | 69 | 69 | 88 | 88 | 89 | 100 | 101 | 102 | 149 | 151 | 152 | 149 |
| | | Shaft Fan | 70 | 99 | 138 | 127 | 129 | 166 | 168 | 169 | 233 | 236 | 238 | 276 | 279 | 282 | 488 | 493 | 498 | 493 |
| | | Electric Fan | 57 | 81 | 102 | 118 | 121 | 138 | 139 | 141 | 197 | 199 | 201 | 259 | 262 | 265 | 401 | 405 | 409 | 404 |
| | | DuraPlate | 106 | 135 | 178 | 200 | 205 | 267 | 270 | 273 | 478 | 482 | 487 | 582 | 588 | 593 | 924 | 934 | 943 | 939 |
| | 90,0 | None | 35 | 45 | 55 | 56 | 58 | 65 | 65 | 66 | 85 | 86 | 87 | 104 | 105 | 107 | 148 | 149 | 151 | 150 |
| | | Shaft Fan | 71 | 99 | 135 | 124 | 126 | 159 | 160 | 162 | 227 | 229 | 232 | 285 | 288 | 290 | 476 | 481 | 485 | 493 |
| | | Electric Fan | 57 | 81 | 99 | 115 | 118 | 132 | 133 | 134 | 191 | 193 | 195 | 268 | 270 | 273 | 392 | 395 | 399 | 405 |
| | | DuraPlate | 107 | 135 | 173 | 195 | 199 | 256 | 259 | 261 | 464 | 469 | 473 | 594 | 600 | 606 | 896 | 905 | 914 | 936 |
| | 100 | None | 34 | 44 | 54 | 54 | 55 | 65 | 66 | 67 | 85 | 86 | 87 | 101 | 102 | 103 | 139 | 140 | 142 | 146 |
| | | Shaft Fan | 70 | 100 | 132 | 119 | 122 | 158 | 160 | 161 | 226 | 228 | 231 | 273 | 276 | 279 | 453 | 458 | 462 | 475 |
| | | Electric Fan | 56 | 82 | 97 | 111 | 113 | 132 | 133 | 134 | 191 | 193 | 195 | 257 | 259 | 262 | 372 | 376 | 380 | 390 |
| | | DuraPlate | 105 | 139 | 169 | 188 | 192 | 253 | 256 | 258 | 460 | 465 | 470 | 561 | 566 | 572 | 858 | 866 | 875 | 898 |
| | 112 | None | 33 | 43 | 53 | 54 | 55 | 64 | 65 | 66 | 83 | 84 | 85 | 99 | 100 | 101 | 142 | 143 | 144 | 141 |
| | | Shaft Fan | 68 | 97 | 130 | 119 | 121 | 156 | 158 | 159 | 220 | 223 | 225 | 269 | 272 | 275 | 457 | 462 | 466 | 461 |
| | | Electric Fan | 54 | 79 | 96 | 111 | 113 | 130 | 131 | 132 | 186 | 188 | 190 | 253 | 256 | 258 | 376 | 380 | 384 | 379 |
| | | DuraPlate | 102 | 134 | 166 | 187 | 191 | 250 | 253 | 255 | 449 | 453 | 458 | 554 | 560 | 565 | 861 | 869 | 878 | 874 |
| 125 | None | 33 | 43 | 52 | 53 | 54 | 61 | 62 | 62 | 81 | 82 | 83 | 104 | 105 | 106 | | | | 142 | |
| | Shaft Fan | 68 | 97 | 127 | 116 | 118 | 149 | 150 | 152 | 214 | 216 | 219 | 278 | 281 | 284 | | | | 462 | |
| | Electric Fan | 55 | 79 | 93 | 108 | 110 | 124 | 125 | 126 | 181 | 183 | 185 | 262 | 264 | 267 | | | | 380 | |
| | DuraPlate | 103 | 134 | 162 | 182 | 186 | 239 | 241 | 244 | 436 | 440 | 445 | 566 | 571 | 577 | | | | 871 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|---------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1800 | 8,00 | None | * | * | * | | | * | * | * | | | |
| | | Shaft Fan | * | * | * | | | * | * | * | | | |
| | | Electric Fan | * | * | * | | | * | * | * | | | |
| | | DuraPlate | 4894 | 4943 | 4992 | | | 3655 | 3692 | 3728 | | | |
| | 9,00 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * |
| | | Electric Fan | * | * | * | * | * | * | * | * | * | * | * |
| | | DuraPlate | 4883 | 4932 | 4981 | 4648 | 4741 | 4060 | 4100 | 4141 | 2645 | 2671 | 2698 |
| | 10,0 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * |
| | | Electric Fan | * | * | * | * | * | * | * | * | * | * | * |
| | | DuraPlate | 4813 | 4861 | 4909 | 4714 | 4808 | 4178 | 4220 | 4262 | 3348 | 3382 | 3415 |
| | 11,2 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 436 | 440 | 444 | * | * | * | * | * | * | * | * |
| | | Electric Fan | * | * | * | * | * | * | * | * | * | * | * |
| | | DuraPlate | 4720 | 4768 | 4815 | 4671 | 4764 | 4786 | 4834 | 4882 | 3586 | 3622 | 3658 |
| | 12,5 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 767 | 775 | 783 | 330 | 337 | * | * | * | * | * | * |
| | | Electric Fan | 443 | 448 | 452 | * | * | * | * | * | * | * | * |
| | | DuraPlate | 3724 | 3761 | 3799 | 4646 | 4739 | 4406 | 4450 | 4494 | 4398 | 4442 | 4486 |
| 14,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 789 | 797 | 805 | 702 | 716 | * | * | * | * | * | * | |
| | Electric Fan | 470 | 474 | 479 | * | * | * | * | * | * | * | * | |
| | DuraPlate | 3662 | 3698 | 3735 | 3665 | 3738 | 4367 | 4410 | 4454 | 4186 | 4228 | 4270 | |
| 16,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 773 | 781 | 788 | 745 | 760 | * | * | * | * | * | * | |
| | Electric Fan | 462 | 467 | 471 | 426 | 435 | * | * | * | * | * | * | |
| | DuraPlate | 3585 | 3621 | 3657 | 3636 | 3709 | 4315 | 4359 | 4402 | 4205 | 4247 | 4289 | |
| 18,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 815 | 823 | 831 | 736 | 751 | 507 | 512 | 517 | * | * | * | |
| | Electric Fan | 522 | 527 | 532 | 426 | 434 | * | * | * | * | * | * | |
| | DuraPlate | 3442 | 3476 | 3511 | 3565 | 3637 | 4323 | 4366 | 4409 | 4178 | 4220 | 4261 | |
| 20,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 817 | 825 | 833 | 783 | 799 | 518 | 523 | 529 | * | * | * | |
| | Electric Fan | 529 | 534 | 539 | 493 | 503 | * | * | * | * | * | * | |
| | DuraPlate | 3369 | 3403 | 3437 | 3412 | 3480 | 4212 | 4254 | 4297 | 4246 | 4288 | 4331 | |
| 22,4 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 792 | 800 | 808 | 800 | 816 | 513 | 518 | 523 | * | * | * | |
| | Electric Fan | 512 | 517 | 523 | 512 | 522 | * | * | * | * | * | * | |
| | DuraPlate | 3295 | 3328 | 3361 | 3366 | 3433 | 4135 | 4177 | 4218 | 4151 | 4192 | 4234 | |
| 25,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 960 | 969 | 979 | 779 | 794 | 656 | 663 | 669 | * | * | * | |
| | Electric Fan | 715 | 722 | 729 | 499 | 509 | 129 | 131 | 132 | * | * | * | |
| | DuraPlate | 2504 | 2529 | 2554 | 3293 | 3359 | 4012 | 4052 | 4092 | 4081 | 4122 | 4163 | |
| 28,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 951 | 961 | 971 | 942 | 960 | 1176 | 1188 | 1200 | 624 | 630 | 636 | |
| | Electric Fan | 712 | 719 | 726 | 698 | 712 | 642 | 648 | 655 | * | * | * | |
| | DuraPlate | 2457 | 2481 | 2506 | 2485 | 2535 | 3265 | 3297 | 3330 | 3977 | 4016 | 4056 | |
| 31,5 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 923 | 932 | 942 | 946 | 965 | 1146 | 1157 | 1168 | 1147 | 1159 | 1170 | |
| | Electric Fan | 689 | 696 | 702 | 706 | 720 | 624 | 630 | 636 | 617 | 623 | 629 | |
| | DuraPlate | 2401 | 2425 | 2449 | 2457 | 2506 | 3200 | 3232 | 3264 | 3236 | 3268 | 3300 | |
| 35,5 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 870 | 879 | 888 | 919 | 937 | 1173 | 1185 | 1197 | 1120 | 1131 | 1142 | |
| | Electric Fan | 655 | 661 | 668 | 684 | 698 | 673 | 680 | 686 | 602 | 608 | 614 | |
| | DuraPlate | 2228 | 2250 | 2272 | 2403 | 2451 | 3115 | 3146 | 3177 | 3173 | 3205 | 3237 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | |
|---------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|------|------|---|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 | |
| 1800 | 40,0 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 860 | 869 | 877 | 857 | 874 | 1128 | 1139 | 1151 | 1155 | 1166 | 1178 | |
| | | Electric Fan | 649 | 656 | 662 | 643 | 656 | 645 | 652 | 658 | 657 | 664 | 670 | |
| | | DuraPlate | 2183 | 2205 | 2226 | 2214 | 2258 | 3014 | 3045 | 3075 | 3098 | 3129 | 3159 | |
| | 45,0 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 834 | 842 | 850 | 858 | 875 | 1094 | 1105 | 1116 | 1110 | 1121 | 1133 | |
| | | Electric Fan | 627 | 634 | 640 | 647 | 660 | 623 | 629 | 635 | 631 | 637 | 643 | |
| | | DuraPlate | 2134 | 2155 | 2176 | 2185 | 2229 | 2950 | 2979 | 3009 | 2996 | 3026 | 3056 | |
| | 50,0 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 843 | 851 | 859 | 833 | 849 | 1145 | 1157 | 1168 | 1078 | 1089 | 1099 | |
| | | Electric Fan | 633 | 639 | 645 | 626 | 638 | 660 | 666 | 673 | 610 | 616 | 622 | |
| | | DuraPlate | 2210 | 2232 | 2254 | 2137 | 2179 | 3126 | 3158 | 3189 | 2932 | 2961 | 2991 | |
| 56,0 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 830 | 838 | 846 | 830 | 847 | 1130 | 1141 | 1153 | 1129 | 1140 | 1151 | | |
| | Electric Fan | 625 | 631 | 638 | 621 | 634 | 652 | 658 | 665 | 647 | 653 | 660 | | |
| | DuraPlate | 2151 | 2173 | 2194 | 2196 | 2240 | 3085 | 3116 | 3147 | 3108 | 3139 | 3170 | | |
| 63,0 | None | 80 | 81 | 81 | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 802 | 810 | 818 | 829 | 845 | 1092 | 1103 | 1114 | 1114 | 1125 | 1136 | | |
| | Electric Fan | 602 | 608 | 614 | 624 | 636 | 627 | 633 | 639 | 639 | 645 | 652 | | |
| | DuraPlate | 2097 | 2118 | 2139 | 2156 | 2199 | 3008 | 3038 | 3068 | 3068 | 3098 | 3129 | | |
| 71,0 | None | 185 | 187 | 189 | * | * | 227 | 229 | 232 | * | * | * | * | |
| | Shaft Fan | 731 | 738 | 745 | 803 | 819 | 1157 | 1169 | 1180 | 1097 | 1108 | 1119 | | |
| | Electric Fan | 588 | 594 | 600 | 603 | 615 | 809 | 817 | 825 | 635 | 641 | 648 | | |
| | DuraPlate | 1728 | 1745 | 1763 | 2103 | 2145 | 2642 | 2669 | 2695 | 3011 | 3041 | 3071 | | |
| 80,0 | None | 178 | 180 | 181 | 184 | 188 | 218 | 220 | 222 | 222 | 224 | 227 | 227 | |
| | Shaft Fan | 711 | 718 | 725 | 730 | 745 | 1127 | 1138 | 1149 | 1145 | 1157 | 1168 | | |
| | Electric Fan | 571 | 577 | 583 | 587 | 599 | 785 | 793 | 801 | 799 | 807 | 815 | | |
| | DuraPlate | 1694 | 1711 | 1728 | 1730 | 1765 | 2592 | 2617 | 2643 | 2630 | 2657 | 2683 | | |
| 90,0 | None | 122 | 123 | 124 | 177 | 181 | 224 | 226 | 229 | 213 | 216 | 218 | 218 | |
| | Shaft Fan | 658 | 665 | 671 | 711 | 725 | 1175 | 1186 | 1198 | 1115 | 1127 | 1138 | | |
| | Electric Fan | 513 | 518 | 523 | 571 | 582 | 811 | 819 | 827 | 775 | 783 | 791 | | |
| | DuraPlate | 1715 | 1732 | 1749 | 1696 | 1730 | 2792 | 2820 | 2848 | 2580 | 2606 | 2632 | | |
| 100 | None | 122 | 123 | 124 | 119 | 121 | 97 | 98 | 99 | 219 | 221 | 224 | 224 | |
| | Shaft Fan | 650 | 656 | 663 | 649 | 662 | 997 | 1007 | 1017 | 1162 | 1173 | 1185 | | |
| | Electric Fan | 507 | 513 | 518 | 505 | 515 | 640 | 647 | 653 | 800 | 808 | 816 | | |
| | DuraPlate | 1677 | 1694 | 1711 | 1704 | 1738 | 2603 | 2629 | 2655 | 2779 | 2806 | 2834 | | |
| 112 | None | 117 | 118 | 119 | 121 | 124 | 92 | 93 | 94 | 94 | 95 | 96 | 96 | |
| | Shaft Fan | 630 | 637 | 643 | 649 | 662 | 965 | 975 | 985 | 984 | 994 | 1004 | | |
| | Electric Fan | 491 | 496 | 501 | 507 | 517 | 618 | 624 | 630 | 630 | 637 | 643 | | |
| | DuraPlate | 1639 | 1655 | 1672 | 1680 | 1713 | 2543 | 2568 | 2593 | 2590 | 2616 | 2641 | | |
| 125 | None | | | | 116 | 118 | | | | 90 | 91 | 92 | 92 | |
| | Shaft Fan | | | | 630 | 643 | | | | 954 | 963 | 973 | 973 | |
| | Electric Fan | | | | 491 | 500 | | | | 608 | 615 | 621 | 621 | |
| | DuraPlate | | | | 1642 | 1675 | | | | 2529 | 2555 | 2580 | 2580 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | | |
|------------|---------------|----------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|--|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 | |
| 1500 | 12,5 | None | | | | | | | | | | | | | | | 181 | 183 | 185 | | |
| | | Shaft Fan | | | | | | | | | | | | | | | | 662 | 669 | 675 | |
| | | Electric Fan | | | | | | | | | | | | | | | | 621 | 628 | 634 | |
| | | DuraPlate | | | | | | | | | | | | | | | | 1717 | 1735 | 1752 | |
| | 14,0 | None | 57 | 83 | 94 | 98 | 100 | 109 | 110 | 111 | 137 | 139 | 140 | 150 | 152 | 153 | 176 | 178 | 179 | * | |
| | | Shaft Fan | 102 | 160 | 206 | 193 | 197 | 243 | 245 | 248 | 348 | 351 | 355 | 399 | 403 | 407 | 638 | 644 | 651 | 615 | |
| | | Electric Fan | 94 | 150 | 173 | 205 | 209 | 230 | 232 | 235 | 335 | 339 | 342 | 433 | 437 | 441 | 599 | 605 | 611 | 575 | |
| | | DuraPlate | 180 | 253 | 356 | 404 | 412 | 607 | 613 | 619 | 976 | 986 | 995 | 1084 | 1095 | 1106 | 1659 | 1676 | 1692 | 1640 | |
| | 16,0 | None | 56 | 80 | 95 | 98 | 100 | 108 | 109 | 110 | 136 | 137 | 139 | 150 | 151 | 153 | 183 | 185 | 186 | * | |
| | | Shaft Fan | 99 | 154 | 206 | 193 | 197 | 240 | 243 | 245 | 342 | 345 | 348 | 395 | 399 | 403 | 648 | 654 | 661 | 604 | |
| | | Electric Fan | 91 | 145 | 173 | 205 | 209 | 228 | 230 | 233 | 329 | 333 | 336 | 429 | 433 | 437 | 609 | 615 | 621 | 566 | |
| | | DuraPlate | 176 | 244 | 354 | 402 | 410 | 600 | 606 | 612 | 953 | 962 | 972 | 1074 | 1085 | 1096 | 1663 | 1679 | 1696 | 1608 | |
| | 18,0 | None | 56 | 81 | 92 | 96 | 98 | 104 | 105 | 106 | 134 | 135 | 136 | 159 | 160 | 162 | 188 | 190 | 191 | * | |
| | | Shaft Fan | 100 | 155 | 201 | 188 | 192 | 231 | 234 | 236 | 334 | 337 | 340 | 410 | 414 | 418 | 632 | 639 | 645 | 611 | |
| | | Electric Fan | 92 | 145 | 168 | 200 | 204 | 219 | 221 | 224 | 322 | 325 | 328 | 444 | 449 | 453 | 595 | 601 | 607 | 573 | |
| | | DuraPlate | 177 | 243 | 345 | 392 | 400 | 576 | 582 | 588 | 928 | 937 | 946 | 1093 | 1104 | 1115 | 1609 | 1625 | 1641 | 1605 | |
| | 20,0 | None | 51 | 73 | 84 | 90 | 92 | 102 | 103 | 104 | 125 | 126 | 127 | 145 | 146 | 148 | 179 | 181 | 182 | 170 | |
| | | Shaft Fan | 92 | 142 | 185 | 178 | 181 | 224 | 226 | 228 | 311 | 314 | 318 | 368 | 372 | 375 | 605 | 611 | 617 | 597 | |
| | | Electric Fan | 85 | 133 | 155 | 188 | 192 | 212 | 214 | 216 | 300 | 303 | 306 | 398 | 402 | 406 | 569 | 575 | 580 | 556 | |
| | | DuraPlate | 165 | 225 | 322 | 372 | 380 | 558 | 564 | 570 | 868 | 877 | 886 | 985 | 994 | 1004 | 1548 | 1563 | 1579 | 1543 | |
| 22,4 | None | 50 | 70 | 84 | 90 | 92 | 100 | 101 | 102 | 122 | 123 | 125 | 143 | 145 | 146 | 183 | 185 | 187 | 167 | | |
| | Shaft Fan | 90 | 136 | 185 | 177 | 181 | 221 | 223 | 226 | 304 | 307 | 310 | 364 | 367 | 371 | 612 | 618 | 624 | 579 | | |
| | Electric Fan | 82 | 128 | 155 | 188 | 192 | 210 | 212 | 214 | 293 | 296 | 299 | 394 | 398 | 402 | 575 | 581 | 587 | 543 | | |
| | DuraPlate | 160 | 216 | 320 | 370 | 377 | 551 | 557 | 562 | 847 | 855 | 864 | 975 | 984 | 994 | 1549 | 1564 | 1580 | 1507 | | |
| 25,0 | None | 51 | 71 | 82 | 88 | 90 | 96 | 97 | 98 | 119 | 120 | 122 | 150 | 151 | 153 | 208 | 210 | 212 | 170 | | |
| | Shaft Fan | 91 | 137 | 180 | 172 | 176 | 212 | 214 | 216 | 296 | 299 | 302 | 376 | 379 | 383 | 598 | 604 | 610 | 581 | | |
| | Electric Fan | 83 | 128 | 151 | 183 | 187 | 201 | 203 | 205 | 286 | 289 | 292 | 406 | 410 | 414 | 566 | 571 | 577 | 546 | | |
| | DuraPlate | 161 | 216 | 312 | 360 | 367 | 528 | 533 | 538 | 823 | 832 | 840 | 991 | 1001 | 1011 | 1521 | 1536 | 1551 | 1500 | | |
| 28,0 | None | 42 | 62 | 70 | 79 | 81 | 95 | 96 | 97 | 118 | 119 | 120 | 141 | 142 | 143 | 198 | 200 | 202 | 206 | | |
| | Shaft Fan | 77 | 122 | 152 | 154 | 157 | 202 | 204 | 206 | 276 | 278 | 281 | 331 | 335 | 338 | 572 | 578 | 583 | 597 | | |
| | Electric Fan | 71 | 114 | 127 | 163 | 166 | 192 | 194 | 196 | 266 | 269 | 272 | 357 | 361 | 364 | 540 | 546 | 551 | 565 | | |
| | DuraPlate | 134 | 188 | 263 | 319 | 325 | 409 | 413 | 418 | 798 | 806 | 814 | 977 | 984 | 994 | 1463 | 1478 | 1493 | 1528 | | |
| 31,5 | None | 41 | 60 | 70 | 79 | 81 | 94 | 95 | 96 | 115 | 116 | 117 | 139 | 140 | 141 | 201 | 203 | 205 | 201 | | |
| | Shaft Fan | 75 | 117 | 152 | 153 | 156 | 200 | 202 | 204 | 269 | 272 | 275 | 327 | 330 | 334 | 577 | 583 | 588 | 582 | | |
| | Electric Fan | 69 | 110 | 127 | 162 | 166 | 190 | 192 | 194 | 260 | 263 | 265 | 353 | 356 | 360 | 545 | 551 | 556 | 550 | | |
| | DuraPlate | 130 | 181 | 262 | 317 | 323 | 404 | 408 | 412 | 778 | 786 | 793 | 979 | 986 | 994 | 1463 | 1478 | 1492 | 1492 | | |
| 35,5 | None | 42 | 61 | 68 | 78 | 79 | 90 | 91 | 92 | 112 | 113 | 114 | 144 | 146 | 147 | 197 | 199 | 201 | 202 | | |
| | Shaft Fan | 76 | 118 | 148 | 149 | 152 | 191 | 193 | 195 | 262 | 265 | 268 | 337 | 341 | 344 | 557 | 562 | 568 | 583 | | |
| | Electric Fan | 69 | 110 | 124 | 158 | 161 | 387 | 391 | 395 | 254 | 256 | 259 | 363 | 367 | 370 | 527 | 532 | 537 | 551 | | |
| | DuraPlate | 131 | 181 | 256 | 309 | 315 | 387 | 391 | 395 | 757 | 765 | 772 | 933 | 940 | 947 | 1406 | 1420 | 1434 | 1483 | | |
| 40,0 | None | 39 | 56 | 64 | 69 | 71 | 78 | 79 | 80 | 111 | 112 | 113 | 130 | 132 | 133 | 186 | 188 | 190 | 195 | | |
| | Shaft Fan | 71 | 110 | 140 | 137 | 139 | 173 | 175 | 176 | 257 | 260 | 262 | 305 | 308 | 311 | 530 | 536 | 541 | 556 | | |
| | Electric Fan | 65 | 103 | 117 | 145 | 148 | 164 | 166 | 167 | 249 | 251 | 254 | 329 | 332 | 335 | 502 | 507 | 512 | 525 | | |
| | DuraPlate | 124 | 170 | 243 | 287 | 293 | 359 | 363 | 366 | 738 | 745 | 752 | 917 | 924 | 931 | 1350 | 1363 | 1377 | 1412 | | |
| 45,0 | None | 38 | 54 | 64 | 69 | 71 | 77 | 78 | 79 | 108 | 109 | 110 | 130 | 130 | 131 | 189 | 191 | 193 | 189 | | |
| | Shaft Fan | 69 | 106 | 140 | 136 | 139 | 171 | 173 | 174 | 251 | 253 | 256 | 301 | 304 | 307 | 535 | 540 | 546 | 540 | | |
| | Electric Fan | 63 | 99 | 117 | 145 | 148 | 162 | 164 | 165 | 242 | 245 | 247 | 324 | 328 | 331 | 506 | 511 | 516 | 511 | | |
| | DuraPlate | 120 | 164 | 241 | 285 | 291 | 355 | 358 | 362 | 718 | 725 | 732 | 899 | 906 | 913 | 1350 | 1363 | 1377 | 1376 | | |
| 50,0 | None | 38 | 55 | 63 | 68 | 69 | 74 | 74 | 75 | 105 | 106 | 107 | 134 | 135 | 137 | 188 | 190 | 191 | 190 | | |
| | Shaft Fan | 70 | 106 | 136 | 133 | 135 | 163 | 165 | 166 | 244 | 246 | 248 | 311 | 314 | 317 | 522 | 527 | 533 | 540 | | |
| | Electric Fan | 64 | 99 | 114 | 141 | 144 | 155 | 156 | 158 | 235 | 238 | 240 | 334 | 338 | 341 | 494 | 499 | 504 | 511 | | |
| | DuraPlate | 121 | 163 | 235 | 277 | 283 | 339 | 343 | 346 | 696 | 703 | 709 | 872 | 879 | 886 | 1303 | 1316 | 1329 | 1368 | | |
| 56,0 | None | 38 | 54 | 62 | 65 | 67 | 74 | 75 | 76 | 93 | 94 | 95 | 97 | 98 | 99 | 177 | 178 | 180 | 186 | | |
| | Shaft Fan | 69 | 107 | 134 | 128 | 131 | 163 | 165 | 166 | 227 | 229 | 232 | 260 | 262 | 265 | 496 | 501 | 506 | 521 | | |
| | Electric Fan | 63 | 100 | 113 | 136 | 139 | 155 | 156 | 158 | 219 | 221 | 223 | 282 | 285 | 288 | 470 | 474 | 479 | 493 | | |
| | DuraPlate | 119 | 168 | 231 | 265 | 270 | 335 | 338 | 342 | 652 | 658 | 665 | 833 | 840 | 847 | 1249 | 1261 | 1274 | 1308 | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|---------|--------------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1500 | 63,0 | None | 36 | 52 | 61 | 65 | 67 | 73 | 74 | 75 | 90 | 91 | 92 | 96 | 97 | 98 | 180 | 182 | 183 | 180 |
| | | Shaft Fan | 66 | 103 | 131 | 127 | 129 | 161 | 163 | 164 | 221 | 223 | 226 | 255 | 257 | 260 | 501 | 506 | 511 | 505 |
| | | Electric Fan | 61 | 96 | 111 | 134 | 137 | 153 | 154 | 156 | 213 | 216 | 218 | 276 | 279 | 282 | 474 | 479 | 484 | 478 |
| | | DuraPlate | 116 | 162 | 222 | 259 | 264 | 331 | 334 | 338 | 635 | 641 | 648 | 577 | 582 | 588 | 1250 | 1262 | 1275 | 1273 |
| | 71,0 | None | 37 | 52 | 59 | 64 | 65 | 70 | 70 | 71 | 88 | 89 | 89 | 100 | 101 | 102 | 153 | 154 | 156 | 181 |
| | | Shaft Fan | 67 | 103 | 128 | 123 | 126 | 153 | 155 | 156 | 215 | 217 | 219 | 264 | 266 | 269 | 415 | 419 | 423 | 506 |
| | | Electric Fan | 61 | 96 | 108 | 130 | 133 | 145 | 147 | 148 | 207 | 209 | 212 | 288 | 290 | 293 | 393 | 397 | 401 | 479 |
| | | DuraPlate | 117 | 161 | 216 | 252 | 257 | 315 | 319 | 322 | 617 | 623 | 629 | 589 | 595 | 601 | 759 | 766 | 774 | 1266 |
| | 80,0 | None | 33 | 42 | 53 | 55 | 56 | 66 | 66 | 67 | 86 | 87 | 87 | 103 | 104 | 105 | 155 | 157 | 158 | 155 |
| | | Shaft Fan | 59 | 82 | 115 | 106 | 108 | 139 | 140 | 142 | 196 | 198 | 200 | 237 | 239 | 241 | 419 | 423 | 427 | 423 |
| | | Electric Fan | 54 | 77 | 96 | 113 | 115 | 132 | 133 | 135 | 190 | 192 | 193 | 255 | 258 | 260 | 397 | 401 | 405 | 400 |
| | | DuraPlate | 86 | 110 | 145 | 163 | 166 | 217 | 219 | 222 | 386 | 390 | 394 | 474 | 479 | 484 | 762 | 769 | 777 | 773 |
| | 90,0 | None | 33 | 42 | 52 | 54 | 55 | 63 | 63 | 64 | 83 | 84 | 85 | 107 | 108 | 109 | 152 | 154 | 155 | 156 |
| | | Shaft Fan | 59 | 82 | 112 | 103 | 106 | 133 | 134 | 135 | 191 | 193 | 195 | 245 | 247 | 249 | 408 | 412 | 416 | 423 |
| | | Electric Fan | 54 | 77 | 94 | 110 | 112 | 126 | 127 | 129 | 184 | 186 | 188 | 263 | 266 | 268 | 386 | 390 | 394 | 401 |
| | | DuraPlate | 87 | 110 | 141 | 159 | 162 | 208 | 210 | 212 | 375 | 379 | 383 | 486 | 490 | 495 | 738 | 745 | 753 | 771 |
| | 100 | None | 32 | 42 | 51 | 52 | 53 | 63 | 63 | 64 | 83 | 84 | 85 | 103 | 104 | 105 | 143 | 145 | 146 | 151 |
| | | Shaft Fan | 58 | 83 | 110 | 100 | 102 | 132 | 134 | 135 | 190 | 192 | 194 | 234 | 237 | 239 | 387 | 391 | 395 | 406 |
| | | Electric Fan | 53 | 78 | 92 | 106 | 108 | 126 | 127 | 128 | 184 | 186 | 187 | 252 | 254 | 257 | 367 | 371 | 374 | 385 |
| | | DuraPlate | 85 | 113 | 138 | 153 | 156 | 206 | 208 | 210 | 373 | 376 | 380 | 459 | 463 | 468 | 705 | 712 | 719 | 738 |
| | 112 | None | 31 | 40 | 51 | 52 | 53 | 62 | 63 | 63 | 81 | 82 | 83 | 101 | 102 | 103 | 146 | 147 | 149 | 146 |
| | | Shaft Fan | 56 | 80 | 108 | 99 | 101 | 130 | 132 | 133 | 185 | 187 | 189 | 231 | 233 | 235 | 391 | 395 | 399 | 394 |
| | | Electric Fan | 51 | 75 | 91 | 105 | 107 | 124 | 125 | 126 | 179 | 181 | 182 | 248 | 251 | 253 | 371 | 375 | 378 | 374 |
| | | DuraPlate | 82 | 109 | 136 | 152 | 155 | 203 | 205 | 208 | 363 | 366 | 370 | 453 | 458 | 462 | 709 | 716 | 723 | 718 |
| 125 | None | 32 | 41 | 49 | 50 | 51 | 59 | 59 | 60 | 79 | 80 | 81 | 106 | 107 | 108 | | | | 147 | |
| | Shaft Fan | 57 | 81 | 105 | 97 | 99 | 124 | 125 | 127 | 180 | 182 | 184 | 239 | 241 | 244 | | | | 395 | |
| | Electric Fan | 52 | 75 | 89 | 103 | 105 | 118 | 119 | 120 | 174 | 176 | 177 | 257 | 259 | 262 | | | | 374 | |
| | DuraPlate | 83 | 109 | 132 | 148 | 151 | 194 | 196 | 198 | 352 | 356 | 360 | 464 | 469 | 473 | | | | 717 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|---------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1500 | 8,00 | None | * | * | * | | | * | * | * | | | |
| | | Shaft Fan | 610 | 616 | 623 | | | * | * | * | | | |
| | | Electric Fan | 475 | 480 | 484 | | | * | * | * | | | |
| | | DuraPlate | 4382 | 4425 | 4469 | | | 4466 | 4510 | 4555 | | | |
| | 9,00 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 682 | 689 | 696 | 450 | 459 | * | * | * | * | * | * |
| | | Electric Fan | 547 | 552 | 558 | 320 | 326 | * | * | * | * | * | * |
| | | DuraPlate | 4336 | 4379 | 4423 | 4235 | 4320 | 4598 | 4644 | 4690 | 3936 | 3976 | 4015 |
| | 10,0 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 687 | 694 | 701 | 554 | 566 | * | * | * | * | * | * |
| | | Electric Fan | 555 | 561 | 567 | 420 | 428 | * | * | * | * | * | * |
| | | DuraPlate | 4255 | 4297 | 4340 | 4244 | 4328 | 4607 | 4653 | 4699 | 4213 | 4255 | 4297 |
| | 11,2 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 761 | 769 | 776 | 579 | 590 | * | * | * | * | * | * |
| | | Electric Fan | 635 | 641 | 647 | 447 | 456 | * | * | * | * | * | * |
| | | DuraPlate | 4123 | 4164 | 4206 | 4177 | 4261 | 4908 | 4957 | 5006 | 4282 | 4325 | 4368 |
| | 12,5 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 890 | 899 | 908 | 696 | 710 | 765 | 773 | 781 | * | * | * |
| | | Electric Fan | 777 | 785 | 793 | 568 | 579 | 392 | 396 | 400 | * | * | * |
| | | DuraPlate | 3218 | 3251 | 3283 | 4083 | 4164 | 4166 | 4207 | 4249 | 4688 | 4735 | 4781 |
| 14,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 897 | 905 | 914 | 849 | 866 | 794 | 802 | 810 | 637 | 643 | 650 | |
| | Electric Fan | 786 | 794 | 802 | 736 | 751 | 431 | 436 | 440 | 281 | 284 | 287 | |
| | DuraPlate | 3160 | 3191 | 3223 | 3179 | 3242 | 4085 | 4126 | 4166 | 4037 | 4078 | 4118 | |
| 16,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 872 | 881 | 889 | 872 | 890 | 792 | 800 | 808 | 700 | 707 | 714 | |
| | Electric Fan | 764 | 772 | 779 | 761 | 777 | 438 | 443 | 447 | 348 | 352 | 355 | |
| | DuraPlate | 3088 | 3119 | 3150 | 3148 | 3211 | 4017 | 4058 | 4098 | 3989 | 4029 | 4068 | |
| 18,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 866 | 874 | 883 | 852 | 869 | 927 | 936 | 945 | 712 | 719 | 726 | |
| | Electric Fan | 765 | 772 | 780 | 744 | 759 | 582 | 588 | 594 | 368 | 372 | 376 | |
| | DuraPlate | 2940 | 2969 | 2999 | 3079 | 3141 | 3916 | 3955 | 3994 | 3933 | 3972 | 4012 | |
| 20,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 862 | 870 | 879 | 843 | 860 | 906 | 915 | 925 | 876 | 885 | 894 | |
| | Electric Fan | 763 | 770 | 778 | 743 | 757 | 575 | 580 | 586 | 536 | 542 | 547 | |
| | DuraPlate | 2878 | 2907 | 2935 | 2917 | 2976 | 3801 | 3839 | 3877 | 3867 | 3906 | 3944 | |
| 22,4 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 834 | 842 | 851 | 852 | 869 | 883 | 892 | 901 | 866 | 875 | 884 | |
| | Electric Fan | 738 | 745 | 752 | 753 | 768 | 561 | 566 | 572 | 539 | 544 | 550 | |
| | DuraPlate | 2811 | 2839 | 2867 | 2878 | 2935 | 3724 | 3762 | 3799 | 3760 | 3798 | 3835 | |
| 25,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 880 | 889 | 898 | 827 | 843 | 937 | 947 | 956 | 849 | 857 | 866 | |
| | Electric Fan | 796 | 804 | 812 | 730 | 745 | 629 | 635 | 642 | 530 | 535 | 541 | |
| | DuraPlate | 2106 | 2127 | 2148 | 2812 | 2868 | 3564 | 3600 | 3635 | 3687 | 3724 | 3761 | |
| 28,0 | None | 166 | 167 | 169 | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 872 | 881 | 889 | 866 | 883 | 1171 | 1183 | 1195 | 912 | 921 | 930 | |
| | Electric Fan | 789 | 797 | 805 | 782 | 797 | 889 | 898 | 907 | 607 | 613 | 619 | |
| | DuraPlate | 2067 | 2088 | 2109 | 2090 | 2132 | 2813 | 2841 | 2869 | 3538 | 3573 | 3609 | |
| 31,5 | None | 159 | 160 | 162 | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 845 | 853 | 862 | 869 | 886 | 1138 | 1150 | 1161 | 1149 | 1161 | 1172 | |
| | Electric Fan | 764 | 772 | 780 | 786 | 802 | 862 | 871 | 880 | 869 | 877 | 886 | |
| | DuraPlate | 2018 | 2038 | 2058 | 2068 | 2110 | 2753 | 2781 | 2808 | 2790 | 2818 | 2846 | |
| 35,5 | None | 156 | 157 | 159 | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 788 | 796 | 804 | 843 | 859 | 1133 | 1145 | 1156 | 1119 | 1130 | 1141 | |
| | Electric Fan | 714 | 721 | 728 | 762 | 777 | 870 | 878 | 887 | 844 | 853 | 861 | |
| | DuraPlate | 1866 | 1884 | 1903 | 2020 | 2060 | 2662 | 2688 | 2715 | 2732 | 2759 | 2786 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|---------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1500 | 40,0 | None | 156 | 158 | 160 | 151 | 154 | * | * | * | * | * | * |
| | | Shaft Fan | 779 | 787 | 794 | 776 | 792 | 1088 | 1099 | 1110 | 1118 | 1129 | 1140 |
| | | Electric Fan | 706 | 713 | 720 | 703 | 717 | 834 | 842 | 850 | 856 | 864 | 873 |
| | | DuraPlate | 1830 | 1848 | 1866 | 1853 | 1890 | 2572 | 2598 | 2624 | 2646 | 2673 | 2699 |
| | 45,0 | None | 149 | 151 | 152 | 155 | 158 | * | * | * | * | * | * |
| | | Shaft Fan | 754 | 762 | 769 | 777 | 793 | 1055 | 1065 | 1076 | 1073 | 1084 | 1094 |
| | | Electric Fan | 683 | 690 | 697 | 705 | 719 | 806 | 814 | 822 | 820 | 828 | 836 |
| | | DuraPlate | 1786 | 1804 | 1822 | 1832 | 1868 | 2514 | 2539 | 2564 | 2556 | 2581 | 2607 |
| | 50,0 | None | 151 | 153 | 154 | 148 | 151 | * | * | * | * | * | * |
| | | Shaft Fan | 757 | 764 | 772 | 753 | 768 | 1095 | 1105 | 1116 | 1040 | 1051 | 1061 |
| | | Electric Fan | 684 | 691 | 698 | 682 | 696 | 836 | 845 | 853 | 793 | 801 | 809 |
| | | DuraPlate | 1841 | 1860 | 1878 | 1788 | 1824 | 2655 | 2682 | 2708 | 2498 | 2523 | 2548 |
| 56,0 | None | 151 | 153 | 154 | 147 | 150 | 121 | 122 | 123 | * | * | * | |
| | Shaft Fan | 746 | 753 | 761 | 745 | 760 | 1077 | 1088 | 1099 | 1079 | 1090 | 1101 | |
| | Electric Fan | 675 | 682 | 689 | 673 | 687 | 823 | 831 | 839 | 822 | 831 | 839 | |
| | DuraPlate | 1795 | 1813 | 1831 | 1828 | 1864 | 2617 | 2643 | 2670 | 2638 | 2664 | 2690 | |
| 63,0 | None | 144 | 145 | 147 | 150 | 153 | 115 | 116 | 117 | * | * | * | |
| | Shaft Fan | 720 | 727 | 734 | 745 | 760 | 1040 | 1051 | 1061 | 1062 | 1073 | 1083 | |
| | Electric Fan | 651 | 658 | 664 | 674 | 688 | 793 | 801 | 808 | 809 | 817 | 826 | |
| | DuraPlate | 1747 | 1765 | 1782 | 1798 | 1834 | 2548 | 2573 | 2599 | 2600 | 2626 | 2652 | |
| 71,0 | None | 157 | 159 | 160 | * | * | 250 | 253 | 255 | * | * | * | |
| | Shaft Fan | 586 | 592 | 597 | 573 | 584 | 983 | 993 | 1003 | 1037 | 1048 | 1058 | |
| | Electric Fan | 536 | 541 | 547 | 504 | 514 | 800 | 808 | 816 | 791 | 799 | 807 | |
| | DuraPlate | 1389 | 1403 | 1417 | 1615 | 1647 | 2164 | 2185 | 2207 | 2542 | 2568 | 2593 | |
| 80,0 | None | 151 | 152 | 154 | 157 | 160 | 240 | 243 | 245 | 245 | 248 | 250 | |
| | Shaft Fan | 569 | 575 | 580 | 585 | 597 | 956 | 966 | 975 | 973 | 982 | 992 | |
| | Electric Fan | 520 | 525 | 530 | 535 | 546 | 776 | 784 | 792 | 790 | 798 | 806 | |
| | DuraPlate | 1359 | 1373 | 1386 | 1390 | 1418 | 2119 | 2140 | 2162 | 2152 | 2173 | 2195 | |
| 90,0 | None | 149 | 150 | 152 | 150 | 153 | 171 | 172 | 174 | 236 | 238 | 240 | |
| | Shaft Fan | 572 | 578 | 584 | 569 | 580 | 905 | 914 | 923 | 946 | 955 | 965 | |
| | Electric Fan | 522 | 527 | 532 | 520 | 530 | 714 | 721 | 728 | 767 | 774 | 782 | |
| | DuraPlate | 1414 | 1428 | 1442 | 1391 | 1419 | 2187 | 2209 | 2231 | 2108 | 2129 | 2150 | |
| 100 | None | 149 | 150 | 152 | 145 | 148 | 167 | 169 | 171 | 167 | 168 | 170 | |
| | Shaft Fan | 566 | 571 | 577 | 564 | 576 | 890 | 899 | 908 | 893 | 902 | 911 | |
| | Electric Fan | 516 | 521 | 527 | 514 | 524 | 701 | 708 | 715 | 703 | 710 | 717 | |
| | DuraPlate | 1385 | 1398 | 1412 | 1404 | 1432 | 2157 | 2179 | 2200 | 2174 | 2195 | 2217 | |
| 112 | None | 142 | 143 | 145 | 148 | 151 | 160 | 161 | 163 | 163 | 165 | 167 | |
| | Shaft Fan | 548 | 553 | 559 | 565 | 576 | 861 | 870 | 878 | 878 | 887 | 896 | |
| | Electric Fan | 499 | 504 | 509 | 516 | 526 | 677 | 684 | 691 | 691 | 698 | 705 | |
| | DuraPlate | 1351 | 1365 | 1378 | 1386 | 1414 | 2104 | 2125 | 2146 | 2144 | 2165 | 2187 | |
| 125 | None | | | | 142 | 144 | | | | 156 | 158 | 159 | |
| | Shaft Fan | | | | 548 | 558 | | | | 850 | 859 | 867 | |
| | Electric Fan | | | | 499 | 509 | | | | 668 | 674 | 681 | |
| | DuraPlate | | | | 1353 | 1380 | | | | 2091 | 2112 | 2132 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | | |
|---------|--------------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|--|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 | |
| 1200 | 12,5 | None | | | | | | | | | | | | | | | 241 | 243 | 246 | | |
| | | Shaft Fan | | | | | | | | | | | | | | | | 598 | 604 | 610 | |
| | | Electric Fan | | | | | | | | | | | | | | | | 670 | 677 | 684 | |
| | | DuraPlate | | | | | | | | | | | | | | | | 1388 | 1401 | 1415 | |
| | 14,0 | None | 54 | 79 | 91 | 96 | 98 | 111 | 112 | 113 | 147 | 149 | 150 | 175 | 177 | 179 | 230 | 233 | 235 | 218 | |
| | | Shaft Fan | 83 | 131 | 167 | 159 | 163 | 203 | 205 | 207 | 296 | 299 | 301 | 352 | 356 | 359 | 572 | 578 | 584 | 559 | |
| | | Electric Fan | 89 | 142 | 165 | 197 | 200 | 226 | 228 | 230 | 336 | 339 | 343 | 447 | 451 | 456 | 642 | 649 | 655 | 625 | |
| | | DuraPlate | 142 | 200 | 279 | 315 | 322 | 473 | 477 | 482 | 759 | 767 | 774 | 860 | 869 | 877 | 1335 | 1348 | 1362 | 1319 | |
| | 16,0 | None | 53 | 76 | 91 | 96 | 98 | 110 | 111 | 112 | 145 | 146 | 148 | 173 | 175 | 177 | 236 | 238 | 241 | 214 | |
| | | Shaft Fan | 81 | 126 | 167 | 159 | 162 | 201 | 203 | 205 | 289 | 292 | 295 | 348 | 352 | 355 | 580 | 585 | 591 | 543 | |
| | | Electric Fan | 86 | 137 | 165 | 196 | 200 | 223 | 225 | 228 | 329 | 332 | 335 | 442 | 446 | 451 | 650 | 656 | 663 | 611 | |
| | | DuraPlate | 138 | 193 | 278 | 314 | 320 | 467 | 472 | 476 | 740 | 748 | 755 | 851 | 859 | 868 | 1338 | 1352 | 1365 | 1290 | |
| | 18,0 | None | 52 | 77 | 89 | 94 | 96 | 105 | 106 | 107 | 141 | 143 | 144 | 182 | 183 | 185 | 228 | 231 | 233 | 217 | |
| | | Shaft Fan | 80 | 126 | 163 | 155 | 158 | 192 | 194 | 196 | 282 | 285 | 288 | 361 | 364 | 368 | 555 | 560 | 566 | 546 | |
| | | Electric Fan | 85 | 137 | 161 | 191 | 195 | 214 | 216 | 218 | 320 | 324 | 327 | 455 | 460 | 465 | 621 | 628 | 634 | 614 | |
| | | DuraPlate | 139 | 192 | 271 | 306 | 312 | 448 | 452 | 457 | 721 | 728 | 735 | 867 | 876 | 885 | 1282 | 1295 | 1308 | 1287 | |
| | 20,0 | None | 47 | 67 | 80 | 87 | 89 | 101 | 102 | 103 | 129 | 131 | 132 | 159 | 160 | 162 | 216 | 219 | 221 | 209 | |
| | | Shaft Fan | 73 | 113 | 149 | 145 | 148 | 185 | 187 | 188 | 260 | 263 | 265 | 316 | 319 | 323 | 529 | 534 | 540 | 519 | |
| | | Electric Fan | 78 | 123 | 147 | 179 | 183 | 205 | 207 | 210 | 296 | 299 | 302 | 401 | 405 | 409 | 593 | 599 | 605 | 583 | |
| | | DuraPlate | 127 | 174 | 251 | 288 | 294 | 431 | 436 | 440 | 669 | 676 | 682 | 773 | 781 | 789 | 1230 | 1242 | 1255 | 1223 | |
| 22,4 | None | 46 | 65 | 81 | 87 | 89 | 100 | 101 | 102 | 126 | 128 | 129 | 157 | 158 | 160 | 221 | 223 | 225 | 203 | | |
| | Shaft Fan | 71 | 109 | 149 | 145 | 148 | 182 | 184 | 186 | 254 | 256 | 259 | 312 | 315 | 319 | 535 | 540 | 545 | 505 | | |
| | Electric Fan | 76 | 119 | 147 | 179 | 182 | 203 | 205 | 207 | 289 | 291 | 294 | 396 | 400 | 404 | 599 | 605 | 611 | 567 | | |
| | DuraPlate | 123 | 168 | 250 | 287 | 293 | 426 | 430 | 434 | 652 | 659 | 665 | 762 | 769 | 777 | 1232 | 1245 | 1257 | 1193 | | |
| 25,0 | None | 48 | 65 | 79 | 85 | 87 | 95 | 96 | 97 | 123 | 124 | 126 | 163 | 165 | 167 | 219 | 221 | 224 | 205 | | |
| | Shaft Fan | 74 | 109 | 145 | 141 | 144 | 174 | 176 | 178 | 247 | 249 | 252 | 323 | 326 | 329 | 502 | 507 | 512 | 507 | | |
| | Electric Fan | 79 | 119 | 143 | 174 | 177 | 194 | 196 | 198 | 281 | 284 | 286 | 408 | 412 | 416 | 560 | 566 | 571 | 569 | | |
| | DuraPlate | 124 | 167 | 243 | 279 | 284 | 407 | 411 | 415 | 634 | 640 | 647 | 777 | 785 | 792 | 1192 | 1204 | 1216 | 1188 | | |
| 28,0 | None | 41 | 59 | 67 | 74 | 75 | 88 | 89 | 90 | 115 | 116 | 118 | 143 | 145 | 146 | 208 | 210 | 212 | 218 | | |
| | Shaft Fan | 63 | 99 | 123 | 123 | 125 | 161 | 162 | 164 | 225 | 228 | 230 | 277 | 280 | 283 | 479 | 484 | 488 | 501 | | |
| | Electric Fan | 67 | 108 | 121 | 152 | 155 | 179 | 181 | 182 | 255 | 258 | 261 | 349 | 352 | 356 | 534 | 540 | 545 | 559 | | |
| | DuraPlate | 105 | 148 | 205 | 244 | 249 | 313 | 316 | 319 | 612 | 618 | 624 | 568 | 573 | 579 | 1144 | 1156 | 1167 | 1196 | | |
| 31,5 | None | 39 | 57 | 67 | 74 | 75 | 87 | 88 | 89 | 113 | 114 | 115 | 141 | 143 | 144 | 211 | 213 | 215 | 211 | | |
| | Shaft Fan | 61 | 95 | 123 | 123 | 125 | 159 | 160 | 162 | 220 | 222 | 224 | 274 | 276 | 279 | 483 | 488 | 493 | 487 | | |
| | Electric Fan | 65 | 104 | 121 | 151 | 154 | 177 | 178 | 180 | 249 | 252 | 254 | 344 | 348 | 351 | 539 | 544 | 550 | 544 | | |
| | DuraPlate | 101 | 143 | 205 | 243 | 248 | 309 | 312 | 315 | 596 | 602 | 608 | 561 | 566 | 572 | 1146 | 1157 | 1169 | 1166 | | |
| 35,5 | None | 40 | 58 | 65 | 72 | 73 | 83 | 84 | 85 | 110 | 111 | 112 | 149 | 150 | 150 | 205 | 205 | 207 | 213 | | |
| | Shaft Fan | 62 | 96 | 120 | 120 | 122 | 152 | 153 | 155 | 214 | 216 | 219 | 283 | 286 | 288 | 464 | 469 | 473 | 488 | | |
| | Electric Fan | 66 | 104 | 118 | 147 | 150 | 169 | 170 | 172 | 243 | 245 | 248 | 355 | 358 | 362 | 517 | 522 | 527 | 544 | | |
| | DuraPlate | 102 | 143 | 200 | 237 | 241 | 295 | 298 | 301 | 580 | 586 | 592 | 573 | 579 | 585 | 1098 | 1109 | 1120 | 1161 | | |
| 40,0 | None | 37 | 54 | 61 | 67 | 68 | 78 | 79 | 80 | 100 | 101 | 102 | 114 | 115 | 116 | 192 | 194 | 196 | 202 | | |
| | Shaft Fan | 58 | 90 | 113 | 112 | 114 | 143 | 144 | 146 | 201 | 203 | 205 | 233 | 236 | 238 | 441 | 445 | 450 | 462 | | |
| | Electric Fan | 62 | 98 | 111 | 138 | 141 | 159 | 161 | 162 | 229 | 231 | 234 | 298 | 301 | 304 | 492 | 497 | 501 | 516 | | |
| | DuraPlate | 96 | 134 | 189 | 222 | 227 | 280 | 282 | 285 | 556 | 562 | 567 | 496 | 501 | 506 | 1051 | 1062 | 1072 | 1100 | | |
| 45,0 | None | 36 | 51 | 61 | 67 | 68 | 77 | 78 | 79 | 98 | 99 | 100 | 112 | 113 | 114 | 195 | 197 | 199 | 195 | | |
| | Shaft Fan | 56 | 86 | 113 | 112 | 114 | 141 | 143 | 144 | 196 | 198 | 200 | 230 | 233 | 235 | 445 | 450 | 454 | 449 | | |
| | Electric Fan | 60 | 94 | 111 | 138 | 140 | 157 | 159 | 160 | 223 | 225 | 228 | 294 | 297 | 300 | 496 | 501 | 506 | 501 | | |
| | DuraPlate | 93 | 129 | 188 | 221 | 226 | 280 | 282 | 285 | 541 | 546 | 552 | 490 | 495 | 500 | 1053 | 1064 | 1074 | 1071 | | |
| 50,0 | None | 36 | 52 | 60 | 65 | 67 | 73 | 74 | 75 | 95 | 96 | 97 | 117 | 118 | 119 | 167 | 169 | 171 | 196 | | |
| | Shaft Fan | 57 | 86 | 110 | 109 | 111 | 135 | 136 | 137 | 191 | 192 | 194 | 238 | 241 | 243 | 405 | 409 | 413 | 449 | | |
| | Electric Fan | 60 | 94 | 108 | 134 | 137 | 150 | 151 | 153 | 217 | 219 | 221 | 303 | 306 | 309 | 454 | 458 | 463 | 501 | | |
| | DuraPlate | 94 | 128 | 183 | 215 | 219 | 264 | 266 | 269 | 524 | 530 | 535 | 502 | 507 | 512 | 986 | 995 | 1005 | 1066 | | |
| 56,0 | None | 36 | 51 | 59 | 63 | 64 | 74 | 75 | 75 | 96 | 97 | 98 | 114 | 115 | 116 | 157 | 159 | 160 | 165 | | |
| | Shaft Fan | 55 | 87 | 108 | 105 | 107 | 134 | 136 | 137 | 189 | 191 | 193 | 228 | 230 | 232 | 384 | 388 | 391 | 403 | | |
| | Electric Fan | 59 | 95 | 107 | 129 | 132 | 149 | 151 | 152 | 214 | 217 | 219 | 288 | 290 | 293 | 430 | 435 | 439 | 451 | | |
| | DuraPlate | 93 | 131 | 180 | 205 | 209 | 261 | 263 | 266 | 505 | 510 | 515 | 467 | 472 | 477 | 941 | 951 | 960 | 987 | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|------------|---------------|----------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1200 | 63,0 | None | 34 | 49 | 58 | 63 | 64 | 73 | 74 | 74 | 93 | 94 | 95 | 112 | 113 | 114 | 160 | 162 | 163 | 159 |
| | | Shaft Fan | 53 | 83 | 106 | 104 | 106 | 133 | 134 | 135 | 184 | 186 | 188 | 224 | 227 | 229 | 388 | 392 | 396 | 390 |
| | | Electric Fan | 57 | 91 | 105 | 127 | 130 | 147 | 149 | 150 | 209 | 211 | 213 | 283 | 286 | 289 | 435 | 439 | 443 | 437 |
| | | DuraPlate | 90 | 127 | 173 | 201 | 205 | 258 | 260 | 263 | 492 | 497 | 502 | 461 | 466 | 471 | 944 | 954 | 963 | 959 |
| | 71,0 | None | 35 | 50 | 57 | 61 | 62 | 69 | 70 | 70 | 90 | 91 | 92 | 117 | 118 | 119 | 151 | 152 | 154 | 161 |
| | | Shaft Fan | 54 | 84 | 103 | 101 | 103 | 126 | 127 | 129 | 179 | 181 | 183 | 233 | 235 | 237 | 340 | 343 | 346 | 391 |
| | | Electric Fan | 58 | 91 | 102 | 124 | 126 | 140 | 142 | 143 | 203 | 205 | 207 | 293 | 296 | 299 | 378 | 382 | 386 | 438 |
| | | DuraPlate | 90 | 126 | 169 | 195 | 199 | 245 | 248 | 250 | 478 | 483 | 487 | 473 | 478 | 483 | 594 | 600 | 606 | 955 |
| | 80,0 | None | 30 | 39 | 50 | 52 | 53 | 62 | 62 | 63 | 82 | 82 | 83 | 100 | 101 | 102 | 153 | 155 | 157 | 154 |
| | | Shaft Fan | 47 | 65 | 92 | 85 | 87 | 111 | 113 | 114 | 158 | 160 | 161 | 193 | 195 | 197 | 343 | 347 | 350 | 346 |
| | | Electric Fan | 50 | 71 | 90 | 105 | 107 | 124 | 125 | 126 | 179 | 181 | 183 | 244 | 246 | 249 | 382 | 386 | 390 | 385 |
| | | DuraPlate | 67 | 86 | 114 | 127 | 129 | 169 | 170 | 172 | 297 | 300 | 303 | 368 | 371 | 375 | 597 | 603 | 609 | 605 |
| | 90,0 | None | 31 | 40 | 49 | 50 | 51 | 59 | 59 | 60 | 79 | 80 | 81 | 105 | 106 | 107 | 150 | 151 | 153 | 155 |
| | | Shaft Fan | 48 | 66 | 89 | 83 | 85 | 106 | 107 | 108 | 154 | 155 | 157 | 200 | 202 | 204 | 334 | 337 | 340 | 346 |
| | | Electric Fan | 51 | 72 | 88 | 103 | 105 | 118 | 119 | 120 | 174 | 176 | 177 | 252 | 254 | 257 | 371 | 375 | 379 | 386 |
| | | DuraPlate | 68 | 86 | 111 | 123 | 126 | 161 | 163 | 164 | 288 | 291 | 294 | 378 | 381 | 385 | 579 | 585 | 590 | 604 |
| | 100 | None | 30 | 39 | 48 | 48 | 49 | 59 | 60 | 60 | 79 | 80 | 81 | 101 | 102 | 103 | 141 | 142 | 144 | 148 |
| | | Shaft Fan | 46 | 67 | 87 | 80 | 82 | 106 | 107 | 108 | 153 | 154 | 156 | 192 | 194 | 196 | 316 | 319 | 322 | 332 |
| | | Electric Fan | 50 | 73 | 86 | 99 | 101 | 118 | 119 | 120 | 173 | 175 | 176 | 240 | 243 | 245 | 352 | 355 | 359 | 369 |
| | | DuraPlate | 67 | 88 | 108 | 119 | 121 | 160 | 162 | 163 | 286 | 289 | 292 | 357 | 361 | 364 | 551 | 557 | 562 | 578 |
| | 112 | None | 29 | 38 | 47 | 48 | 49 | 58 | 59 | 59 | 77 | 78 | 79 | 99 | 100 | 101 | 144 | 145 | 146 | 143 |
| | | Shaft Fan | 45 | 64 | 86 | 80 | 81 | 105 | 106 | 107 | 149 | 150 | 152 | 189 | 191 | 192 | 320 | 323 | 326 | 322 |
| | | Electric Fan | 48 | 70 | 85 | 98 | 100 | 116 | 117 | 118 | 168 | 170 | 172 | 237 | 239 | 241 | 356 | 359 | 363 | 358 |
| | | DuraPlate | 64 | 85 | 107 | 118 | 121 | 158 | 160 | 161 | 279 | 282 | 284 | 352 | 356 | 359 | 555 | 561 | 566 | 561 |
| 125 | None | 29 | 38 | 46 | 47 | 48 | 55 | 56 | 56 | 75 | 76 | 76 | 103 | 104 | 106 | | | | 144 | |
| | Shaft Fan | 45 | 64 | 84 | 78 | 79 | 99 | 100 | 101 | 145 | 146 | 147 | 196 | 198 | 200 | | | | 323 | |
| | Electric Fan | 49 | 70 | 83 | 96 | 98 | 110 | 112 | 113 | 164 | 165 | 167 | 245 | 248 | 250 | | | | 359 | |
| | DuraPlate | 65 | 85 | 104 | 115 | 117 | 150 | 152 | 153 | 271 | 273 | 276 | 362 | 366 | 370 | | | | 561 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|------------|---------------|----------------------|------------|------|------|------|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1200 | 8,00 | None | * | * | * | | | * | * | * | | | |
| | | Shaft Fan | 837 | 846 | 854 | | | 426 | 430 | 434 | | | |
| | | Electric Fan | 941 | 951 | 960 | | | * | * | * | | | |
| | | DuraPlate | 3652 | 3688 | 3725 | | | 4365 | 4408 | 4452 | | | |
| | 9,00 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 866 | 874 | 883 | 747 | 762 | 548 | 553 | 559 | * | * | * |
| | | Electric Fan | 967 | 977 | 987 | 847 | 864 | 476 | 481 | 486 | * | * | * |
| | | DuraPlate | 3596 | 3632 | 3668 | 3567 | 3639 | 4355 | 4399 | 4442 | 4107 | 4148 | 4189 |
| | 10,0 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 849 | 857 | 866 | 800 | 816 | 584 | 590 | 595 | * | * | * |
| | | Electric Fan | 948 | 957 | 967 | 900 | 918 | 513 | 519 | 524 | * | * | * |
| | | DuraPlate | 3516 | 3551 | 3587 | 3550 | 3621 | 4308 | 4352 | 4395 | 4160 | 4201 | 4243 |
| | 11,2 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 859 | 868 | 877 | 793 | 809 | 736 | 744 | 751 | * | * | * |
| | | Electric Fan | 953 | 963 | 972 | 890 | 908 | 666 | 673 | 680 | * | * | * |
| | | DuraPlate | 3379 | 3413 | 3446 | 3478 | 3547 | 4427 | 4471 | 4516 | 4142 | 4183 | 4224 |
| | 12,5 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 870 | 879 | 888 | 824 | 841 | 1070 | 1080 | 1091 | 622 | 628 | 635 |
| | | Electric Fan | 954 | 963 | 973 | 916 | 935 | 1005 | 1015 | 1025 | 555 | 560 | 566 |
| | | DuraPlate | 2619 | 2645 | 2671 | 3358 | 3425 | 3592 | 3628 | 3664 | 4308 | 4351 | 4394 |
| 14,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 868 | 877 | 885 | 844 | 861 | 1054 | 1065 | 1075 | 999 | 1009 | 1019 | |
| | Electric Fan | 950 | 960 | 969 | 927 | 946 | 992 | 1002 | 1011 | 935 | 944 | 953 | |
| | DuraPlate | 2570 | 2595 | 2621 | 2591 | 2643 | 3500 | 3535 | 3570 | 3521 | 3556 | 3591 | |
| 16,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 841 | 849 | 858 | 856 | 873 | 1031 | 1042 | 1052 | 1000 | 1010 | 1020 | |
| | Electric Fan | 921 | 930 | 939 | 938 | 957 | 970 | 980 | 990 | 938 | 947 | 956 | |
| | DuraPlate | 2506 | 2531 | 2556 | 2565 | 2617 | 3428 | 3462 | 3496 | 3441 | 3476 | 3510 | |
| 18,0 | None | 191 | 193 | 195 | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 810 | 818 | 826 | 831 | 848 | 1063 | 1073 | 1084 | 984 | 994 | 1004 | |
| | Electric Fan | 885 | 894 | 903 | 911 | 930 | 1005 | 1015 | 1025 | 924 | 933 | 942 | |
| | DuraPlate | 2371 | 2395 | 2418 | 2504 | 2554 | 3287 | 3320 | 3353 | 3376 | 3410 | 3444 | |
| 20,0 | None | 193 | 195 | 197 | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 804 | 812 | 820 | 793 | 809 | 1027 | 1037 | 1047 | 1032 | 1042 | 1052 | |
| | Electric Fan | 877 | 885 | 894 | 868 | 885 | 971 | 981 | 990 | 975 | 984 | 994 | |
| | DuraPlate | 2322 | 2345 | 2368 | 2352 | 2399 | 3181 | 3213 | 3245 | 3256 | 3289 | 3321 | |
| 22,4 | None | 185 | 187 | 189 | 189 | 193 | * | * | * | * | * | * | |
| | Shaft Fan | 777 | 784 | 792 | 799 | 815 | 996 | 1006 | 1016 | 1000 | 1010 | 1020 | |
| | Electric Fan | 848 | 856 | 865 | 872 | 890 | 942 | 951 | 961 | 945 | 954 | 964 | |
| | DuraPlate | 2264 | 2287 | 2309 | 2323 | 2370 | 3110 | 3141 | 3172 | 3153 | 3184 | 3216 | |
| 25,0 | None | 228 | 231 | 233 | 182 | 185 | * | * | * | * | * | * | |
| | Shaft Fan | 757 | 765 | 772 | 773 | 788 | 995 | 1005 | 1015 | 972 | 982 | 992 | |
| | Electric Fan | 820 | 828 | 836 | 844 | 861 | 944 | 954 | 963 | 918 | 928 | 937 | |
| | DuraPlate | 1681 | 1698 | 1714 | 2266 | 2311 | 2953 | 2982 | 3012 | 3084 | 3115 | 3146 | |
| 28,0 | None | 229 | 231 | 234 | 222 | 226 | 239 | 241 | 244 | * | * | * | |
| | Shaft Fan | 750 | 757 | 765 | 745 | 760 | 1059 | 1070 | 1080 | 976 | 986 | 996 | |
| | Electric Fan | 811 | 819 | 827 | 807 | 823 | 1013 | 1023 | 1033 | 926 | 935 | 944 | |
| | DuraPlate | 1652 | 1668 | 1685 | 1667 | 1700 | 2285 | 2307 | 2330 | 2932 | 2961 | 2991 | |
| 31,5 | None | 219 | 221 | 224 | 227 | 232 | 230 | 232 | 234 | * | * | * | |
| | Shaft Fan | 725 | 733 | 740 | 748 | 763 | 1027 | 1038 | 1048 | 1042 | 1053 | 1063 | |
| | Electric Fan | 785 | 793 | 801 | 809 | 826 | 982 | 992 | 1002 | 996 | 1006 | 1016 | |
| | DuraPlate | 1609 | 1625 | 1642 | 1653 | 1686 | 2231 | 2254 | 2276 | 2266 | 2289 | 2311 | |
| 35,5 | None | 206 | 208 | 210 | 218 | 222 | 239 | 241 | 244 | * | * | * | |
| | Shaft Fan | 671 | 678 | 685 | 724 | 739 | 1006 | 1016 | 1026 | 1012 | 1022 | 1032 | |
| | Electric Fan | 726 | 734 | 741 | 784 | 800 | 963 | 972 | 982 | 967 | 977 | 986 | |
| | DuraPlate | 1484 | 1499 | 1513 | 1611 | 1643 | 2148 | 2169 | 2191 | 2214 | 2236 | 2258 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|---------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1200 | 40,0 | None | 206 | 208 | 210 | 200 | 204 | 227 | 229 | 231 | 233 | 235 | 237 |
| | | Shaft Fan | 664 | 671 | 677 | 661 | 674 | 964 | 974 | 984 | 993 | 1003 | 1013 |
| | | Electric Fan | 718 | 725 | 732 | 716 | 730 | 923 | 932 | 941 | 950 | 960 | 969 |
| | | DuraPlate | 1457 | 1471 | 1486 | 1472 | 1501 | 2072 | 2093 | 2113 | 2134 | 2155 | 2176 |
| | 45,0 | None | 197 | 199 | 201 | 205 | 209 | 217 | 219 | 221 | 221 | 223 | 225 |
| | | Shaft Fan | 642 | 648 | 655 | 663 | 676 | 934 | 943 | 952 | 951 | 961 | 970 |
| | | Electric Fan | 695 | 701 | 708 | 717 | 731 | 893 | 902 | 911 | 910 | 919 | 928 |
| | | DuraPlate | 1419 | 1434 | 1448 | 1458 | 1487 | 2021 | 2041 | 2061 | 2056 | 2077 | 2098 |
| | 50,0 | None | 128 | 129 | 130 | 196 | 200 | 226 | 229 | 231 | 212 | 214 | 216 |
| | | Shaft Fan | 564 | 570 | 575 | 641 | 654 | 964 | 973 | 983 | 921 | 930 | 940 |
| | | Electric Fan | 618 | 624 | 630 | 694 | 708 | 921 | 930 | 940 | 881 | 889 | 898 |
| | | DuraPlate | 1383 | 1397 | 1410 | 1421 | 1449 | 2127 | 2148 | 2169 | 2006 | 2026 | 2046 |
| 56,0 | None | 128 | 129 | 131 | 124 | 126 | 222 | 224 | 227 | 221 | 223 | 225 | |
| | Shaft Fan | 557 | 563 | 568 | 554 | 565 | 947 | 956 | 966 | 950 | 959 | 969 | |
| | Electric Fan | 610 | 616 | 622 | 608 | 620 | 905 | 914 | 923 | 908 | 917 | 926 | |
| | DuraPlate | 1351 | 1365 | 1378 | 1370 | 1397 | 2094 | 2115 | 2135 | 2110 | 2131 | 2152 | |
| 63,0 | None | 122 | 123 | 124 | 127 | 130 | 212 | 214 | 216 | 216 | 219 | 221 | |
| | Shaft Fan | 536 | 542 | 547 | 556 | 567 | 913 | 922 | 931 | 933 | 942 | 952 | |
| | Electric Fan | 588 | 593 | 599 | 609 | 621 | 872 | 881 | 890 | 891 | 900 | 909 | |
| | DuraPlate | 1312 | 1325 | 1339 | 1353 | 1380 | 2034 | 2054 | 2075 | 2077 | 2098 | 2119 | |
| 71,0 | None | 171 | 173 | 174 | 122 | 124 | 216 | 218 | 221 | 211 | 213 | 215 | |
| | Shaft Fan | 486 | 491 | 496 | 537 | 547 | 752 | 760 | 767 | 906 | 915 | 924 | |
| | Electric Fan | 524 | 529 | 534 | 588 | 600 | 722 | 729 | 737 | 865 | 874 | 882 | |
| | DuraPlate | 1095 | 1106 | 1117 | 1315 | 1341 | 1642 | 1658 | 1675 | 2024 | 2044 | 2064 | |
| 80,0 | None | 164 | 166 | 167 | 170 | 174 | 207 | 210 | 212 | 212 | 214 | 216 | |
| | Shaft Fan | 472 | 476 | 481 | 486 | 495 | 730 | 737 | 744 | 743 | 750 | 758 | |
| | Electric Fan | 508 | 513 | 518 | 523 | 533 | 700 | 707 | 714 | 713 | 720 | 727 | |
| | DuraPlate | 1070 | 1080 | 1091 | 1096 | 1118 | 1604 | 1620 | 1637 | 1630 | 1647 | 1663 | |
| 90,0 | None | 161 | 162 | 164 | 164 | 167 | 213 | 215 | 217 | 203 | 205 | 207 | |
| | Shaft Fan | 472 | 477 | 482 | 471 | 481 | 759 | 766 | 774 | 721 | 728 | 735 | |
| | Electric Fan | 510 | 515 | 520 | 508 | 518 | 727 | 734 | 742 | 691 | 698 | 705 | |
| | DuraPlate | 1107 | 1118 | 1129 | 1086 | 1108 | 1715 | 1732 | 1749 | 1593 | 1609 | 1625 | |
| 100 | None | 160 | 162 | 164 | 157 | 160 | 208 | 211 | 213 | 208 | 210 | 212 | |
| | Shaft Fan | 468 | 472 | 477 | 465 | 474 | 745 | 753 | 760 | 748 | 756 | 763 | |
| | Electric Fan | 505 | 510 | 515 | 503 | 513 | 714 | 721 | 729 | 717 | 724 | 731 | |
| | DuraPlate | 1086 | 1097 | 1107 | 1097 | 1119 | 1690 | 1706 | 1723 | 1702 | 1719 | 1736 | |
| 112 | None | 153 | 155 | 156 | 160 | 163 | 199 | 201 | 203 | 204 | 206 | 208 | |
| | Shaft Fan | 452 | 456 | 461 | 467 | 476 | 720 | 727 | 734 | 735 | 742 | 750 | |
| | Electric Fan | 488 | 493 | 498 | 504 | 514 | 690 | 697 | 704 | 704 | 711 | 718 | |
| | DuraPlate | 1057 | 1068 | 1078 | 1087 | 1108 | 1644 | 1661 | 1677 | 1676 | 1693 | 1710 | |
| 125 | None | | | | 153 | 156 | | | | 195 | 197 | 199 | |
| | Shaft Fan | | | | 451 | 460 | | | | 710 | 717 | 724 | |
| | Electric Fan | | | | 488 | 497 | | | | 680 | 687 | 694 | |
| | DuraPlate | | | | 1058 | 1080 | | | | 1632 | 1648 | 1664 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | | |
|------------|---------------|----------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|--|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 | |
| 1000 | 12,5 | None | | | | | | | | | | | | | | | 260 | 263 | 265 | | |
| | | Shaft Fan | | | | | | | | | | | | | | | | 531 | 536 | 542 | |
| | | Electric Fan | | | | | | | | | | | | | | | | 674 | 681 | 688 | |
| | | DuraPlate | | | | | | | | | | | | | | | | 1150 | 1162 | 1173 | |
| | 14,0 | None | 51 | 74 | 87 | 92 | 94 | 109 | 110 | 111 | 147 | 149 | 150 | 181 | 182 | 184 | 247 | 250 | 252 | 237 | |
| | | Shaft Fan | 69 | 109 | 141 | 136 | 138 | 174 | 176 | 177 | 255 | 257 | 260 | 310 | 313 | 316 | 507 | 512 | 517 | 492 | |
| | | Electric Fan | 83 | 134 | 157 | 188 | 191 | 218 | 220 | 222 | 327 | 330 | 334 | 441 | 445 | 450 | 644 | 651 | 657 | 629 | |
| | | DuraPlate | 120 | 164 | 228 | 257 | 262 | 384 | 387 | 391 | 615 | 621 | 627 | 704 | 711 | 718 | 1104 | 1115 | 1126 | 1089 | |
| | 16,0 | None | 49 | 71 | 88 | 92 | 94 | 107 | 108 | 109 | 144 | 145 | 147 | 178 | 180 | 182 | 252 | 255 | 257 | 231 | |
| | | Shaft Fan | 67 | 105 | 141 | 136 | 138 | 172 | 173 | 175 | 249 | 251 | 254 | 306 | 309 | 312 | 513 | 518 | 523 | 480 | |
| | | Electric Fan | 81 | 129 | 157 | 187 | 191 | 215 | 217 | 219 | 319 | 323 | 326 | 435 | 440 | 444 | 650 | 657 | 663 | 614 | |
| | | DuraPlate | 116 | 158 | 228 | 256 | 261 | 379 | 383 | 386 | 599 | 605 | 611 | 696 | 703 | 710 | 1107 | 1118 | 1130 | 1063 | |
| | 18,0 | None | 50 | 72 | 85 | 90 | 92 | 103 | 104 | 105 | 141 | 142 | 143 | 186 | 188 | 190 | 239 | 242 | 244 | 234 | |
| | | Shaft Fan | 68 | 106 | 138 | 132 | 135 | 164 | 166 | 168 | 243 | 245 | 247 | 317 | 320 | 323 | 486 | 491 | 496 | 485 | |
| | | Electric Fan | 82 | 130 | 153 | 182 | 186 | 206 | 208 | 210 | 311 | 314 | 317 | 448 | 453 | 457 | 617 | 623 | 629 | 615 | |
| | | DuraPlate | 117 | 158 | 222 | 249 | 254 | 363 | 366 | 370 | 583 | 589 | 595 | 711 | 718 | 726 | 1054 | 1065 | 1075 | 1060 | |
| | 20,0 | None | 45 | 65 | 75 | 83 | 85 | 98 | 99 | 100 | 127 | 129 | 130 | 160 | 161 | 163 | 226 | 229 | 231 | 219 | |
| | | Shaft Fan | 62 | 96 | 123 | 123 | 125 | 157 | 159 | 160 | 222 | 224 | 226 | 274 | 277 | 280 | 462 | 467 | 471 | 453 | |
| | | Electric Fan | 75 | 118 | 138 | 170 | 174 | 197 | 199 | 201 | 286 | 288 | 291 | 391 | 395 | 399 | 588 | 594 | 599 | 578 | |
| | | DuraPlate | 108 | 144 | 202 | 234 | 239 | 348 | 352 | 355 | 542 | 548 | 553 | 625 | 631 | 638 | 1009 | 1019 | 1029 | 1000 | |
| 22,4 | None | 44 | 62 | 75 | 83 | 85 | 97 | 98 | 99 | 124 | 126 | 127 | 158 | 159 | 161 | 230 | 233 | 235 | 213 | | |
| | Shaft Fan | 60 | 92 | 123 | 123 | 125 | 155 | 156 | 158 | 216 | 218 | 221 | 271 | 273 | 276 | 467 | 472 | 477 | 440 | | |
| | Electric Fan | 73 | 113 | 138 | 170 | 173 | 194 | 196 | 198 | 278 | 281 | 284 | 386 | 389 | 393 | 593 | 599 | 605 | 562 | | |
| | DuraPlate | 105 | 138 | 201 | 233 | 237 | 344 | 347 | 350 | 524 | 530 | 535 | 618 | 624 | 630 | 1012 | 1022 | 1032 | 974 | | |
| 25,0 | None | 46 | 63 | 73 | 81 | 83 | 92 | 93 | 94 | 121 | 122 | 124 | 164 | 166 | 168 | 218 | 224 | 224 | 215 | | |
| | Shaft Fan | 62 | 92 | 120 | 119 | 122 | 148 | 149 | 151 | 210 | 213 | 215 | 280 | 283 | 286 | 431 | 436 | 440 | 442 | | |
| | Electric Fan | 75 | 113 | 134 | 165 | 169 | 185 | 187 | 189 | 271 | 274 | 276 | 397 | 401 | 405 | 544 | 550 | 555 | 563 | | |
| | DuraPlate | 106 | 138 | 196 | 226 | 231 | 328 | 331 | 335 | 510 | 515 | 520 | 632 | 638 | 645 | 973 | 983 | 993 | 971 | | |
| 28,0 | None | 39 | 57 | 64 | 71 | 72 | 86 | 87 | 88 | 106 | 107 | 108 | 141 | 142 | 143 | 206 | 208 | 211 | 217 | | |
| | Shaft Fan | 53 | 84 | 104 | 104 | 107 | 137 | 139 | 140 | 185 | 187 | 189 | 238 | 240 | 243 | 410 | 414 | 418 | 430 | | |
| | Electric Fan | 64 | 103 | 116 | 145 | 148 | 172 | 174 | 176 | 238 | 241 | 243 | 336 | 340 | 343 | 518 | 524 | 529 | 543 | | |
| | DuraPlate | 90 | 122 | 168 | 198 | 202 | 256 | 258 | 261 | 485 | 490 | 494 | 622 | 627 | 631 | 932 | 941 | 950 | 975 | | |
| 31,5 | None | 37 | 54 | 64 | 71 | 72 | 85 | 86 | 86 | 104 | 105 | 106 | 139 | 140 | 141 | 210 | 212 | 214 | 210 | | |
| | Shaft Fan | 51 | 80 | 104 | 104 | 106 | 136 | 137 | 138 | 180 | 182 | 184 | 234 | 237 | 239 | 414 | 419 | 423 | 417 | | |
| | Electric Fan | 62 | 99 | 116 | 144 | 147 | 170 | 172 | 173 | 233 | 235 | 237 | 332 | 335 | 338 | 523 | 528 | 533 | 528 | | |
| | DuraPlate | 87 | 117 | 168 | 198 | 201 | 252 | 255 | 257 | 472 | 477 | 482 | 602 | 607 | 611 | 935 | 944 | 953 | 949 | | |
| 35,5 | None | 38 | 55 | 63 | 69 | 70 | 81 | 82 | 82 | 101 | 102 | 103 | 144 | 146 | 149 | 185 | 187 | 189 | 211 | | |
| | Shaft Fan | 52 | 81 | 101 | 102 | 104 | 129 | 131 | 132 | 176 | 178 | 179 | 243 | 245 | 248 | 379 | 382 | 386 | 418 | | |
| | Electric Fan | 63 | 99 | 113 | 141 | 143 | 162 | 164 | 166 | 227 | 229 | 231 | 342 | 345 | 349 | 481 | 486 | 491 | 528 | | |
| | DuraPlate | 88 | 117 | 163 | 192 | 196 | 241 | 244 | 246 | 460 | 464 | 469 | 602 | 607 | 611 | 944 | 953 | 962 | 946 | | |
| 40,0 | None | 35 | 51 | 59 | 64 | 66 | 76 | 77 | 77 | 99 | 100 | 101 | 118 | 119 | 121 | 174 | 176 | 178 | 186 | | |
| | Shaft Fan | 49 | 75 | 95 | 95 | 97 | 122 | 123 | 124 | 172 | 174 | 176 | 206 | 208 | 210 | 359 | 362 | 366 | 376 | | |
| | Electric Fan | 59 | 93 | 106 | 131 | 134 | 153 | 154 | 156 | 222 | 224 | 226 | 295 | 298 | 300 | 457 | 462 | 466 | 480 | | |
| | DuraPlate | 82 | 110 | 154 | 180 | 184 | 228 | 230 | 232 | 448 | 453 | 457 | 602 | 607 | 611 | 944 | 953 | 962 | 946 | | |
| 45,0 | None | 34 | 49 | 59 | 64 | 66 | 75 | 75 | 76 | 97 | 98 | 99 | 116 | 118 | 119 | 177 | 179 | 181 | 177 | | |
| | Shaft Fan | 47 | 72 | 95 | 95 | 97 | 120 | 121 | 122 | 168 | 169 | 171 | 203 | 205 | 207 | 363 | 367 | 370 | 365 | | |
| | Electric Fan | 57 | 89 | 106 | 131 | 134 | 151 | 152 | 154 | 216 | 218 | 220 | 291 | 293 | 296 | 462 | 466 | 471 | 465 | | |
| | DuraPlate | 80 | 105 | 154 | 179 | 183 | 214 | 216 | 219 | 436 | 440 | 445 | 603 | 607 | 611 | 938 | 946 | 954 | 950 | | |
| 50,0 | None | 35 | 49 | 57 | 62 | 64 | 71 | 72 | 73 | 94 | 95 | 96 | 122 | 123 | 124 | 174 | 176 | 178 | 178 | | |
| | Shaft Fan | 48 | 73 | 93 | 92 | 94 | 114 | 115 | 117 | 163 | 164 | 166 | 210 | 212 | 214 | 354 | 357 | 361 | 366 | | |
| | Electric Fan | 58 | 89 | 103 | 128 | 130 | 144 | 145 | 147 | 210 | 212 | 214 | 300 | 303 | 306 | 449 | 453 | 458 | 466 | | |
| | DuraPlate | 81 | 106 | 150 | 174 | 178 | 224 | 227 | 229 | 423 | 427 | 431 | 614 | 618 | 622 | 910 | 918 | 926 | 947 | | |
| 56,0 | None | 34 | 49 | 56 | 60 | 61 | 71 | 72 | 73 | 94 | 95 | 96 | 117 | 118 | 119 | 164 | 165 | 167 | 172 | | |
| | Shaft Fan | 47 | 73 | 91 | 88 | 90 | 114 | 115 | 116 | 162 | 163 | 165 | 200 | 202 | 204 | 334 | 338 | 341 | 351 | | |
| | Electric Fan | 56 | 90 | 101 | 122 | 125 | 143 | 145 | 146 | 206 | 209 | 211 | 282 | 285 | 288 | 425 | 429 | 434 | 447 | | |
| | DuraPlate | 79 | 108 | 147 | 166 | 170 | 212 | 214 | 217 | 408 | 412 | 416 | 586 | 590 | 594 | 871 | 879 | 887 | 909 | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|------------|---------------|----------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1000 | 63,0 | None | 33 | 47 | 56 | 60 | 61 | 70 | 71 | 72 | 91 | 92 | 93 | 115 | 116 | 117 | 167 | 168 | 170 | 168 |
| | | Shaft Fan | 45 | 70 | 89 | 88 | 89 | 113 | 114 | 115 | 157 | 159 | 160 | 197 | 199 | 201 | 338 | 342 | 345 | 340 |
| | | Electric Fan | 54 | 87 | 99 | 120 | 123 | 141 | 143 | 144 | 201 | 203 | 205 | 278 | 281 | 284 | 430 | 434 | 438 | 433 |
| | | DuraPlate | 76 | 103 | 142 | 163 | 167 | 210 | 212 | 214 | 397 | 401 | 405 | 381 | 385 | 388 | 775 | 783 | 791 | 786 |
| | 71,0 | None | 33 | 47 | 54 | 58 | 59 | 67 | 67 | 68 | 89 | 90 | 91 | 121 | 122 | 123 | 146 | 147 | 149 | 168 |
| | | Shaft Fan | 46 | 70 | 87 | 85 | 87 | 107 | 108 | 109 | 153 | 154 | 156 | 205 | 207 | 209 | 287 | 289 | 292 | 341 |
| | | Electric Fan | 55 | 87 | 96 | 117 | 119 | 134 | 135 | 137 | 195 | 197 | 199 | 288 | 291 | 294 | 362 | 366 | 369 | 433 |
| | | DuraPlate | 77 | 103 | 138 | 159 | 162 | 199 | 201 | 203 | 386 | 390 | 394 | 392 | 396 | 400 | 484 | 489 | 494 | 784 |
| | 80,0 | None | 29 | 37 | 47 | 49 | 50 | 58 | 59 | 59 | 77 | 78 | 79 | 96 | 97 | 98 | 148 | 150 | 151 | 148 |
| | | Shaft Fan | 39 | 55 | 76 | 72 | 73 | 93 | 94 | 95 | 132 | 134 | 135 | 163 | 165 | 167 | 290 | 293 | 296 | 292 |
| | | Electric Fan | 47 | 67 | 85 | 99 | 101 | 117 | 118 | 119 | 169 | 171 | 173 | 232 | 234 | 237 | 366 | 369 | 373 | 368 |
| | | DuraPlate | 58 | 71 | 93 | 104 | 106 | 137 | 138 | 140 | 239 | 242 | 244 | 297 | 300 | 303 | 488 | 493 | 498 | 493 |
| | 90,0 | None | 29 | 37 | 46 | 47 | 48 | 56 | 56 | 57 | 75 | 76 | 77 | 101 | 102 | 103 | 145 | 146 | 148 | 149 |
| | | Shaft Fan | 40 | 55 | 74 | 70 | 71 | 89 | 90 | 91 | 129 | 130 | 131 | 170 | 171 | 173 | 282 | 285 | 288 | 293 |
| | | Electric Fan | 48 | 68 | 83 | 97 | 99 | 111 | 113 | 114 | 165 | 166 | 168 | 240 | 242 | 245 | 355 | 358 | 362 | 369 |
| | | DuraPlate | 59 | 71 | 91 | 101 | 103 | 131 | 132 | 133 | 232 | 235 | 237 | 306 | 309 | 312 | 473 | 478 | 483 | 493 |
| | 100 | None | 28 | 37 | 45 | 46 | 46 | 56 | 56 | 57 | 75 | 76 | 76 | 96 | 97 | 98 | 136 | 137 | 139 | 143 |
| | | Shaft Fan | 39 | 55 | 73 | 67 | 68 | 89 | 90 | 90 | 128 | 129 | 130 | 162 | 164 | 165 | 266 | 269 | 272 | 280 |
| | | Electric Fan | 47 | 69 | 81 | 93 | 95 | 111 | 112 | 113 | 164 | 165 | 167 | 229 | 231 | 233 | 336 | 340 | 343 | 353 |
| | | DuraPlate | 57 | 72 | 89 | 97 | 99 | 130 | 131 | 133 | 231 | 233 | 235 | 290 | 293 | 296 | 449 | 454 | 458 | 472 |
| | 112 | None | 27 | 35 | 44 | 46 | 46 | 55 | 55 | 56 | 73 | 74 | 74 | 95 | 96 | 97 | 138 | 140 | 141 | 138 |
| | | Shaft Fan | 37 | 53 | 72 | 67 | 68 | 87 | 88 | 89 | 124 | 126 | 127 | 159 | 161 | 163 | 270 | 273 | 275 | 271 |
| | | Electric Fan | 45 | 66 | 80 | 93 | 94 | 110 | 111 | 112 | 159 | 161 | 162 | 225 | 227 | 230 | 340 | 343 | 347 | 342 |
| | | DuraPlate | 55 | 70 | 87 | 97 | 99 | 128 | 130 | 131 | 225 | 227 | 229 | 286 | 289 | 292 | 453 | 458 | 462 | 457 |
| 125 | None | 28 | 36 | 43 | 44 | 45 | 52 | 53 | 53 | 71 | 72 | 72 | 99 | 100 | 101 | | | | 139 | |
| | Shaft Fan | 38 | 54 | 70 | 65 | 66 | 83 | 84 | 85 | 121 | 122 | 123 | 166 | 168 | 169 | | | | 272 | |
| | Electric Fan | 46 | 66 | 78 | 90 | 92 | 104 | 105 | 106 | 155 | 156 | 158 | 233 | 236 | 238 | | | | 343 | |
| | DuraPlate | 56 | 70 | 85 | 94 | 96 | 122 | 123 | 124 | 218 | 220 | 222 | 295 | 298 | 301 | | | | 458 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|------------|---------------|----------------------|------------|------|------|------|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1000 | 8,00 | None | * | * | * | | | * | * | * | | | |
| | | Shaft Fan | 849 | 858 | 866 | | | 850 | 859 | 867 | | | |
| | | Electric Fan | 1099 | 1110 | 1121 | | | 1015 | 1025 | 1035 | | | |
| | | DuraPlate | 3074 | 3105 | 3136 | | | 3933 | 3973 | 4012 | | | |
| | 9,00 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 860 | 869 | 878 | 790 | 806 | 895 | 904 | 913 | 696 | 703 | 710 |
| | | Electric Fan | 1105 | 1116 | 1127 | 1036 | 1057 | 1054 | 1065 | 1075 | 857 | 866 | 874 |
| | | DuraPlate | 3022 | 3052 | 3082 | 3016 | 3076 | 3877 | 3915 | 3954 | 3784 | 3822 | 3860 |
| | 10,0 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 837 | 845 | 853 | 821 | 837 | 895 | 904 | 913 | 776 | 784 | 792 |
| | | Electric Fan | 1074 | 1085 | 1096 | 1064 | 1085 | 1050 | 1060 | 1071 | 933 | 942 | 951 |
| | | DuraPlate | 2948 | 2977 | 3007 | 2995 | 3054 | 3814 | 3852 | 3890 | 3758 | 3796 | 3833 |
| | 11,2 | None | 235 | 237 | 239 | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 825 | 833 | 841 | 803 | 819 | 964 | 973 | 983 | 794 | 802 | 810 |
| | | Electric Fan | 1050 | 1060 | 1071 | 1039 | 1060 | 1117 | 1129 | 1140 | 946 | 956 | 965 |
| | | DuraPlate | 2821 | 2849 | 2877 | 2925 | 2984 | 3858 | 3897 | 3936 | 3711 | 3749 | 3786 |
| | 12,5 | None | 262 | 264 | 267 | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 795 | 803 | 811 | 802 | 818 | 1092 | 1102 | 1113 | 890 | 899 | 908 |
| | | Electric Fan | 996 | 1006 | 1016 | 1026 | 1046 | 1230 | 1242 | 1254 | 1042 | 1053 | 1063 |
| | | DuraPlate | 2180 | 2202 | 2224 | 2808 | 2864 | 3073 | 3104 | 3135 | 3781 | 3819 | 3857 |
| 14,0 | None | 265 | 268 | 271 | 249 | 254 | * | * | * | * | * | * | |
| | Shaft Fan | 790 | 798 | 806 | 775 | 791 | 1061 | 1072 | 1082 | 1047 | 1058 | 1068 | |
| | Electric Fan | 987 | 997 | 1007 | 975 | 995 | 1194 | 1206 | 1218 | 1185 | 1196 | 1208 | |
| | DuraPlate | 2140 | 2161 | 2183 | 2158 | 2202 | 2983 | 3013 | 3043 | 3026 | 3057 | 3087 | |
| 16,0 | None | 255 | 257 | 260 | 259 | 264 | * | * | * | * | * | * | |
| | Shaft Fan | 764 | 771 | 779 | 784 | 799 | 1032 | 1043 | 1053 | 1025 | 1035 | 1046 | |
| | Electric Fan | 956 | 965 | 975 | 981 | 1000 | 1162 | 1174 | 1185 | 1157 | 1169 | 1180 | |
| | DuraPlate | 2084 | 2104 | 2125 | 2138 | 2181 | 2915 | 2944 | 2973 | 2942 | 2971 | 3001 | |
| 18,0 | None | 249 | 252 | 254 | 250 | 255 | * | * | * | * | * | * | |
| | Shaft Fan | 727 | 734 | 741 | 758 | 774 | 1025 | 1035 | 1046 | 1001 | 1011 | 1021 | |
| | Electric Fan | 907 | 916 | 925 | 951 | 970 | 1147 | 1159 | 1170 | 1130 | 1141 | 1152 | |
| | DuraPlate | 1964 | 1984 | 2003 | 2083 | 2125 | 2776 | 2804 | 2831 | 2878 | 2907 | 2935 | |
| 20,0 | None | 250 | 253 | 255 | 241 | 246 | 241 | 243 | 245 | * | * | * | |
| | Shaft Fan | 720 | 728 | 735 | 713 | 727 | 986 | 996 | 1006 | 1003 | 1013 | 1023 | |
| | Electric Fan | 896 | 905 | 914 | 892 | 909 | 1103 | 1114 | 1125 | 1124 | 1135 | 1147 | |
| | DuraPlate | 1925 | 1945 | 1964 | 1948 | 1987 | 2681 | 2708 | 2735 | 2752 | 2780 | 2807 | |
| 22,4 | None | 240 | 242 | 244 | 247 | 252 | 232 | 234 | 236 | * | * | * | |
| | Shaft Fan | 695 | 702 | 709 | 717 | 732 | 954 | 964 | 974 | 965 | 975 | 985 | |
| | Electric Fan | 866 | 875 | 884 | 894 | 911 | 1069 | 1080 | 1091 | 1082 | 1093 | 1104 | |
| | DuraPlate | 1874 | 1893 | 1912 | 1927 | 1965 | 2617 | 2643 | 2669 | 2658 | 2684 | 2711 | |
| 25,0 | None | 250 | 253 | 255 | 237 | 242 | 246 | 248 | 251 | * | * | * | |
| | Shaft Fan | 655 | 662 | 669 | 693 | 707 | 936 | 945 | 954 | 936 | 945 | 955 | |
| | Electric Fan | 806 | 814 | 822 | 865 | 882 | 1043 | 1054 | 1064 | 1050 | 1061 | 1071 | |
| | DuraPlate | 1387 | 1401 | 1415 | 1876 | 1914 | 2478 | 2502 | 2527 | 2595 | 2621 | 2647 | |
| 28,0 | None | 250 | 253 | 255 | 244 | 249 | 299 | 302 | 305 | 238 | 240 | 242 | |
| | Shaft Fan | 649 | 656 | 662 | 645 | 658 | 937 | 946 | 956 | 920 | 929 | 938 | |
| | Electric Fan | 797 | 805 | 813 | 795 | 811 | 1035 | 1045 | 1055 | 1027 | 1037 | 1047 | |
| | DuraPlate | 1364 | 1378 | 1392 | 1374 | 1402 | 1901 | 1920 | 1939 | 2459 | 2484 | 2508 | |
| 31,5 | None | 239 | 242 | 244 | 249 | 254 | 287 | 290 | 293 | 291 | 294 | 297 | |
| | Shaft Fan | 627 | 633 | 640 | 648 | 661 | 908 | 917 | 926 | 923 | 932 | 941 | |
| | Electric Fan | 771 | 779 | 787 | 796 | 812 | 1003 | 1013 | 1023 | 1020 | 1030 | 1041 | |
| | DuraPlate | 1327 | 1341 | 1354 | 1365 | 1392 | 1854 | 1872 | 1891 | 1885 | 1903 | 1922 | |
| 35,5 | None | 222 | 224 | 226 | 238 | 243 | 288 | 290 | 293 | 280 | 283 | 286 | |
| | Shaft Fan | 578 | 584 | 590 | 626 | 639 | 883 | 891 | 900 | 895 | 904 | 912 | |
| | Electric Fan | 711 | 718 | 725 | 771 | 786 | 974 | 983 | 993 | 990 | 1000 | 1010 | |
| | DuraPlate | 1222 | 1234 | 1246 | 1328 | 1355 | 1781 | 1798 | 1816 | 1838 | 1857 | 1875 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|------------|---------------|----------------------|------------|------|------|------|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1000 | 40,0 | None | 222 | 224 | 226 | 216 | 221 | 273 | 276 | 279 | 281 | 284 | 287 |
| | | Shaft Fan | 572 | 578 | 584 | 569 | 580 | 845 | 853 | 862 | 871 | 880 | 889 |
| | | Electric Fan | 702 | 709 | 716 | 701 | 715 | 933 | 942 | 952 | 962 | 972 | 981 |
| | | DuraPlate | 1201 | 1213 | 1225 | 1210 | 1234 | 1715 | 1732 | 1750 | 1768 | 1785 | 1803 |
| | 45,0 | None | 212 | 214 | 216 | 221 | 225 | 261 | 264 | 267 | 267 | 269 | 272 |
| | | Shaft Fan | 552 | 558 | 563 | 571 | 583 | 817 | 825 | 833 | 833 | 841 | 850 |
| | | Electric Fan | 679 | 686 | 693 | 701 | 715 | 903 | 912 | 921 | 921 | 930 | 939 |
| | | DuraPlate | 1168 | 1180 | 1191 | 1201 | 1225 | 1670 | 1687 | 1704 | 1701 | 1718 | 1735 |
| | 50,0 | None | 169 | 170 | 172 | 211 | 215 | 268 | 271 | 274 | 256 | 258 | 261 |
| | | Shaft Fan | 506 | 511 | 516 | 552 | 563 | 841 | 850 | 858 | 806 | 814 | 822 |
| | | Electric Fan | 636 | 643 | 649 | 679 | 693 | 932 | 941 | 950 | 891 | 900 | 909 |
| | | DuraPlate | 1151 | 1162 | 1174 | 1169 | 1193 | 1753 | 1770 | 1788 | 1657 | 1673 | 1690 |
| | 56,0 | None | 168 | 170 | 172 | 1138 | 1161 | 177 | 178 | 180 | 262 | 265 | 267 |
| | | Shaft Fan | 500 | 505 | 510 | 497 | 507 | 721 | 729 | 736 | 829 | 837 | 845 |
| | | Electric Fan | 627 | 634 | 640 | 626 | 639 | 810 | 818 | 826 | 918 | 928 | 937 |
| | | DuraPlate | 1126 | 1137 | 1149 | 1138 | 1161 | 1618 | 1634 | 1651 | 1737 | 1754 | 1772 |
| | 63,0 | None | 160 | 162 | 163 | 168 | 171 | 168 | 170 | 171 | 172 | 174 | 175 |
| | | Shaft Fan | 481 | 486 | 491 | 499 | 509 | 694 | 701 | 708 | 710 | 717 | 724 |
| | | Electric Fan | 605 | 611 | 617 | 627 | 639 | 780 | 787 | 795 | 797 | 805 | 813 |
| | | DuraPlate | 1092 | 1103 | 1114 | 1127 | 1149 | 1569 | 1584 | 1600 | 1602 | 1618 | 1635 |
| 71,0 | None | 171 | 173 | 175 | 160 | 163 | 228 | 231 | 233 | 164 | 166 | 167 | |
| | Shaft Fan | 413 | 418 | 422 | 481 | 491 | 642 | 648 | 654 | 683 | 690 | 697 | |
| | Electric Fan | 504 | 509 | 514 | 605 | 617 | 705 | 712 | 719 | 768 | 776 | 783 | |
| | DuraPlate | 898 | 906 | 915 | 1094 | 1115 | 1341 | 1355 | 1368 | 1554 | 1569 | 1585 | |
| 80,0 | None | 165 | 166 | 168 | 171 | 174 | 219 | 221 | 224 | 224 | 226 | 228 | |
| | Shaft Fan | 400 | 404 | 408 | 413 | 421 | 621 | 628 | 634 | 633 | 639 | 646 | |
| | Electric Fan | 488 | 493 | 498 | 503 | 513 | 684 | 691 | 697 | 696 | 703 | 710 | |
| | DuraPlate | 875 | 884 | 893 | 898 | 916 | 1309 | 1322 | 1335 | 1330 | 1344 | 1357 | |
| 90,0 | None | 161 | 162 | 164 | 164 | 167 | 224 | 226 | 229 | 215 | 217 | 219 | |
| | Shaft Fan | 400 | 404 | 408 | 400 | 408 | 645 | 651 | 658 | 613 | 619 | 626 | |
| | Electric Fan | 491 | 496 | 501 | 488 | 498 | 711 | 718 | 725 | 675 | 682 | 689 | |
| | DuraPlate | 901 | 911 | 920 | 885 | 903 | 1394 | 1407 | 1421 | 1298 | 1311 | 1324 | |
| 100 | None | 161 | 162 | 164 | 157 | 160 | 219 | 221 | 224 | 219 | 222 | 224 | |
| | Shaft Fan | 396 | 400 | 404 | 393 | 401 | 633 | 639 | 646 | 635 | 642 | 648 | |
| | Electric Fan | 486 | 491 | 495 | 484 | 494 | 698 | 705 | 712 | 701 | 708 | 715 | |
| | DuraPlate | 886 | 894 | 903 | 892 | 910 | 1372 | 1386 | 1399 | 1381 | 1395 | 1409 | |
| 112 | None | 154 | 155 | 157 | 160 | 163 | 210 | 212 | 214 | 215 | 217 | 219 | |
| | Shaft Fan | 382 | 386 | 390 | 395 | 403 | 611 | 617 | 623 | 623 | 630 | 636 | |
| | Electric Fan | 469 | 474 | 479 | 485 | 495 | 674 | 681 | 688 | 689 | 695 | 702 | |
| | DuraPlate | 861 | 869 | 878 | 886 | 904 | 1333 | 1346 | 1359 | 1359 | 1373 | 1386 | |
| 125 | None | | | | 153 | 156 | | | | 205 | 207 | 209 | |
| | Shaft Fan | | | | 382 | 389 | | | | 602 | 608 | 614 | |
| | Electric Fan | | | | 469 | 479 | | | | 665 | 672 | 678 | |
| | DuraPlate | | | | 862 | 879 | | | | 1321 | 1334 | 1347 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | | |
|---------|--------------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|--|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 | |
| 900 | 12,5 | None | | | | | | | | | | | | | | | 264 | 267 | 269 | | |
| | | Shaft Fan | | | | | | | | | | | | | | | | 492 | 497 | 502 | |
| | | Electric Fan | | | | | | | | | | | | | | | | 668 | 675 | 681 | |
| | | DuraPlate | | | | | | | | | | | | | | | | 1028 | 1039 | 1049 | |
| | 14,0 | None | 49 | 72 | 83 | 90 | 92 | 106 | 107 | 108 | 145 | 147 | 148 | 180 | 182 | 184 | 250 | 253 | 256 | 240 | |
| | | Shaft Fan | 63 | 100 | 126 | 124 | 126 | 159 | 160 | 162 | 233 | 235 | 238 | 286 | 289 | 292 | 469 | 473 | 478 | 455 | |
| | | Electric Fan | 81 | 131 | 151 | 182 | 186 | 212 | 214 | 216 | 320 | 323 | 326 | 433 | 438 | 442 | 638 | 644 | 650 | 623 | |
| | | DuraPlate | 110 | 151 | 202 | 228 | 232 | 340 | 343 | 346 | 543 | 549 | 554 | 626 | 632 | 638 | 985 | 995 | 1005 | 970 | |
| | 16,0 | None | 48 | 69 | 83 | 90 | 92 | 105 | 106 | 107 | 142 | 143 | 145 | 178 | 180 | 181 | 255 | 258 | 260 | 234 | |
| | | Shaft Fan | 61 | 96 | 126 | 123 | 126 | 157 | 158 | 160 | 227 | 230 | 232 | 282 | 285 | 288 | 474 | 479 | 484 | 447 | |
| | | Electric Fan | 79 | 125 | 151 | 182 | 185 | 210 | 212 | 214 | 312 | 315 | 318 | 418 | 424 | 431 | 643 | 650 | 656 | 607 | |
| | | DuraPlate | 107 | 146 | 201 | 227 | 231 | 335 | 339 | 342 | 529 | 535 | 540 | 628 | 632 | 636 | 989 | 999 | 1009 | 946 | |
| | 18,0 | None | 48 | 70 | 81 | 88 | 89 | 100 | 101 | 102 | 138 | 140 | 141 | 185 | 187 | 189 | 240 | 243 | 245 | 236 | |
| | | Shaft Fan | 62 | 96 | 123 | 120 | 123 | 150 | 151 | 153 | 222 | 224 | 226 | 293 | 295 | 298 | 447 | 452 | 456 | 447 | |
| | | Electric Fan | 80 | 126 | 147 | 177 | 180 | 200 | 202 | 204 | 304 | 307 | 310 | 440 | 445 | 449 | 608 | 614 | 620 | 608 | |
| | | DuraPlate | 108 | 146 | 196 | 221 | 225 | 321 | 324 | 327 | 515 | 520 | 525 | 633 | 639 | 645 | 938 | 948 | 957 | 944 | |
| | 20,0 | None | 44 | 63 | 73 | 79 | 80 | 91 | 92 | 93 | 125 | 126 | 128 | 158 | 160 | 161 | 227 | 229 | 232 | 220 | |
| | | Shaft Fan | 56 | 87 | 112 | 109 | 111 | 138 | 139 | 140 | 202 | 204 | 206 | 252 | 254 | 257 | 425 | 429 | 433 | 416 | |
| | | Electric Fan | 73 | 114 | 134 | 163 | 166 | 186 | 188 | 190 | 278 | 281 | 284 | 382 | 386 | 390 | 579 | 585 | 590 | 569 | |
| | | DuraPlate | 99 | 132 | 180 | 204 | 208 | 302 | 305 | 308 | 473 | 478 | 483 | 553 | 559 | 564 | 896 | 905 | 914 | 888 | |
| 22,4 | None | 43 | 60 | 73 | 79 | 80 | 90 | 91 | 92 | 122 | 123 | 125 | 156 | 157 | 159 | 231 | 233 | 235 | 214 | | |
| | Shaft Fan | 55 | 83 | 112 | 109 | 111 | 136 | 137 | 139 | 197 | 199 | 201 | 248 | 251 | 253 | 430 | 434 | 438 | 404 | | |
| | Electric Fan | 71 | 109 | 134 | 162 | 165 | 184 | 185 | 187 | 271 | 274 | 277 | 377 | 381 | 385 | 584 | 590 | 595 | 554 | | |
| | DuraPlate | 96 | 127 | 179 | 203 | 207 | 298 | 301 | 304 | 461 | 466 | 471 | 546 | 552 | 557 | 900 | 909 | 918 | 864 | | |
| 25,0 | None | 44 | 61 | 72 | 77 | 78 | 86 | 86 | 87 | 119 | 120 | 121 | 162 | 164 | 166 | 215 | 217 | 220 | 215 | | |
| | Shaft Fan | 56 | 84 | 109 | 106 | 108 | 130 | 131 | 132 | 191 | 193 | 195 | 257 | 260 | 262 | 394 | 398 | 402 | 405 | | |
| | Electric Fan | 72 | 110 | 130 | 158 | 161 | 175 | 177 | 179 | 264 | 266 | 269 | 389 | 392 | 396 | 532 | 538 | 543 | 554 | | |
| | DuraPlate | 97 | 127 | 174 | 198 | 202 | 284 | 287 | 290 | 448 | 453 | 457 | 560 | 565 | 571 | 864 | 873 | 881 | 862 | | |
| 28,0 | None | 38 | 55 | 62 | 69 | 70 | 84 | 85 | 86 | 105 | 106 | 107 | 130 | 131 | 132 | 205 | 205 | 207 | 214 | | |
| | Shaft Fan | 48 | 76 | 94 | 95 | 97 | 125 | 127 | 128 | 169 | 170 | 172 | 208 | 210 | 212 | 374 | 378 | 381 | 392 | | |
| | Electric Fan | 62 | 100 | 112 | 141 | 143 | 168 | 170 | 171 | 233 | 235 | 238 | 317 | 321 | 324 | 507 | 512 | 517 | 531 | | |
| | DuraPlate | 82 | 113 | 150 | 176 | 180 | 227 | 229 | 232 | 427 | 431 | 436 | 539 | 543 | 547 | 826 | 834 | 843 | 865 | | |
| 31,5 | None | 36 | 53 | 62 | 69 | 70 | 83 | 84 | 85 | 102 | 103 | 104 | 130 | 130 | 131 | 207 | 209 | 211 | 207 | | |
| | Shaft Fan | 47 | 73 | 94 | 95 | 97 | 124 | 125 | 126 | 165 | 166 | 168 | 205 | 207 | 209 | 378 | 382 | 386 | 381 | | |
| | Electric Fan | 60 | 96 | 112 | 140 | 143 | 166 | 167 | 169 | 227 | 230 | 232 | 313 | 316 | 319 | 511 | 516 | 521 | 516 | | |
| | DuraPlate | 80 | 108 | 149 | 175 | 179 | 224 | 226 | 229 | 416 | 420 | 425 | 533 | 537 | 541 | 829 | 838 | 846 | 842 | | |
| 35,5 | None | 37 | 53 | 61 | 67 | 68 | 79 | 80 | 81 | 99 | 100 | 101 | 133 | 134 | 135 | 186 | 188 | 190 | 208 | | |
| | Shaft Fan | 47 | 73 | 92 | 92 | 94 | 118 | 119 | 120 | 160 | 162 | 164 | 212 | 214 | 216 | 348 | 352 | 355 | 382 | | |
| | Electric Fan | 61 | 96 | 110 | 136 | 139 | 158 | 160 | 161 | 221 | 223 | 226 | 323 | 326 | 329 | 475 | 480 | 484 | 516 | | |
| | DuraPlate | 80 | 109 | 146 | 171 | 174 | 214 | 216 | 218 | 405 | 409 | 413 | 504 | 508 | 512 | 778 | 786 | 794 | 839 | | |
| 40,0 | None | 34 | 49 | 57 | 62 | 64 | 74 | 75 | 75 | 98 | 98 | 99 | 118 | 119 | 121 | 175 | 177 | 179 | 184 | | |
| | Shaft Fan | 44 | 68 | 86 | 86 | 88 | 111 | 112 | 113 | 157 | 158 | 160 | 190 | 192 | 193 | 330 | 333 | 336 | 346 | | |
| | Electric Fan | 57 | 90 | 103 | 127 | 130 | 149 | 150 | 151 | 216 | 218 | 221 | 290 | 293 | 295 | 451 | 455 | 460 | 473 | | |
| | DuraPlate | 75 | 101 | 137 | 160 | 163 | 202 | 204 | 206 | 395 | 399 | 403 | 504 | 508 | 512 | 742 | 749 | 757 | 778 | | |
| 45,0 | None | 33 | 47 | 57 | 62 | 64 | 73 | 74 | 74 | 95 | 96 | 97 | 116 | 118 | 119 | 178 | 180 | 182 | 178 | | |
| | Shaft Fan | 43 | 65 | 86 | 86 | 88 | 109 | 110 | 111 | 153 | 154 | 156 | 187 | 189 | 191 | 334 | 337 | 341 | 336 | | |
| | Electric Fan | 55 | 86 | 103 | 127 | 130 | 146 | 148 | 149 | 211 | 213 | 215 | 286 | 289 | 291 | 455 | 460 | 464 | 459 | | |
| | DuraPlate | 73 | 97 | 137 | 159 | 162 | 199 | 201 | 203 | 384 | 388 | 392 | 504 | 508 | 512 | 746 | 753 | 760 | 756 | | |
| 50,0 | None | 34 | 48 | 55 | 61 | 62 | 69 | 70 | 71 | 92 | 93 | 94 | 122 | 123 | 124 | 175 | 176 | 178 | 179 | | |
| | Shaft Fan | 43 | 66 | 84 | 84 | 85 | 104 | 105 | 106 | 148 | 150 | 151 | 194 | 196 | 198 | 325 | 328 | 332 | 336 | | |
| | Electric Fan | 56 | 86 | 100 | 124 | 126 | 140 | 141 | 142 | 204 | 206 | 208 | 295 | 298 | 301 | 442 | 446 | 451 | 459 | | |
| | DuraPlate | 74 | 97 | 133 | 155 | 158 | 190 | 192 | 193 | 372 | 376 | 380 | 484 | 488 | 492 | 721 | 728 | 735 | 754 | | |
| 56,0 | None | 33 | 47 | 55 | 58 | 59 | 70 | 70 | 71 | 92 | 93 | 94 | 117 | 118 | 119 | 164 | 166 | 167 | 173 | | |
| | Shaft Fan | 42 | 66 | 82 | 80 | 82 | 104 | 105 | 106 | 147 | 148 | 150 | 184 | 186 | 188 | 307 | 310 | 313 | 323 | | |
| | Electric Fan | 55 | 87 | 98 | 118 | 121 | 139 | 140 | 142 | 201 | 203 | 205 | 277 | 280 | 283 | 418 | 422 | 427 | 439 | | |
| | DuraPlate | 72 | 99 | 131 | 148 | 150 | 188 | 190 | 192 | 360 | 364 | 367 | 464 | 468 | 472 | 686 | 692 | 699 | 720 | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|------------|---------------|----------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 900 | 63,0 | None | 32 | 45 | 54 | 58 | 59 | 69 | 69 | 70 | 90 | 90 | 91 | 115 | 116 | 117 | 167 | 168 | 170 | 166 |
| | | Shaft Fan | 41 | 63 | 81 | 80 | 81 | 102 | 103 | 104 | 143 | 144 | 146 | 181 | 183 | 185 | 311 | 314 | 317 | 312 |
| | | Electric Fan | 53 | 84 | 96 | 117 | 119 | 137 | 138 | 140 | 196 | 198 | 199 | 273 | 276 | 278 | 423 | 427 | 431 | 426 |
| | | DuraPlate | 70 | 95 | 127 | 145 | 148 | 186 | 188 | 189 | 351 | 354 | 358 | 339 | 343 | 346 | 690 | 696 | 703 | 698 |
| | 71,0 | None | 32 | 46 | 52 | 57 | 58 | 65 | 66 | 66 | 87 | 88 | 89 | 120 | 121 | 123 | 142 | 144 | 145 | 168 |
| | | Shaft Fan | 41 | 64 | 78 | 77 | 79 | 97 | 98 | 99 | 139 | 140 | 142 | 189 | 191 | 193 | 260 | 262 | 265 | 313 |
| | | Electric Fan | 53 | 84 | 93 | 113 | 116 | 130 | 132 | 133 | 190 | 192 | 194 | 282 | 285 | 288 | 352 | 355 | 359 | 426 |
| | | DuraPlate | 71 | 95 | 123 | 141 | 144 | 176 | 178 | 180 | 340 | 344 | 347 | 350 | 353 | 357 | 430 | 435 | 439 | 697 |
| | 80,0 | None | 28 | 35 | 45 | 47 | 48 | 56 | 57 | 57 | 75 | 76 | 76 | 94 | 95 | 95 | 145 | 146 | 147 | 145 |
| | | Shaft Fan | 35 | 49 | 68 | 65 | 66 | 84 | 85 | 86 | 119 | 120 | 122 | 148 | 149 | 151 | 263 | 266 | 268 | 264 |
| | | Electric Fan | 46 | 65 | 82 | 96 | 98 | 113 | 114 | 115 | 164 | 166 | 167 | 225 | 227 | 229 | 355 | 359 | 363 | 358 |
| | | DuraPlate | 53 | 65 | 83 | 92 | 94 | 122 | 123 | 124 | 211 | 214 | 216 | 263 | 265 | 268 | 434 | 438 | 443 | 438 |
| | 90,0 | None | 28 | 36 | 44 | 46 | 47 | 54 | 54 | 55 | 73 | 73 | 74 | 98 | 99 | 100 | 141 | 142 | 144 | 145 |
| | | Shaft Fan | 36 | 50 | 67 | 63 | 64 | 80 | 81 | 82 | 116 | 117 | 118 | 154 | 155 | 157 | 256 | 258 | 261 | 265 |
| | | Electric Fan | 46 | 65 | 80 | 93 | 95 | 108 | 109 | 110 | 159 | 161 | 162 | 232 | 235 | 237 | 345 | 348 | 352 | 359 |
| | | DuraPlate | 54 | 66 | 81 | 89 | 91 | 116 | 117 | 118 | 205 | 207 | 210 | 271 | 274 | 277 | 421 | 425 | 429 | 438 |
| | 100 | None | 27 | 36 | 43 | 44 | 45 | 54 | 54 | 55 | 72 | 73 | 74 | 94 | 94 | 95 | 132 | 134 | 135 | 139 |
| | | Shaft Fan | 35 | 50 | 65 | 61 | 62 | 80 | 81 | 82 | 115 | 116 | 118 | 147 | 148 | 150 | 241 | 244 | 246 | 254 |
| | | Electric Fan | 45 | 66 | 78 | 90 | 91 | 107 | 108 | 109 | 158 | 160 | 161 | 221 | 223 | 226 | 326 | 330 | 333 | 343 |
| | | DuraPlate | 53 | 67 | 79 | 86 | 88 | 115 | 117 | 118 | 204 | 206 | 208 | 257 | 260 | 262 | 399 | 403 | 407 | 419 |
| | 112 | None | 26 | 34 | 43 | 44 | 45 | 53 | 53 | 54 | 70 | 71 | 72 | 92 | 93 | 94 | 135 | 136 | 137 | 134 |
| | | Shaft Fan | 34 | 48 | 65 | 60 | 62 | 79 | 80 | 80 | 112 | 113 | 114 | 144 | 146 | 147 | 245 | 247 | 249 | 245 |
| | | Electric Fan | 44 | 64 | 77 | 89 | 91 | 106 | 107 | 108 | 154 | 156 | 157 | 218 | 220 | 222 | 330 | 333 | 337 | 332 |
| | | DuraPlate | 51 | 64 | 78 | 86 | 87 | 114 | 115 | 116 | 198 | 200 | 202 | 253 | 256 | 258 | 403 | 407 | 411 | 406 |
| | 125 | None | 27 | 35 | 42 | 43 | 44 | 50 | 51 | 51 | 68 | 69 | 70 | 96 | 97 | 98 | | | | 135 |
| | | Shaft Fan | 34 | 48 | 63 | 59 | 60 | 75 | 76 | 76 | 109 | 110 | 111 | 151 | 152 | 154 | | | | 246 |
| | | Electric Fan | 44 | 64 | 75 | 87 | 89 | 100 | 101 | 102 | 150 | 151 | 153 | 226 | 228 | 230 | | | | 333 |
| | | DuraPlate | 51 | 64 | 76 | 83 | 85 | 108 | 109 | 110 | 193 | 195 | 197 | 262 | 265 | 267 | | | | 406 |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|------------|---------------|----------------------|------------|------|------|------|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 900 | 8,00 | None | 268 | 271 | 273 | | | * | * | * | | | |
| | | Shaft Fan | 821 | 830 | 838 | | | 956 | 965 | 975 | | | |
| | | Electric Fan | 1137 | 1149 | 1160 | | | 1234 | 1246 | 1258 | | | |
| | | DuraPlate | 2765 | 2792 | 2820 | | | 3634 | 3670 | 3707 | | | |
| | 9,00 | None | 280 | 283 | 286 | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 827 | 835 | 844 | 774 | 790 | 973 | 983 | 992 | 842 | 850 | 859 |
| | | Electric Fan | 1136 | 1147 | 1159 | 1086 | 1108 | 1241 | 1254 | 1266 | 1117 | 1128 | 1139 |
| | | DuraPlate | 2716 | 2744 | 2771 | 2716 | 2770 | 3564 | 3600 | 3636 | 3523 | 3558 | 3593 |
| | 10,0 | None | 273 | 276 | 278 | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 802 | 810 | 818 | 797 | 813 | 961 | 970 | 980 | 883 | 892 | 901 |
| | | Electric Fan | 1103 | 1114 | 1125 | 1105 | 1127 | 1222 | 1234 | 1247 | 1149 | 1160 | 1172 |
| | | DuraPlate | 2647 | 2673 | 2700 | 2696 | 2750 | 3498 | 3533 | 3568 | 3473 | 3508 | 3543 |
| | 11,2 | None | 278 | 281 | 284 | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 783 | 791 | 799 | 776 | 792 | 1000 | 1010 | 1020 | 884 | 893 | 902 |
| | | Electric Fan | 1068 | 1079 | 1090 | 1076 | 1097 | 1260 | 1273 | 1286 | 1143 | 1154 | 1166 |
| | | DuraPlate | 2529 | 2554 | 2579 | 2629 | 2682 | 3517 | 3552 | 3587 | 3419 | 3453 | 3487 |
| | 12,5 | None | 287 | 290 | 293 | * | * | 303 | 307 | 310 | * | * | * |
| | | Shaft Fan | 742 | 749 | 757 | 765 | 780 | 1058 | 1069 | 1080 | 943 | 952 | 962 |
| | | Electric Fan | 997 | 1007 | 1017 | 1049 | 1070 | 1291 | 1304 | 1317 | 1201 | 1213 | 1225 |
| | | DuraPlate | 1953 | 1972 | 1992 | 2518 | 2568 | 2784 | 2812 | 2839 | 3455 | 3490 | 3524 |
| 14,0 | None | 290 | 292 | 295 | 276 | 282 | 298 | 301 | 304 | * | * | * | |
| | Shaft Fan | 737 | 745 | 752 | 725 | 740 | 1024 | 1035 | 1045 | 1024 | 1034 | 1044 | |
| | Electric Fan | 987 | 997 | 1006 | 979 | 998 | 1249 | 1261 | 1274 | 1255 | 1268 | 1280 | |
| | DuraPlate | 1917 | 1936 | 1956 | 1933 | 1972 | 2697 | 2724 | 2751 | 2745 | 2773 | 2800 | |
| 16,0 | None | 278 | 281 | 283 | 285 | 290 | 289 | 292 | 295 | * | * | * | |
| | Shaft Fan | 712 | 719 | 726 | 732 | 747 | 994 | 1004 | 1014 | 995 | 1005 | 1015 | |
| | Electric Fan | 955 | 964 | 974 | 982 | 1002 | 1213 | 1225 | 1237 | 1218 | 1230 | 1242 | |
| | DuraPlate | 1865 | 1884 | 1902 | 1916 | 1955 | 2632 | 2658 | 2685 | 2662 | 2689 | 2715 | |
| 18,0 | None | 267 | 270 | 273 | 274 | 279 | 305 | 308 | 311 | * | * | * | |
| | Shaft Fan | 674 | 681 | 687 | 708 | 722 | 976 | 985 | 995 | 968 | 978 | 988 | |
| | Electric Fan | 902 | 911 | 920 | 951 | 970 | 1181 | 1193 | 1204 | 1186 | 1198 | 1210 | |
| | DuraPlate | 1755 | 1773 | 1790 | 1865 | 1903 | 2500 | 2525 | 2550 | 2600 | 2626 | 2652 | |
| 20,0 | None | 268 | 270 | 273 | 259 | 264 | 293 | 296 | 299 | 293 | 296 | 299 | |
| | Shaft Fan | 668 | 675 | 681 | 661 | 674 | 936 | 946 | 955 | 957 | 966 | 976 | |
| | Electric Fan | 891 | 900 | 908 | 888 | 905 | 1134 | 1146 | 1157 | 1161 | 1172 | 1184 | |
| | DuraPlate | 1722 | 1739 | 1756 | 1740 | 1774 | 2412 | 2436 | 2460 | 2479 | 2504 | 2529 | |
| 22,4 | None | 256 | 259 | 261 | 265 | 270 | 281 | 284 | 287 | 282 | 285 | 288 | |
| | Shaft Fan | 644 | 650 | 657 | 666 | 679 | 906 | 915 | 924 | 918 | 928 | 937 | |
| | Electric Fan | 861 | 870 | 878 | 889 | 907 | 1099 | 1110 | 1121 | 1115 | 1126 | 1138 | |
| | DuraPlate | 1675 | 1691 | 1708 | 1723 | 1757 | 2352 | 2375 | 2399 | 2391 | 2415 | 2439 | |
| 25,0 | None | 255 | 257 | 260 | 254 | 259 | 288 | 291 | 294 | 272 | 275 | 278 | |
| | Shaft Fan | 600 | 606 | 612 | 642 | 655 | 882 | 891 | 900 | 889 | 898 | 907 | |
| | Electric Fan | 791 | 799 | 807 | 860 | 877 | 1064 | 1074 | 1085 | 1081 | 1092 | 1103 | |
| | DuraPlate | 1239 | 1251 | 1264 | 1676 | 1710 | 2225 | 2248 | 2270 | 2332 | 2355 | 2379 | |
| 28,0 | None | 255 | 257 | 260 | 249 | 254 | 318 | 321 | 324 | 280 | 283 | 286 | |
| | Shaft Fan | 594 | 600 | 606 | 590 | 602 | 864 | 873 | 882 | 868 | 877 | 885 | |
| | Electric Fan | 782 | 790 | 797 | 780 | 795 | 1029 | 1039 | 1050 | 1048 | 1058 | 1069 | |
| | DuraPlate | 1219 | 1232 | 1244 | 1226 | 1251 | 1703 | 1720 | 1737 | 2208 | 2230 | 2252 | |
| 31,5 | None | 244 | 246 | 249 | 253 | 258 | 305 | 308 | 311 | 310 | 313 | 316 | |
| | Shaft Fan | 574 | 579 | 585 | 593 | 605 | 837 | 845 | 853 | 851 | 860 | 868 | |
| | Electric Fan | 757 | 764 | 772 | 781 | 796 | 998 | 1008 | 1018 | 1015 | 1026 | 1036 | |
| | DuraPlate | 1185 | 1197 | 1209 | 1220 | 1244 | 1659 | 1675 | 1692 | 1687 | 1704 | 1721 | |
| 35,5 | None | 194 | 196 | 198 | 243 | 248 | 302 | 305 | 308 | 298 | 301 | 304 | |
| | Shaft Fan | 495 | 500 | 505 | 573 | 584 | 811 | 820 | 828 | 825 | 833 | 841 | |
| | Electric Fan | 663 | 670 | 676 | 756 | 771 | 965 | 975 | 984 | 985 | 995 | 1005 | |
| | DuraPlate | 1058 | 1069 | 1080 | 1186 | 1210 | 1592 | 1608 | 1624 | 1644 | 1661 | 1677 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|---------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 900 | 40,0 | None | 194 | 196 | 198 | 189 | 193 | 286 | 289 | 292 | 295 | 298 | 301 |
| | | Shaft Fan | 490 | 495 | 500 | 486 | 496 | 776 | 784 | 792 | 801 | 809 | 817 |
| | | Electric Fan | 656 | 662 | 669 | 654 | 667 | 925 | 934 | 943 | 954 | 963 | 973 |
| | | DuraPlate | 1042 | 1052 | 1062 | 1047 | 1068 | 1532 | 1548 | 1563 | 1580 | 1596 | 1611 |
| | 45,0 | None | 185 | 187 | 189 | 193 | 197 | 274 | 277 | 280 | 280 | 283 | 286 |
| | | Shaft Fan | 473 | 477 | 482 | 489 | 499 | 750 | 757 | 765 | 765 | 773 | 780 |
| | | Electric Fan | 634 | 640 | 647 | 655 | 668 | 895 | 904 | 913 | 912 | 922 | 931 |
| | | DuraPlate | 1012 | 1022 | 1032 | 1042 | 1063 | 1491 | 1506 | 1521 | 1519 | 1534 | 1549 |
| | 50,0 | None | 181 | 183 | 185 | 184 | 188 | 216 | 218 | 220 | 268 | 271 | 274 |
| | | Shaft Fan | 469 | 474 | 478 | 472 | 482 | 696 | 703 | 710 | 739 | 747 | 754 |
| | | Electric Fan | 634 | 641 | 647 | 633 | 646 | 847 | 856 | 864 | 883 | 892 | 901 |
| | | DuraPlate | 1030 | 1040 | 1051 | 1013 | 1033 | 1485 | 1499 | 1514 | 1478 | 1492 | 1507 |
| 56,0 | None | 181 | 183 | 185 | 176 | 180 | 211 | 213 | 215 | 210 | 212 | 215 | |
| | Shaft Fan | 464 | 469 | 473 | 460 | 470 | 682 | 689 | 696 | 684 | 691 | 698 | |
| | Electric Fan | 625 | 631 | 638 | 624 | 637 | 831 | 840 | 848 | 834 | 843 | 851 | |
| | DuraPlate | 1009 | 1019 | 1029 | 1018 | 1039 | 1459 | 1474 | 1489 | 1469 | 1484 | 1499 | |
| 63,0 | None | 172 | 174 | 176 | 180 | 184 | 201 | 203 | 205 | 206 | 208 | 210 | |
| | Shaft Fan | 446 | 450 | 455 | 463 | 472 | 656 | 663 | 669 | 671 | 678 | 684 | |
| | Electric Fan | 602 | 608 | 614 | 624 | 637 | 801 | 809 | 817 | 819 | 827 | 835 | |
| | DuraPlate | 977 | 987 | 997 | 1009 | 1030 | 1413 | 1427 | 1441 | 1444 | 1459 | 1473 | |
| 71,0 | None | 169 | 171 | 173 | 172 | 176 | 229 | 232 | 234 | 196 | 198 | 200 | |
| | Shaft Fan | 375 | 379 | 383 | 446 | 455 | 582 | 588 | 594 | 645 | 652 | 658 | |
| | Electric Fan | 490 | 495 | 500 | 603 | 615 | 689 | 696 | 703 | 789 | 797 | 805 | |
| | DuraPlate | 799 | 807 | 815 | 979 | 998 | 1191 | 1203 | 1214 | 1399 | 1413 | 1427 | |
| 80,0 | None | 162 | 164 | 166 | 169 | 172 | 220 | 222 | 224 | 225 | 227 | 229 | |
| | Shaft Fan | 363 | 367 | 370 | 375 | 382 | 564 | 569 | 575 | 574 | 580 | 586 | |
| | Electric Fan | 475 | 480 | 485 | 489 | 499 | 668 | 675 | 682 | 681 | 687 | 694 | |
| | DuraPlate | 778 | 786 | 794 | 799 | 815 | 1160 | 1172 | 1184 | 1180 | 1192 | 1204 | |
| 90,0 | None | 159 | 160 | 162 | 162 | 165 | 225 | 227 | 229 | 216 | 218 | 220 | |
| | Shaft Fan | 362 | 366 | 369 | 363 | 370 | 584 | 590 | 596 | 556 | 561 | 567 | |
| | Electric Fan | 478 | 483 | 488 | 475 | 484 | 696 | 703 | 710 | 660 | 667 | 673 | |
| | DuraPlate | 799 | 807 | 815 | 785 | 801 | 1233 | 1245 | 1258 | 1150 | 1162 | 1173 | |
| 100 | None | 158 | 160 | 162 | 155 | 158 | 220 | 222 | 224 | 220 | 222 | 225 | |
| | Shaft Fan | 359 | 362 | 366 | 356 | 363 | 573 | 579 | 585 | 575 | 581 | 587 | |
| | Electric Fan | 473 | 477 | 482 | 471 | 480 | 683 | 690 | 697 | 686 | 693 | 700 | |
| | DuraPlate | 786 | 794 | 802 | 791 | 806 | 1213 | 1225 | 1237 | 1221 | 1233 | 1245 | |
| 112 | None | 152 | 153 | 155 | 158 | 161 | 210 | 212 | 215 | 215 | 217 | 220 | |
| | Shaft Fan | 346 | 349 | 353 | 358 | 365 | 552 | 558 | 563 | 564 | 570 | 576 | |
| | Electric Fan | 457 | 461 | 466 | 472 | 482 | 660 | 666 | 673 | 674 | 680 | 687 | |
| | DuraPlate | 763 | 771 | 778 | 786 | 802 | 1177 | 1189 | 1201 | 1201 | 1213 | 1225 | |
| 125 | None | | | | 151 | 154 | | | | 206 | 208 | 210 | |
| | Shaft Fan | | | | 345 | 352 | | | | 544 | 549 | 555 | |
| | Electric Fan | | | | 457 | 466 | | | | 650 | 657 | 663 | |
| | DuraPlate | | | | 764 | 779 | | | | 1166 | 1177 | 1189 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | | |
|-----------|--------------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|-----|---|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 | |
| 1800 | 12,5 | None | | | | | | | | | | | | | | | * | * | * | | |
| | | Shaft Fan | | | | | | | | | | | | | | | | 358 | 362 | 365 | |
| | | Electric Fan | | | | | | | | | | | | | | | | 232 | 234 | 237 | |
| | DuraPlate | | | | | | | | | | | | | | | | 1494 | 1509 | 1523 | | |
| | 14,0 | None | 45 | 64 | 67 | 65 | 66 | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 99 | 156 | 197 | 176 | 180 | 206 | 208 | 210 | 270 | 273 | 275 | 251 | 254 | 256 | 356 | 360 | 363 | 315 | |
| | | Electric Fan | 79 | 127 | 140 | 162 | 166 | 163 | 164 | 166 | 212 | 214 | 216 | 226 | 228 | 230 | 234 | 236 | 239 | 197 | |
| | DuraPlate | 185 | 259 | 364 | 410 | 418 | 607 | 613 | 619 | 961 | 971 | 980 | 995 | 1005 | 1015 | 1456 | 1471 | 1485 | 1413 | | |
| | 16,0 | None | 44 | 62 | 68 | 66 | 67 | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| | | Shaft Fan | 97 | 151 | 198 | 177 | 180 | 205 | 207 | 209 | 269 | 272 | 275 | 252 | 255 | 257 | 373 | 377 | 380 | 321 | |
| | | Electric Fan | 77 | 123 | 141 | 163 | 167 | 162 | 164 | 165 | 212 | 214 | 217 | 227 | 229 | 232 | 249 | 252 | 254 | 205 | |
| | DuraPlate | 180 | 251 | 363 | 409 | 417 | 602 | 608 | 614 | 943 | 953 | 962 | 990 | 999 | 1009 | 1470 | 1485 | 1500 | 1398 | | |
| | 18,0 | None | 44 | 63 | 67 | 65 | 66 | * | * | * | * | * | * | * | * | * | * | * | * | * | |
| | | Shaft Fan | 98 | 151 | 193 | 173 | 177 | 199 | 201 | 203 | 266 | 268 | 271 | 269 | 272 | 275 | 408 | 412 | 416 | 339 | |
| | | Electric Fan | 78 | 123 | 138 | 160 | 163 | 158 | 160 | 161 | 210 | 212 | 214 | 244 | 246 | 249 | 288 | 290 | 293 | 222 | |
| | DuraPlate | 181 | 249 | 354 | 399 | 407 | 581 | 586 | 592 | 921 | 931 | 940 | 1013 | 1024 | 1034 | 1469 | 1484 | 1498 | 1410 | | |
| | 20,0 | None | 41 | 57 | 62 | 63 | 65 | 60 | 60 | 61 | * | * | * | * | * | * | * | * | * | * | |
| | | Shaft Fan | 91 | 140 | 180 | 166 | 170 | 199 | 201 | 203 | 261 | 262 | 263 | 267 | 269 | 272 | 394 | 398 | 402 | 376 | |
| | | Electric Fan | 72 | 114 | 128 | 154 | 157 | 159 | 160 | 162 | 205 | 207 | 209 | 243 | 246 | 248 | 278 | 281 | 284 | 261 | |
| | DuraPlate | 170 | 232 | 333 | 383 | 391 | 569 | 575 | 581 | 877 | 886 | 895 | 946 | 956 | 965 | 1419 | 1434 | 1448 | 1406 | | |
| 22,4 | None | 40 | 55 | 62 | 64 | 65 | 59 | 60 | 60 | * | * | * | * | * | * | * | * | * | * | | |
| | Shaft Fan | 88 | 135 | 180 | 166 | 169 | 197 | 199 | 201 | 253 | 256 | 258 | 265 | 267 | 270 | 403 | 407 | 411 | 371 | | |
| | Electric Fan | 70 | 110 | 128 | 154 | 157 | 157 | 159 | 160 | 202 | 204 | 206 | 242 | 244 | 246 | 286 | 289 | 292 | 259 | | |
| DuraPlate | 166 | 224 | 331 | 381 | 389 | 563 | 569 | 574 | 857 | 866 | 874 | 939 | 948 | 957 | 1424 | 1438 | 1453 | 1379 | | | |
| 25,0 | None | 40 | 56 | 61 | 62 | 64 | 57 | 58 | 58 | * | * | * | * | * | * | * | * | * | * | | |
| | Shaft Fan | 89 | 135 | 176 | 162 | 165 | 189 | 191 | 193 | 248 | 250 | 253 | 276 | 279 | 281 | 502 | 507 | 512 | 378 | | |
| | Electric Fan | 71 | 110 | 125 | 150 | 153 | 151 | 153 | 154 | 198 | 200 | 202 | 252 | 255 | 257 | 392 | 396 | 400 | 266 | | |
| DuraPlate | 167 | 223 | 323 | 371 | 378 | 540 | 545 | 551 | 835 | 843 | 851 | 955 | 965 | 974 | 1510 | 1526 | 1541 | 1378 | | | |
| 28,0 | None | 33 | 48 | 56 | 60 | 61 | 68 | 68 | 69 | 76 | 77 | 78 | * | * | * | * | * | * | * | | |
| | Shaft Fan | 75 | 119 | 152 | 148 | 151 | 191 | 193 | 195 | 256 | 258 | 261 | 281 | 283 | 286 | 482 | 486 | 491 | 500 | | |
| | Electric Fan | 59 | 96 | 110 | 138 | 140 | 156 | 158 | 160 | 211 | 213 | 215 | 261 | 263 | 266 | 376 | 380 | 384 | 390 | | |
| DuraPlate | 137 | 192 | 276 | 332 | 338 | 420 | 424 | 428 | 834 | 842 | 850 | 717 | 724 | 731 | 1458 | 1472 | 1487 | 1518 | | | |
| 31,5 | None | 32 | 46 | 56 | 60 | 62 | 67 | 68 | 68 | 75 | 76 | 77 | * | * | * | * | * | * | * | | |
| | Shaft Fan | 73 | 115 | 152 | 148 | 151 | 189 | 191 | 193 | 250 | 253 | 255 | 278 | 280 | 283 | 487 | 492 | 497 | 488 | | |
| | Electric Fan | 58 | 93 | 110 | 137 | 140 | 155 | 156 | 158 | 206 | 208 | 210 | 261 | 262 | 263 | 382 | 385 | 389 | 381 | | |
| DuraPlate | 133 | 185 | 275 | 330 | 336 | 415 | 419 | 423 | 813 | 822 | 830 | 710 | 717 | 724 | 1458 | 1473 | 1487 | 1485 | | | |
| 35,5 | None | 32 | 47 | 54 | 59 | 60 | 64 | 65 | 65 | 73 | 74 | 75 | 74 | 75 | 76 | * | * | * | * | | |
| | Shaft Fan | 74 | 115 | 149 | 144 | 147 | 182 | 183 | 185 | 244 | 247 | 249 | 287 | 290 | 292 | 482 | 487 | 491 | 491 | | |
| | Electric Fan | 58 | 93 | 107 | 134 | 137 | 148 | 150 | 151 | 201 | 203 | 205 | 266 | 269 | 272 | 380 | 384 | 388 | 384 | | |
| DuraPlate | 134 | 185 | 268 | 321 | 328 | 398 | 402 | 406 | 792 | 800 | 808 | 723 | 730 | 737 | 1414 | 1428 | 1442 | 1477 | | | |
| 40,0 | None | 30 | 44 | 48 | 56 | 57 | 61 | 62 | 62 | 74 | 75 | 76 | 71 | 71 | 72 | 87 | 88 | 89 | * | | |
| | Shaft Fan | 70 | 109 | 137 | 136 | 139 | 173 | 174 | 176 | 242 | 244 | 247 | 264 | 267 | 270 | 460 | 465 | 469 | 481 | | |
| | Electric Fan | 55 | 88 | 97 | 127 | 129 | 141 | 142 | 144 | 200 | 202 | 204 | 246 | 248 | 251 | 362 | 366 | 369 | 378 | | |
| DuraPlate | 127 | 175 | 251 | 304 | 310 | 380 | 384 | 387 | 775 | 782 | 790 | 665 | 672 | 678 | 1361 | 1374 | 1388 | 1421 | | | |
| 45,0 | None | 29 | 42 | 48 | 56 | 57 | 60 | 61 | 62 | 73 | 73 | 74 | 70 | 70 | 71 | 89 | 90 | 91 | * | | |
| | Shaft Fan | 68 | 104 | 137 | 136 | 139 | 171 | 172 | 174 | 236 | 238 | 241 | 261 | 264 | 267 | 465 | 469 | 474 | 468 | | |
| | Electric Fan | 53 | 84 | 97 | 126 | 129 | 139 | 141 | 142 | 195 | 197 | 199 | 243 | 245 | 248 | 367 | 370 | 374 | 368 | | |
| DuraPlate | 123 | 168 | 250 | 302 | 308 | 375 | 379 | 383 | 754 | 762 | 769 | 658 | 665 | 671 | 1360 | 1374 | 1387 | 1387 | | | |
| 50,0 | None | 30 | 43 | 47 | 54 | 55 | 58 | 58 | 59 | 71 | 72 | 72 | 73 | 74 | 75 | 96 | 97 | 98 | 90 | | |
| | Shaft Fan | 68 | 105 | 133 | 132 | 135 | 163 | 165 | 167 | 229 | 232 | 234 | 270 | 272 | 275 | 461 | 466 | 471 | 469 | | |
| | Electric Fan | 54 | 85 | 95 | 123 | 125 | 133 | 135 | 136 | 190 | 192 | 194 | 251 | 253 | 256 | 367 | 370 | 374 | 370 | | |
| DuraPlate | 124 | 168 | 243 | 294 | 300 | 360 | 363 | 367 | 731 | 739 | 746 | 670 | 677 | 684 | 1321 | 1334 | 1347 | 1379 | | | |
| 56,0 | None | 30 | 42 | 47 | 46 | 47 | 45 | 45 | 45 | 42 | 43 | 43 | 75 | 75 | 76 | 90 | 91 | 92 | 95 | | |
| | Shaft Fan | 67 | 105 | 131 | 120 | 123 | 146 | 147 | 149 | 191 | 193 | 195 | 263 | 265 | 268 | 439 | 443 | 448 | 460 | | |
| | Electric Fan | 53 | 84 | 94 | 111 | 113 | 117 | 118 | 119 | 153 | 155 | 156 | 245 | 248 | 250 | 348 | 352 | 355 | 365 | | |
| DuraPlate | 123 | 172 | 239 | 275 | 281 | 336 | 339 | 342 | 663 | 670 | 676 | 628 | 634 | 640 | 1269 | 1282 | 1294 | 1327 | | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|------------|---------------|----------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1800 | 63,0 | None | 28 | 40 | 46 | 46 | 47 | 44 | 44 | 45 | 41 | 42 | 42 | 73 | 74 | 75 | 92 | 93 | 94 | 91 |
| | | Shaft Fan | 65 | 101 | 129 | 120 | 122 | 144 | 145 | 147 | 186 | 188 | 190 | 259 | 262 | 264 | 443 | 448 | 452 | 447 |
| | | Electric Fan | 51 | 81 | 93 | 111 | 113 | 115 | 116 | 118 | 149 | 151 | 152 | 242 | 244 | 247 | 352 | 356 | 359 | 354 |
| | | DuraPlate | 119 | 166 | 231 | 267 | 272 | 332 | 335 | 338 | 647 | 653 | 660 | 621 | 627 | 633 | 1269 | 1282 | 1294 | 1294 |
| | 71,0 | None | 29 | 40 | 45 | 45 | 46 | 42 | 42 | 43 | 40 | 41 | 41 | 77 | 78 | 79 | 94 | 95 | 96 | 92 |
| | | Shaft Fan | 66 | 101 | 126 | 116 | 119 | 137 | 138 | 140 | 181 | 183 | 185 | 268 | 271 | 273 | 383 | 387 | 391 | 448 |
| | | Electric Fan | 52 | 82 | 91 | 108 | 110 | 110 | 111 | 112 | 145 | 146 | 148 | 250 | 253 | 255 | 308 | 311 | 314 | 355 |
| | | DuraPlate | 120 | 165 | 225 | 260 | 265 | 317 | 320 | 323 | 628 | 635 | 641 | 649 | 655 | 662 | 762 | 770 | 777 | 1286 |
| | 80,0 | None | 27 | 35 | 44 | 45 | 46 | 51 | 52 | 52 | 64 | 65 | 65 | 65 | 66 | 67 | 96 | 96 | 97 | 95 |
| | | Shaft Fan | 59 | 84 | 117 | 106 | 108 | 137 | 139 | 140 | 192 | 194 | 196 | 217 | 219 | 221 | 387 | 391 | 395 | 390 |
| | | Electric Fan | 47 | 68 | 85 | 98 | 100 | 113 | 114 | 115 | 160 | 161 | 163 | 202 | 204 | 206 | 312 | 315 | 318 | 314 |
| | | DuraPlate | 90 | 115 | 151 | 170 | 173 | 225 | 227 | 230 | 403 | 407 | 411 | 481 | 486 | 490 | 765 | 773 | 780 | 777 |
| | 90,0 | None | 27 | 36 | 43 | 44 | 45 | 49 | 49 | 50 | 62 | 63 | 64 | 68 | 69 | 70 | 96 | 97 | 98 | 96 |
| | | Shaft Fan | 60 | 84 | 114 | 103 | 105 | 131 | 133 | 134 | 187 | 188 | 190 | 224 | 226 | 228 | 379 | 383 | 387 | 391 |
| | | Electric Fan | 48 | 68 | 83 | 96 | 98 | 108 | 109 | 110 | 156 | 157 | 159 | 209 | 211 | 213 | 306 | 309 | 312 | 315 |
| | | DuraPlate | 90 | 115 | 147 | 165 | 169 | 216 | 218 | 220 | 392 | 396 | 400 | 491 | 496 | 501 | 744 | 751 | 758 | 774 |
| | 100 | None | 27 | 35 | 42 | 42 | 43 | 49 | 50 | 50 | 63 | 64 | 64 | 67 | 68 | 68 | 90 | 91 | 92 | 95 |
| | | Shaft Fan | 59 | 85 | 112 | 100 | 102 | 131 | 132 | 134 | 186 | 188 | 190 | 216 | 218 | 220 | 361 | 365 | 368 | 378 |
| | | Electric Fan | 47 | 69 | 81 | 93 | 94 | 108 | 109 | 110 | 156 | 157 | 159 | 202 | 204 | 206 | 291 | 294 | 297 | 305 |
| | | DuraPlate | 89 | 118 | 144 | 160 | 163 | 214 | 216 | 218 | 390 | 394 | 398 | 468 | 473 | 478 | 712 | 719 | 726 | 745 |
| | 112 | None | 26 | 34 | 42 | 42 | 43 | 49 | 49 | 50 | 61 | 62 | 63 | 66 | 67 | 67 | 92 | 93 | 94 | 92 |
| | | Shaft Fan | 57 | 82 | 111 | 99 | 101 | 130 | 131 | 132 | 182 | 184 | 185 | 213 | 215 | 217 | 365 | 368 | 372 | 367 |
| | | Electric Fan | 45 | 66 | 80 | 92 | 94 | 107 | 108 | 109 | 152 | 153 | 155 | 199 | 201 | 203 | 294 | 297 | 300 | 296 |
| | | DuraPlate | 86 | 114 | 142 | 159 | 162 | 211 | 213 | 215 | 380 | 384 | 388 | 463 | 467 | 472 | 715 | 722 | 729 | 725 |
| 125 | None | 26 | 34 | 41 | 41 | 42 | 46 | 47 | 47 | 60 | 60 | 61 | 69 | 70 | 71 | | | | 93 | |
| | Shaft Fan | 58 | 82 | 108 | 97 | 99 | 123 | 125 | 126 | 177 | 178 | 180 | 220 | 222 | 225 | | | | 368 | |
| | Electric Fan | 46 | 66 | 78 | 90 | 92 | 102 | 103 | 104 | 148 | 149 | 151 | 206 | 208 | 210 | | | | 297 | |
| | DuraPlate | 87 | 113 | 138 | 154 | 158 | 202 | 204 | 206 | 369 | 373 | 377 | 473 | 478 | 483 | | | | 724 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|------------|---------------|----------------------|------------|------|------|------|------|------|------|------|------|------|-----|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1800 | 8,00 | None | * | * | * | | | * | * | * | | | |
| | | Shaft Fan | * | * | * | | | * | * | * | | | |
| | | Electric Fan | * | * | * | | | * | * | * | | | |
| | | DuraPlate | 3186 | 3218 | 3250 | | | * | * | * | | | |
| | 9,00 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * |
| | | Electric Fan | * | * | * | * | * | * | * | * | * | * | * |
| | | DuraPlate | 3304 | 3337 | 3370 | 2786 | 2841 | * | * | * | * | * | * |
| | 10,0 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * |
| | | Electric Fan | * | * | * | * | * | * | * | * | * | * | * |
| | | DuraPlate | 3297 | 3330 | 3363 | 3007 | 3067 | * | * | * | * | * | * |
| | 11,2 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * |
| | | Electric Fan | * | * | * | * | * | * | * | * | * | * | * |
| | | DuraPlate | 3387 | 3421 | 3454 | 3047 | 3108 | 1176 | 1188 | 1200 | * | * | * |
| | 12,5 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * |
| | | Electric Fan | * | * | * | * | * | * | * | * | * | * | * |
| | | DuraPlate | 2767 | 2795 | 2822 | 3253 | 3318 | 2202 | 2224 | 2246 | * | * | * |
| 14,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * | |
| | Electric Fan | * | * | * | * | * | * | * | * | * | * | * | |
| | DuraPlate | 2746 | 2774 | 2801 | 2680 | 2733 | 2302 | 2325 | 2348 | 1844 | 1862 | 1881 | |
| 16,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * | |
| | Electric Fan | * | * | * | * | * | * | * | * | * | * | * | |
| | DuraPlate | 2694 | 2721 | 2748 | 2694 | 2748 | 2317 | 2340 | 2363 | 2045 | 2066 | 2086 | |
| 18,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * | |
| | Electric Fan | * | * | * | * | * | * | * | * | * | * | * | |
| | DuraPlate | 2652 | 2678 | 2705 | 2651 | 2704 | 2654 | 2680 | 2707 | 2101 | 2122 | 2143 | |
| 20,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * | |
| | Electric Fan | * | * | * | * | * | * | * | * | * | * | * | |
| | DuraPlate | 2607 | 2633 | 2659 | 2613 | 2665 | 2614 | 2640 | 2667 | 2533 | 2558 | 2584 | |
| 22,4 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * | |
| | Electric Fan | * | * | * | * | * | * | * | * | * | * | * | |
| | DuraPlate | 2550 | 2575 | 2601 | 2593 | 2644 | 2573 | 2599 | 2625 | 2523 | 2548 | 2574 | |
| 25,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 495 | 500 | 505 | * | * | * | * | * | * | * | * | |
| | Electric Fan | 317 | 320 | 323 | * | * | * | * | * | * | * | * | |
| | DuraPlate | 2024 | 2045 | 2065 | 2538 | 2589 | 2663 | 2690 | 2716 | 2495 | 2520 | 2545 | |
| 28,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 495 | 500 | 505 | 592 | 604 | 518 | 523 | 528 | * | * | * | |
| | Electric Fan | 320 | 323 | 326 | 374 | 382 | * | * | * | * | * | * | |
| | DuraPlate | 1991 | 2011 | 2031 | 2003 | 2044 | 2419 | 2443 | 2467 | 2615 | 2641 | 2667 | |
| 31,5 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 480 | 484 | 489 | 602 | 614 | 506 | 511 | 516 | 486 | 491 | 496 | |
| | Electric Fan | 309 | 312 | 315 | 386 | 394 | * | * | * | * | * | * | |
| | DuraPlate | 1945 | 1964 | 1984 | 1987 | 2027 | 2370 | 2394 | 2418 | 2382 | 2406 | 2430 | |
| 35,5 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 468 | 473 | 478 | 585 | 597 | 598 | 604 | 610 | 479 | 484 | 489 | |
| | Electric Fan | 311 | 314 | 317 | 374 | 382 | * | * | * | * | * | * | |
| | DuraPlate | 1820 | 1838 | 1856 | 1943 | 1982 | 2368 | 2392 | 2415 | 2338 | 2361 | 2384 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | |
|---------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|------|------|---|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 | |
| 1800 | 40,0 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 465 | 470 | 475 | 566 | 578 | 575 | 581 | 587 | 580 | 585 | 591 | |
| | | Electric Fan | 311 | 314 | 317 | 374 | 381 | * | * | * | * | * | * | |
| | | DuraPlate | 1786 | 1804 | 1822 | 1806 | 1842 | 2291 | 2313 | 2336 | 2347 | 2371 | 2394 | |
| | 45,0 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 450 | 454 | 459 | 571 | 583 | 556 | 562 | 567 | 559 | 565 | 571 | |
| | | Electric Fan | 299 | 302 | 305 | 380 | 388 | * | * | * | * | * | * | |
| | | DuraPlate | 1744 | 1762 | 1779 | 1786 | 1822 | 2238 | 2261 | 2283 | 2270 | 2293 | 2316 | |
| | 50,0 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 461 | 466 | 470 | 553 | 564 | 608 | 614 | 620 | 542 | 547 | 553 | |
| | | Electric Fan | 310 | 313 | 316 | 367 | 374 | 210 | 212 | 214 | * | * | * | |
| | | DuraPlate | 1803 | 1821 | 1839 | 1745 | 1780 | 2372 | 2396 | 2419 | 2219 | 2242 | 2264 | |
| 56,0 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 456 | 460 | 465 | 559 | 570 | 604 | 610 | 616 | 595 | 601 | 607 | | |
| | Electric Fan | 308 | 311 | 314 | 374 | 382 | 212 | 214 | 216 | 202 | 204 | 206 | | |
| | DuraPlate | 1759 | 1776 | 1794 | 1790 | 1826 | 2344 | 2367 | 2391 | 2353 | 2376 | 2400 | | |
| 63,0 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 439 | 444 | 448 | 561 | 572 | 581 | 587 | 593 | 591 | 597 | 603 | | |
| | Electric Fan | 296 | 299 | 302 | 379 | 386 | 203 | 205 | 207 | 205 | 207 | 209 | | |
| | DuraPlate | 1713 | 1731 | 1748 | 1761 | 1797 | 2282 | 2305 | 2328 | 2326 | 2349 | 2372 | | |
| 71,0 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 491 | 496 | 501 | 543 | 554 | 934 | 943 | 953 | 600 | 606 | 612 | | |
| | Electric Fan | 387 | 391 | 395 | 366 | 373 | 622 | 628 | 634 | 222 | 224 | 226 | | |
| | DuraPlate | 1501 | 1516 | 1531 | 1718 | 1752 | 2269 | 2292 | 2314 | 2296 | 2319 | 2342 | | |
| 80,0 | None | 92 | 93 | 94 | 117 | 120 | 110 | 111 | 112 | * | * | * | | |
| | Shaft Fan | 477 | 482 | 487 | 605 | 617 | 908 | 917 | 926 | 923 | 932 | 942 | | |
| | Electric Fan | 376 | 379 | 383 | 477 | 486 | 602 | 608 | 615 | 613 | 619 | 625 | | |
| | DuraPlate | 1471 | 1486 | 1501 | 1503 | 1533 | 2224 | 2246 | 2269 | 2257 | 2280 | 2302 | | |
| 90,0 | None | * | * | * | 113 | 115 | 116 | 117 | 118 | * | * | * | | |
| | Shaft Fan | 407 | 411 | 415 | 589 | 601 | 944 | 953 | 963 | 898 | 907 | 916 | | |
| | Electric Fan | 302 | 305 | 308 | 463 | 472 | 622 | 628 | 635 | 594 | 600 | 606 | | |
| | DuraPlate | 1446 | 1460 | 1475 | 1473 | 1502 | 2382 | 2406 | 2430 | 2213 | 2235 | 2257 | | |
| 100 | None | * | * | * | * | * | * | * | * | 113 | 114 | 115 | | |
| | Shaft Fan | 403 | 407 | 411 | 495 | 505 | 686 | 693 | 700 | 932 | 942 | 951 | | |
| | Electric Fan | 300 | 303 | 306 | 367 | 374 | 378 | 381 | 385 | 613 | 619 | 625 | | |
| | DuraPlate | 1416 | 1430 | 1444 | 1436 | 1465 | 2116 | 2137 | 2158 | 2369 | 2393 | 2417 | | |
| 112 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 390 | 394 | 398 | 496 | 506 | 663 | 670 | 677 | 676 | 683 | 690 | | |
| | Electric Fan | 290 | 293 | 295 | 369 | 377 | 363 | 367 | 370 | 370 | 374 | 378 | | |
| | DuraPlate | 1383 | 1397 | 1411 | 1418 | 1446 | 2065 | 2086 | 2106 | 2103 | 2124 | 2145 | | |
| 125 | None | | | | * | * | | | | * | * | * | | |
| | Shaft Fan | | | | 481 | 490 | | | | 654 | 661 | 667 | | |
| | Electric Fan | | | | 357 | 364 | | | | 356 | 360 | 364 | | |
| | DuraPlate | | | | 1385 | 1413 | | | | 2052 | 2073 | 2093 | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|------------|---------------|----------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|-----|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1500 | 12,5 | None | | | | | | | | | | | | | | * | * | * | | |
| | | Shaft Fan | | | | | | | | | | | | | | | 437 | 442 | 446 | |
| | | Electric Fan | | | | | | | | | | | | | | | 402 | 406 | 410 | |
| | DuraPlate | | | | | | | | | | | | | | | 1346 | 1359 | 1373 | | |
| | 14,0 | None | 44 | 64 | 70 | 71 | 73 | 73 | 73 | 74 | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 84 | 133 | 170 | 155 | 158 | 189 | 191 | 193 | 262 | 264 | 267 | 277 | 280 | 282 | 425 | 429 | 434 | 397 |
| | | Electric Fan | 77 | 124 | 140 | 165 | 169 | 178 | 180 | 181 | 250 | 253 | 255 | 305 | 308 | 311 | 392 | 396 | 399 | 364 |
| | DuraPlate | 151 | 214 | 300 | 338 | 345 | 505 | 510 | 515 | 806 | 814 | 822 | 866 | 875 | 883 | 1304 | 1317 | 1330 | 1276 | |
| | 16,0 | None | 43 | 62 | 71 | 72 | 73 | 72 | 73 | 74 | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 82 | 129 | 170 | 156 | 159 | 188 | 190 | 191 | 258 | 261 | 264 | 276 | 279 | 281 | 437 | 441 | 446 | 395 |
| | | Electric Fan | 75 | 120 | 141 | 166 | 169 | 177 | 178 | 180 | 248 | 250 | 253 | 304 | 307 | 310 | 403 | 407 | 411 | 363 |
| | DuraPlate | 147 | 207 | 299 | 337 | 344 | 500 | 505 | 510 | 788 | 796 | 804 | 859 | 868 | 876 | 1313 | 1326 | 1339 | 1256 | |
| | 18,0 | None | 44 | 62 | 69 | 71 | 72 | 70 | 71 | 72 | 81 | 82 | 83 | * | * | * | * | * | * | * |
| | | Shaft Fan | 83 | 129 | 166 | 152 | 155 | 181 | 183 | 185 | 254 | 256 | 259 | 290 | 293 | 295 | 443 | 448 | 452 | 406 |
| | | Electric Fan | 76 | 121 | 137 | 162 | 165 | 171 | 172 | 174 | 243 | 245 | 248 | 318 | 322 | 325 | 411 | 415 | 419 | 373 |
| | DuraPlate | 148 | 206 | 292 | 329 | 335 | 481 | 486 | 491 | 769 | 777 | 785 | 878 | 887 | 896 | 1286 | 1299 | 1312 | 1260 | |
| | 20,0 | None | 40 | 56 | 63 | 67 | 68 | 71 | 71 | 72 | 79 | 79 | 80 | * | * | * | * | * | * | * |
| | | Shaft Fan | 77 | 119 | 153 | 144 | 147 | 177 | 179 | 181 | 240 | 242 | 244 | 269 | 271 | 274 | 425 | 429 | 434 | 411 |
| | | Electric Fan | 70 | 110 | 127 | 154 | 157 | 167 | 169 | 171 | 230 | 232 | 234 | 294 | 297 | 300 | 394 | 398 | 402 | 380 |
| | DuraPlate | 139 | 191 | 272 | 313 | 320 | 468 | 473 | 478 | 725 | 732 | 739 | 803 | 811 | 819 | 1239 | 1251 | 1264 | 1229 | |
| 22,4 | None | 39 | 54 | 64 | 67 | 68 | 70 | 71 | 71 | 78 | 78 | 79 | * | * | * | * | * | * | * | |
| | Shaft Fan | 75 | 114 | 153 | 144 | 147 | 176 | 177 | 179 | 235 | 237 | 240 | 266 | 269 | 271 | 432 | 436 | 441 | 403 | |
| | Electric Fan | 68 | 106 | 127 | 153 | 156 | 165 | 167 | 169 | 225 | 227 | 230 | 291 | 294 | 297 | 401 | 405 | 409 | 373 | |
| DuraPlate | 135 | 184 | 271 | 312 | 318 | 463 | 467 | 472 | 708 | 715 | 722 | 795 | 803 | 811 | 1242 | 1255 | 1267 | 1203 | | |
| 25,0 | None | 39 | 55 | 62 | 66 | 67 | 67 | 68 | 68 | 76 | 77 | 78 | * | * | * | * | * | * | * | |
| | Shaft Fan | 75 | 115 | 149 | 140 | 143 | 168 | 170 | 172 | 229 | 232 | 234 | 276 | 279 | 282 | 464 | 469 | 474 | 407 | |
| | Electric Fan | 69 | 107 | 123 | 149 | 152 | 159 | 160 | 162 | 220 | 222 | 224 | 302 | 305 | 308 | 436 | 440 | 445 | 377 | |
| DuraPlate | 136 | 183 | 264 | 303 | 309 | 443 | 448 | 452 | 689 | 696 | 702 | 810 | 818 | 826 | 1265 | 1277 | 1290 | 1200 | | |
| 28,0 | None | 33 | 48 | 53 | 61 | 62 | 71 | 72 | 72 | 85 | 85 | 86 | 93 | 94 | 95 | 123 | 124 | 125 | 127 | |
| | Shaft Fan | 64 | 101 | 126 | 127 | 129 | 165 | 167 | 169 | 223 | 225 | 227 | 258 | 260 | 263 | 444 | 449 | 453 | 463 | |
| | Electric Fan | 58 | 94 | 104 | 135 | 137 | 156 | 158 | 160 | 215 | 217 | 219 | 280 | 283 | 285 | 417 | 421 | 425 | 434 | |
| DuraPlate | 112 | 159 | 222 | 270 | 275 | 345 | 348 | 352 | 676 | 683 | 690 | 599 | 605 | 611 | 1218 | 1230 | 1242 | 1270 | | |
| 31,5 | None | 32 | 46 | 53 | 61 | 62 | 70 | 71 | 71 | 83 | 84 | 84 | 92 | 93 | 94 | 126 | 127 | 128 | 124 | |
| | Shaft Fan | 62 | 98 | 126 | 126 | 129 | 163 | 165 | 167 | 218 | 220 | 222 | 255 | 257 | 260 | 449 | 454 | 458 | 451 | |
| | Electric Fan | 56 | 91 | 104 | 134 | 137 | 155 | 156 | 158 | 210 | 212 | 214 | 277 | 279 | 282 | 422 | 426 | 430 | 423 | |
| DuraPlate | 109 | 153 | 221 | 268 | 274 | 341 | 344 | 348 | 660 | 666 | 673 | 593 | 599 | 605 | 1219 | 1231 | 1243 | 1240 | | |
| 35,5 | None | 32 | 47 | 51 | 59 | 60 | 67 | 68 | 68 | 81 | 82 | 82 | 96 | 97 | 98 | 127 | 128 | 129 | 126 | |
| | Shaft Fan | 63 | 98 | 123 | 123 | 126 | 156 | 158 | 160 | 213 | 215 | 217 | 263 | 266 | 268 | 438 | 442 | 446 | 453 | |
| | Electric Fan | 57 | 91 | 102 | 131 | 134 | 148 | 149 | 151 | 205 | 207 | 209 | 285 | 288 | 291 | 411 | 415 | 420 | 425 | |
| DuraPlate | 110 | 153 | 216 | 261 | 267 | 327 | 330 | 333 | 642 | 649 | 655 | 605 | 611 | 617 | 1176 | 1188 | 1199 | 1235 | | |
| 40,0 | None | 30 | 44 | 49 | 51 | 52 | 54 | 54 | 55 | 81 | 81 | 82 | 88 | 89 | 90 | 120 | 121 | 122 | 125 | |
| | Shaft Fan | 59 | 92 | 116 | 111 | 113 | 137 | 138 | 139 | 209 | 212 | 214 | 240 | 242 | 244 | 417 | 421 | 425 | 436 | |
| | Electric Fan | 53 | 86 | 96 | 118 | 120 | 129 | 130 | 131 | 202 | 204 | 206 | 260 | 262 | 265 | 392 | 395 | 399 | 410 | |
| DuraPlate | 104 | 144 | 205 | 241 | 246 | 298 | 301 | 304 | 627 | 634 | 640 | 552 | 558 | 564 | 1129 | 1140 | 1152 | 1180 | | |
| 45,0 | None | 29 | 42 | 49 | 51 | 52 | 53 | 54 | 54 | 79 | 79 | 80 | 87 | 88 | 88 | 122 | 123 | 125 | 121 | |
| | Shaft Fan | 57 | 88 | 116 | 111 | 113 | 135 | 136 | 138 | 204 | 206 | 208 | 237 | 239 | 241 | 421 | 425 | 430 | 424 | |
| | Electric Fan | 52 | 82 | 96 | 118 | 120 | 127 | 128 | 130 | 197 | 199 | 201 | 257 | 259 | 262 | 396 | 400 | 404 | 398 | |
| DuraPlate | 101 | 138 | 204 | 240 | 245 | 294 | 297 | 300 | 611 | 617 | 623 | 546 | 552 | 557 | 1130 | 1141 | 1153 | 1151 | | |
| 50,0 | None | 30 | 42 | 48 | 50 | 51 | 51 | 51 | 52 | 76 | 77 | 78 | 91 | 92 | 93 | 124 | 126 | 127 | 123 | |
| | Shaft Fan | 58 | 89 | 113 | 108 | 110 | 129 | 130 | 132 | 198 | 200 | 202 | 245 | 247 | 249 | 415 | 419 | 423 | 425 | |
| | Electric Fan | 52 | 83 | 94 | 115 | 117 | 122 | 123 | 124 | 191 | 193 | 195 | 265 | 268 | 270 | 390 | 394 | 398 | 399 | |
| DuraPlate | 102 | 138 | 199 | 233 | 238 | 281 | 284 | 287 | 592 | 598 | 604 | 558 | 563 | 569 | 1095 | 1106 | 1117 | 1145 | | |
| 56,0 | None | 29 | 41 | 47 | 48 | 49 | 52 | 53 | 53 | 60 | 60 | 61 | 45 | 46 | 46 | 117 | 118 | 119 | 123 | |
| | Shaft Fan | 57 | 89 | 111 | 104 | 106 | 130 | 131 | 132 | 177 | 179 | 180 | 180 | 182 | 184 | 394 | 398 | 402 | 413 | |
| | Electric Fan | 52 | 82 | 93 | 111 | 113 | 122 | 124 | 125 | 170 | 171 | 173 | 199 | 201 | 202 | 370 | 374 | 378 | 389 | |
| DuraPlate | 100 | 141 | 195 | 224 | 228 | 279 | 282 | 285 | 548 | 554 | 559 | 462 | 466 | 471 | 1050 | 1060 | 1071 | 1099 | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|---------|------------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1500 | 63,0 | None | 28 | 40 | 47 | 49 | 50 | 51 | 52 | 52 | 58 | 59 | 59 | 44 | 45 | 45 | 119 | 120 | 121 | 119 |
| | | Shaft Fan | 55 | 86 | 110 | 104 | 106 | 128 | 129 | 131 | 172 | 174 | 176 | 177 | 179 | 181 | 398 | 402 | 406 | 401 |
| | | Electric Fan | 50 | 79 | 91 | 110 | 112 | 121 | 122 | 123 | 165 | 167 | 169 | 196 | 198 | 200 | 374 | 378 | 382 | 377 |
| | | DuraPlate | 97 | 136 | 189 | 219 | 223 | 276 | 278 | 281 | 534 | 540 | 545 | 456 | 461 | 465 | 1051 | 1062 | 1072 | 1070 |
| | 71,0 | None | 28 | 40 | 45 | 47 | 48 | 49 | 49 | 50 | 56 | 57 | 58 | 47 | 47 | 48 | 108 | 109 | 111 | 120 |
| | | Shaft Fan | 56 | 86 | 107 | 101 | 103 | 122 | 123 | 124 | 167 | 169 | 171 | 184 | 186 | 188 | 336 | 340 | 343 | 402 |
| | | Electric Fan | 51 | 80 | 89 | 107 | 109 | 115 | 116 | 117 | 161 | 162 | 164 | 203 | 205 | 207 | 317 | 320 | 323 | 378 |
| | | DuraPlate | 98 | 135 | 184 | 213 | 217 | 263 | 265 | 268 | 519 | 524 | 529 | 467 | 472 | 476 | 634 | 641 | 647 | 1065 |
| | 80,0 | None | 26 | 33 | 42 | 43 | 44 | 51 | 51 | 52 | 65 | 66 | 67 | 74 | 74 | 75 | 112 | 113 | 113 | 110 |
| | | Shaft Fan | 49 | 69 | 97 | 89 | 91 | 116 | 117 | 118 | 163 | 164 | 166 | 191 | 192 | 194 | 340 | 343 | 347 | 343 |
| | | Electric Fan | 45 | 65 | 81 | 94 | 96 | 109 | 110 | 112 | 157 | 158 | 160 | 206 | 208 | 210 | 321 | 324 | 327 | 323 |
| | | DuraPlate | 73 | 94 | 123 | 138 | 141 | 184 | 186 | 187 | 328 | 331 | 334 | 396 | 400 | 404 | 638 | 644 | 650 | 646 |
| | 90,0 | None | 26 | 34 | 41 | 42 | 43 | 48 | 49 | 49 | 64 | 64 | 65 | 77 | 78 | 78 | 109 | 110 | 111 | 111 |
| | | Shaft Fan | 50 | 70 | 95 | 87 | 88 | 110 | 112 | 113 | 158 | 160 | 161 | 197 | 199 | 201 | 332 | 335 | 339 | 343 |
| | | Electric Fan | 45 | 65 | 79 | 92 | 94 | 104 | 106 | 107 | 153 | 154 | 156 | 213 | 215 | 217 | 313 | 316 | 320 | 324 |
| | | DuraPlate | 73 | 94 | 120 | 135 | 137 | 176 | 177 | 179 | 319 | 322 | 325 | 406 | 410 | 414 | 619 | 625 | 631 | 645 |
| | 100 | None | 26 | 33 | 41 | 41 | 42 | 49 | 49 | 50 | 64 | 64 | 65 | 75 | 75 | 76 | 103 | 104 | 105 | 108 |
| | | Shaft Fan | 49 | 70 | 93 | 83 | 85 | 110 | 111 | 113 | 158 | 160 | 161 | 189 | 191 | 193 | 315 | 318 | 322 | 331 |
| | | Electric Fan | 45 | 65 | 77 | 89 | 90 | 104 | 106 | 107 | 152 | 154 | 155 | 205 | 207 | 209 | 297 | 300 | 303 | 312 |
| | | DuraPlate | 72 | 96 | 117 | 130 | 132 | 175 | 176 | 178 | 317 | 320 | 323 | 387 | 391 | 394 | 591 | 597 | 603 | 619 |
| | 112 | None | 25 | 32 | 40 | 41 | 42 | 48 | 49 | 49 | 62 | 63 | 63 | 73 | 74 | 75 | 105 | 106 | 107 | 104 |
| | | Shaft Fan | 47 | 68 | 92 | 83 | 85 | 109 | 110 | 111 | 154 | 155 | 157 | 187 | 188 | 190 | 319 | 322 | 325 | 321 |
| | | Electric Fan | 43 | 63 | 77 | 88 | 90 | 103 | 104 | 105 | 148 | 150 | 151 | 202 | 204 | 206 | 301 | 304 | 307 | 303 |
| | | DuraPlate | 70 | 92 | 116 | 129 | 132 | 172 | 174 | 176 | 308 | 312 | 315 | 382 | 386 | 389 | 595 | 601 | 607 | 602 |
| | 125 | None | 25 | 33 | 39 | 40 | 41 | 46 | 46 | 47 | 60 | 61 | 62 | 77 | 78 | 78 | | | | 105 |
| | | Shaft Fan | 48 | 68 | 89 | 81 | 83 | 104 | 105 | 106 | 150 | 151 | 153 | 193 | 195 | 197 | | | | 322 |
| | | Electric Fan | 44 | 63 | 75 | 86 | 88 | 98 | 99 | 100 | 144 | 146 | 147 | 209 | 211 | 213 | | | | 303 |
| | | DuraPlate | 70 | 92 | 113 | 126 | 128 | 164 | 166 | 168 | 300 | 303 | 306 | 392 | 396 | 399 | | | | 601 |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|------------|---------------|----------------------|------------|------|------|------|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1500 | 8,00 | None | * | * | * | | | * | * | * | | | |
| | | Shaft Fan | * | * | * | | | * | * | * | | | |
| | | Electric Fan | * | * | * | | | * | * | * | | | |
| | | DuraPlate | 3239 | 3271 | 3304 | | | 1608 | 1625 | 1641 | | | |
| | 9,00 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * |
| | | Electric Fan | * | * | * | * | * | * | * | * | * | * | * |
| | | DuraPlate | 3267 | 3299 | 3332 | 3014 | 3075 | 2027 | 2047 | 2067 | 716 | 723 | 730 |
| | 10,0 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * |
| | | Electric Fan | * | * | * | * | * | * | * | * | * | * | * |
| | | DuraPlate | 3225 | 3257 | 3289 | 3108 | 3170 | 2164 | 2186 | 2207 | 1388 | 1402 | 1415 |
| | 11,2 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | * | * | * | * | * | * | * | * | * | * | * |
| | | Electric Fan | * | * | * | * | * | * | * | * | * | * | * |
| | | DuraPlate | 3201 | 3233 | 3265 | 3091 | 3153 | 2721 | 2748 | 2776 | 1633 | 1649 | 1665 |
| | 12,5 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 334 | 337 | 340 | * | * | * | * | * | * | * | * |
| | | Electric Fan | * | * | * | * | * | * | * | * | * | * | * |
| | | DuraPlate | 2542 | 2567 | 2593 | 3129 | 3192 | 2739 | 2767 | 2794 | 2372 | 2395 | 2419 |
| 14,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 351 | 355 | 358 | 361 | 368 | * | * | * | * | * | * | |
| | Electric Fan | 273 | 276 | 278 | * | * | * | * | * | * | * | * | |
| | DuraPlate | 2509 | 2535 | 2560 | 2488 | 2537 | 2738 | 2765 | 2792 | 2543 | 2568 | 2593 | |
| 16,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 345 | 349 | 352 | 397 | 405 | * | * | * | * | * | * | |
| | Electric Fan | 269 | 272 | 274 | * | * | * | * | * | * | * | * | |
| | DuraPlate | 2455 | 2479 | 2504 | 2483 | 2533 | 2710 | 2737 | 2764 | 2593 | 2619 | 2645 | |
| 18,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 384 | 388 | 392 | 395 | 403 | * | * | * | * | * | * | |
| | Electric Fan | 312 | 315 | 318 | * | * | * | * | * | * | * | * | |
| | DuraPlate | 2371 | 2395 | 2419 | 2433 | 2482 | 2800 | 2828 | 2856 | 2587 | 2613 | 2639 | |
| 20,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 389 | 393 | 397 | 450 | 459 | * | * | * | * | * | * | |
| | Electric Fan | 317 | 320 | 324 | 362 | 369 | * | * | * | * | * | * | |
| | DuraPlate | 2328 | 2351 | 2374 | 2344 | 2391 | 2731 | 2758 | 2785 | 2729 | 2756 | 2784 | |
| 22,4 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 377 | 380 | 384 | 466 | 475 | * | * | * | * | * | * | |
| | Electric Fan | 307 | 310 | 313 | 378 | 385 | * | * | * | * | * | * | |
| | DuraPlate | 2273 | 2296 | 2318 | 2321 | 2368 | 2677 | 2704 | 2730 | 2674 | 2701 | 2728 | |
| 25,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 512 | 517 | 523 | 453 | 462 | * | * | * | * | * | * | |
| | Electric Fan | 450 | 455 | 459 | 368 | 375 | * | * | * | * | * | * | |
| | DuraPlate | 1744 | 1762 | 1779 | 2268 | 2314 | 2646 | 2672 | 2699 | 2628 | 2654 | 2680 | |
| 28,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 510 | 515 | 520 | 618 | 630 | 722 | 729 | 736 | * | * | * | |
| | Electric Fan | 449 | 453 | 458 | 542 | 553 | 473 | 478 | 482 | * | * | * | |
| | DuraPlate | 1715 | 1733 | 1750 | 1728 | 1762 | 2206 | 2228 | 2250 | 2613 | 2639 | 2665 | |
| 31,5 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 493 | 498 | 503 | 624 | 637 | 701 | 708 | 715 | 698 | 705 | 712 | |
| | Electric Fan | 434 | 438 | 443 | 549 | 560 | 459 | 464 | 468 | 452 | 457 | 462 | |
| | DuraPlate | 1674 | 1690 | 1707 | 1714 | 1748 | 2158 | 2180 | 2201 | 2180 | 2202 | 2223 | |
| 35,5 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 468 | 473 | 478 | 605 | 617 | 737 | 744 | 751 | 681 | 688 | 695 | |
| | Electric Fan | 414 | 418 | 422 | 532 | 542 | 503 | 508 | 513 | 441 | 446 | 450 | |
| | DuraPlate | 1556 | 1572 | 1587 | 1673 | 1707 | 2119 | 2140 | 2161 | 2134 | 2155 | 2177 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | |
|---------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|------|------|---|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 | |
| 1500 | 40,0 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 464 | 469 | 474 | 568 | 579 | 707 | 714 | 721 | 722 | 729 | 736 | |
| | | Electric Fan | 411 | 415 | 419 | 501 | 511 | 482 | 486 | 491 | 490 | 495 | 500 | |
| | | DuraPlate | 1528 | 1543 | 1558 | 1543 | 1574 | 2047 | 2067 | 2088 | 2102 | 2123 | 2144 | |
| | 45,0 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 449 | 453 | 458 | 571 | 583 | 683 | 690 | 697 | 693 | 700 | 707 | |
| | | Electric Fan | 396 | 400 | 404 | 505 | 515 | 464 | 469 | 474 | 470 | 475 | 479 | |
| | | DuraPlate | 1490 | 1505 | 1520 | 1528 | 1559 | 1998 | 2018 | 2038 | 2030 | 2050 | 2070 | |
| | 50,0 | None | * | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 452 | 457 | 462 | 552 | 563 | 719 | 726 | 733 | 671 | 677 | 684 | |
| | | Electric Fan | 400 | 404 | 408 | 488 | 498 | 495 | 499 | 504 | 454 | 458 | 463 | |
| | | DuraPlate | 1532 | 1547 | 1563 | 1491 | 1521 | 2105 | 2126 | 2147 | 1982 | 2002 | 2021 | |
| 56,0 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 447 | 452 | 456 | 549 | 560 | 709 | 717 | 724 | 706 | 713 | 720 | | |
| | Electric Fan | 396 | 400 | 403 | 484 | 494 | 489 | 493 | 498 | 484 | 489 | 494 | | |
| | DuraPlate | 1496 | 1511 | 1526 | 1519 | 1550 | 2076 | 2097 | 2118 | 2088 | 2109 | 2129 | | |
| 63,0 | None | * | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 431 | 435 | 439 | 551 | 562 | 683 | 690 | 697 | 697 | 704 | 711 | | |
| | Electric Fan | 381 | 384 | 388 | 487 | 497 | 469 | 474 | 479 | 478 | 483 | 488 | | |
| | DuraPlate | 1455 | 1470 | 1484 | 1498 | 1528 | 2019 | 2039 | 2059 | 2060 | 2080 | 2101 | | |
| 71,0 | None | 71 | 71 | 72 | * | * | 159 | 161 | 162 | * | * | * | * | |
| | Shaft Fan | 379 | 382 | 386 | 308 | 314 | 810 | 818 | 826 | 689 | 696 | 703 | | |
| | Electric Fan | 342 | 346 | 349 | 249 | 254 | 645 | 652 | 658 | 476 | 481 | 486 | | |
| | DuraPlate | 1189 | 1201 | 1213 | 1245 | 1270 | 1868 | 1886 | 1905 | 2020 | 2041 | 2061 | | |
| 80,0 | None | 68 | 68 | 69 | 87 | 88 | 152 | 154 | 155 | 155 | 157 | 158 | | |
| | Shaft Fan | 367 | 371 | 375 | 467 | 476 | 787 | 795 | 803 | 801 | 809 | 817 | | |
| | Electric Fan | 332 | 335 | 338 | 422 | 430 | 625 | 632 | 638 | 637 | 643 | 649 | | |
| | DuraPlate | 1163 | 1175 | 1187 | 1190 | 1214 | 1828 | 1847 | 1865 | 1857 | 1875 | 1894 | | |
| 90,0 | None | 68 | 68 | 69 | 83 | 85 | * | * | * | * | * | * | * | |
| | Shaft Fan | 369 | 373 | 376 | 453 | 462 | 679 | 686 | 693 | 778 | 786 | 793 | | |
| | Electric Fan | 332 | 336 | 339 | 409 | 417 | 511 | 516 | 521 | 617 | 623 | 630 | | |
| | DuraPlate | 1205 | 1217 | 1229 | 1211 | 1235 | 1817 | 1835 | 1853 | 1817 | 1836 | 1854 | | |
| 100 | None | 68 | 69 | 69 | 81 | 83 | * | * | * | * | * | * | * | |
| | Shaft Fan | 365 | 369 | 373 | 448 | 457 | 668 | 675 | 681 | 669 | 676 | 683 | | |
| | Electric Fan | 329 | 333 | 336 | 404 | 412 | 502 | 507 | 512 | 502 | 507 | 512 | | |
| | DuraPlate | 1181 | 1193 | 1205 | 1195 | 1219 | 1792 | 1810 | 1828 | 1804 | 1822 | 1840 | | |
| 112 | None | 65 | 65 | 66 | 83 | 85 | * | * | * | * | * | * | * | |
| | Shaft Fan | 353 | 357 | 360 | 450 | 459 | 645 | 652 | 658 | 658 | 665 | 672 | | |
| | Electric Fan | 318 | 321 | 325 | 406 | 414 | 484 | 489 | 494 | 494 | 499 | 504 | | |
| | DuraPlate | 1152 | 1164 | 1175 | 1182 | 1206 | 1746 | 1764 | 1781 | 1779 | 1797 | 1815 | | |
| 125 | None | | | | 80 | 81 | | | | * | * | * | * | |
| | Shaft Fan | | | | 436 | 444 | | | | 636 | 643 | 649 | | |
| | Electric Fan | | | | 392 | 400 | | | | 476 | 481 | 486 | | |
| | DuraPlate | | | | 1154 | 1177 | | | | 1734 | 1751 | 1769 | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | | |
|---------|--------------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|--|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 | |
| 1200 | 12,5 | None | | | | | | | | | | | | | | | 138 | 139 | 141 | | |
| | | Shaft Fan | | | | | | | | | | | | | | | | 443 | 447 | 452 | |
| | | Electric Fan | | | | | | | | | | | | | | | | 504 | 509 | 514 | |
| | | DuraPlate | | | | | | | | | | | | | | | | 1126 | 1137 | 1148 | |
| | 14,0 | None | 43 | 62 | 70 | 73 | 74 | 81 | 82 | 83 | 103 | 104 | 105 | 113 | 114 | 115 | 133 | 135 | 136 | 121 | |
| | | Shaft Fan | 69 | 109 | 139 | 130 | 133 | 163 | 165 | 166 | 233 | 235 | 238 | 267 | 269 | 272 | 426 | 430 | 434 | 407 | |
| | | Electric Fan | 74 | 119 | 136 | 162 | 166 | 182 | 184 | 186 | 267 | 270 | 273 | 347 | 351 | 354 | 485 | 490 | 495 | 466 | |
| | | DuraPlate | 119 | 169 | 236 | 266 | 271 | 397 | 401 | 405 | 635 | 642 | 648 | 705 | 712 | 719 | 1085 | 1096 | 1106 | 1066 | |
| | 16,0 | None | 42 | 60 | 71 | 73 | 75 | 81 | 81 | 82 | 102 | 103 | 104 | 112 | 113 | 115 | 139 | 140 | 141 | 121 | |
| | | Shaft Fan | 67 | 105 | 139 | 130 | 133 | 161 | 163 | 165 | 229 | 231 | 234 | 264 | 267 | 270 | 434 | 438 | 442 | 400 | |
| | | Electric Fan | 72 | 115 | 136 | 162 | 165 | 180 | 182 | 184 | 262 | 265 | 268 | 344 | 348 | 351 | 493 | 498 | 503 | 457 | |
| | | DuraPlate | 116 | 163 | 235 | 265 | 270 | 393 | 397 | 401 | 621 | 627 | 633 | 698 | 705 | 712 | 1091 | 1102 | 1112 | 1044 | |
| | 18,0 | None | 40 | 61 | 69 | 72 | 73 | 78 | 78 | 79 | 100 | 101 | 102 | 119 | 120 | 122 | 141 | 143 | 144 | 125 | |
| | | Shaft Fan | 65 | 106 | 136 | 127 | 130 | 155 | 157 | 158 | 224 | 226 | 228 | 276 | 278 | 281 | 423 | 427 | 431 | 406 | |
| | | Electric Fan | 70 | 115 | 133 | 158 | 161 | 173 | 175 | 177 | 256 | 259 | 262 | 357 | 360 | 364 | 479 | 484 | 489 | 463 | |
| | | DuraPlate | 117 | 163 | 229 | 258 | 263 | 377 | 381 | 385 | 605 | 611 | 617 | 714 | 721 | 728 | 1052 | 1063 | 1073 | 1045 | |
| | 20,0 | None | 36 | 52 | 62 | 67 | 68 | 75 | 76 | 77 | 93 | 93 | 94 | 108 | 109 | 110 | 134 | 136 | 137 | 128 | |
| | | Shaft Fan | 60 | 94 | 124 | 119 | 122 | 150 | 151 | 153 | 208 | 210 | 212 | 245 | 248 | 250 | 403 | 407 | 411 | 393 | |
| | | Electric Fan | 64 | 103 | 122 | 149 | 152 | 167 | 169 | 171 | 238 | 240 | 243 | 318 | 321 | 324 | 457 | 462 | 467 | 447 | |
| | | DuraPlate | 106 | 148 | 212 | 244 | 249 | 364 | 368 | 372 | 564 | 570 | 575 | 639 | 646 | 652 | 1010 | 1020 | 1030 | 1001 | |
| 22,4 | None | 35 | 50 | 63 | 67 | 68 | 74 | 75 | 76 | 91 | 92 | 93 | 107 | 108 | 109 | 138 | 139 | 141 | 125 | | |
| | Shaft Fan | 58 | 90 | 124 | 119 | 122 | 148 | 150 | 151 | 203 | 205 | 207 | 243 | 245 | 247 | 409 | 413 | 417 | 383 | | |
| | Electric Fan | 62 | 99 | 122 | 148 | 151 | 165 | 167 | 169 | 233 | 235 | 237 | 314 | 317 | 320 | 463 | 468 | 472 | 436 | | |
| | DuraPlate | 103 | 141 | 211 | 243 | 247 | 360 | 363 | 367 | 550 | 556 | 561 | 633 | 639 | 645 | 1013 | 1024 | 1034 | 977 | | |
| 25,0 | None | 38 | 51 | 61 | 65 | 67 | 71 | 72 | 73 | 89 | 89 | 90 | 112 | 113 | 114 | 155 | 157 | 158 | 127 | | |
| | Shaft Fan | 61 | 91 | 121 | 116 | 118 | 142 | 143 | 144 | 198 | 200 | 202 | 251 | 254 | 257 | 403 | 407 | 411 | 386 | | |
| | Electric Fan | 65 | 99 | 119 | 144 | 147 | 158 | 160 | 161 | 227 | 229 | 231 | 324 | 328 | 331 | 452 | 456 | 461 | 438 | | |
| | DuraPlate | 104 | 141 | 206 | 236 | 241 | 344 | 348 | 351 | 535 | 541 | 546 | 646 | 653 | 659 | 1002 | 1012 | 1022 | 975 | | |
| 28,0 | None | 32 | 47 | 52 | 56 | 57 | 65 | 66 | 66 | 87 | 88 | 89 | 104 | 106 | 107 | 147 | 149 | 150 | 154 | | |
| | Shaft Fan | 52 | 83 | 103 | 101 | 103 | 130 | 131 | 132 | 185 | 187 | 189 | 223 | 225 | 227 | 384 | 388 | 392 | 401 | | |
| | Electric Fan | 56 | 90 | 101 | 125 | 128 | 145 | 146 | 148 | 211 | 213 | 215 | 284 | 287 | 290 | 431 | 435 | 440 | 451 | | |
| | DuraPlate | 88 | 125 | 174 | 206 | 210 | 261 | 264 | 267 | 520 | 525 | 531 | 473 | 478 | 483 | 962 | 971 | 981 | 1005 | | |
| 31,5 | None | 31 | 45 | 52 | 56 | 57 | 64 | 65 | 65 | 85 | 86 | 87 | 103 | 104 | 105 | 150 | 151 | 153 | 149 | | |
| | Shaft Fan | 50 | 80 | 103 | 100 | 102 | 128 | 129 | 131 | 181 | 182 | 184 | 220 | 222 | 224 | 388 | 392 | 396 | 391 | | |
| | Electric Fan | 54 | 87 | 101 | 125 | 128 | 143 | 145 | 146 | 206 | 208 | 210 | 280 | 283 | 286 | 435 | 440 | 444 | 439 | | |
| | DuraPlate | 85 | 120 | 173 | 205 | 209 | 258 | 261 | 263 | 507 | 512 | 517 | 468 | 472 | 477 | 964 | 974 | 983 | 980 | | |
| 35,5 | None | 31 | 45 | 51 | 55 | 56 | 61 | 62 | 63 | 83 | 84 | 85 | 108 | 109 | 110 | 146 | 148 | 149 | 151 | | |
| | Shaft Fan | 51 | 80 | 100 | 98 | 100 | 122 | 124 | 125 | 176 | 178 | 180 | 227 | 229 | 232 | 375 | 378 | 382 | 392 | | |
| | Electric Fan | 55 | 87 | 98 | 122 | 124 | 137 | 138 | 140 | 200 | 202 | 204 | 289 | 292 | 295 | 420 | 424 | 428 | 440 | | |
| | DuraPlate | 86 | 120 | 169 | 199 | 203 | 247 | 249 | 252 | 494 | 499 | 504 | 479 | 483 | 488 | 926 | 935 | 944 | 976 | | |
| 40,0 | None | 29 | 42 | 48 | 51 | 52 | 58 | 58 | 59 | 72 | 72 | 73 | 72 | 72 | 73 | 138 | 139 | 141 | 145 | | |
| | Shaft Fan | 48 | 75 | 94 | 92 | 94 | 116 | 117 | 118 | 161 | 162 | 164 | 175 | 176 | 178 | 356 | 359 | 363 | 373 | | |
| | Electric Fan | 51 | 82 | 92 | 114 | 117 | 129 | 131 | 132 | 184 | 186 | 188 | 229 | 232 | 234 | 399 | 403 | 407 | 419 | | |
| | DuraPlate | 81 | 113 | 160 | 188 | 191 | 234 | 236 | 239 | 468 | 472 | 477 | 400 | 404 | 408 | 886 | 895 | 904 | 928 | | |
| 45,0 | None | 28 | 40 | 48 | 51 | 53 | 57 | 58 | 58 | 70 | 71 | 71 | 71 | 71 | 72 | 140 | 142 | 143 | 140 | | |
| | Shaft Fan | 46 | 72 | 94 | 92 | 94 | 114 | 115 | 117 | 157 | 158 | 160 | 172 | 174 | 176 | 360 | 363 | 367 | 362 | | |
| | Electric Fan | 49 | 78 | 93 | 114 | 116 | 128 | 129 | 130 | 179 | 181 | 183 | 226 | 229 | 231 | 403 | 407 | 411 | 406 | | |
| | DuraPlate | 78 | 109 | 159 | 187 | 190 | 231 | 233 | 236 | 455 | 460 | 464 | 395 | 399 | 403 | 889 | 898 | 907 | 903 | | |
| 50,0 | None | 28 | 41 | 47 | 50 | 51 | 54 | 55 | 56 | 68 | 69 | 69 | 74 | 75 | 75 | 105 | 106 | 107 | 141 | | |
| | Shaft Fan | 47 | 72 | 92 | 89 | 91 | 109 | 110 | 111 | 152 | 154 | 155 | 179 | 181 | 182 | 311 | 314 | 317 | 363 | | |
| | Electric Fan | 50 | 79 | 90 | 111 | 113 | 122 | 123 | 124 | 174 | 176 | 178 | 234 | 236 | 239 | 352 | 355 | 359 | 407 | | |
| | DuraPlate | 79 | 109 | 155 | 182 | 185 | 221 | 223 | 225 | 441 | 446 | 450 | 405 | 409 | 413 | 814 | 822 | 830 | 900 | | |
| 56,0 | None | 28 | 40 | 46 | 48 | 49 | 55 | 56 | 56 | 69 | 70 | 70 | 73 | 74 | 75 | 99 | 100 | 101 | 103 | | |
| | Shaft Fan | 46 | 72 | 91 | 86 | 88 | 109 | 110 | 112 | 152 | 154 | 156 | 173 | 175 | 177 | 294 | 297 | 300 | 308 | | |
| | Electric Fan | 49 | 79 | 89 | 107 | 109 | 122 | 123 | 124 | 174 | 176 | 178 | 225 | 227 | 229 | 333 | 336 | 340 | 349 | | |
| | DuraPlate | 78 | 110 | 152 | 174 | 178 | 219 | 221 | 224 | 428 | 433 | 437 | 381 | 385 | 389 | 777 | 785 | 793 | 814 | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|---------|--------------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1200 | 63,0 | None | 27 | 38 | 46 | 48 | 49 | 54 | 55 | 56 | 67 | 68 | 69 | 72 | 73 | 73 | 101 | 102 | 103 | 99 |
| | | Shaft Fan | 44 | 69 | 89 | 86 | 87 | 108 | 109 | 110 | 149 | 150 | 151 | 171 | 172 | 174 | 298 | 301 | 304 | 298 |
| | | Electric Fan | 48 | 76 | 87 | 106 | 108 | 120 | 122 | 123 | 170 | 171 | 173 | 222 | 224 | 226 | 337 | 340 | 344 | 338 |
| | | DuraPlate | 75 | 106 | 148 | 171 | 174 | 216 | 219 | 221 | 417 | 421 | 426 | 377 | 380 | 384 | 780 | 788 | 796 | 792 |
| | 71,0 | None | 27 | 39 | 44 | 47 | 48 | 52 | 52 | 53 | 65 | 66 | 67 | 76 | 76 | 77 | 114 | 115 | 116 | 100 |
| | | Shaft Fan | 45 | 70 | 87 | 83 | 85 | 103 | 104 | 105 | 144 | 146 | 147 | 178 | 179 | 181 | 280 | 283 | 285 | 299 |
| | | Electric Fan | 48 | 76 | 85 | 103 | 105 | 115 | 116 | 117 | 165 | 166 | 168 | 230 | 232 | 234 | 313 | 316 | 319 | 339 |
| | | DuraPlate | 76 | 106 | 144 | 0 | 0 | 206 | 208 | 210 | 405 | 409 | 413 | 387 | 391 | 395 | 500 | 505 | 510 | 789 |
| | 80,0 | None | 24 | 31 | 40 | 41 | 42 | 49 | 49 | 50 | 64 | 64 | 65 | 76 | 77 | 78 | 116 | 117 | 118 | 116 |
| | | Shaft Fan | 39 | 55 | 77 | 72 | 73 | 93 | 94 | 95 | 132 | 133 | 134 | 159 | 160 | 162 | 283 | 286 | 289 | 285 |
| | | Electric Fan | 42 | 60 | 76 | 89 | 90 | 104 | 105 | 106 | 150 | 151 | 153 | 202 | 204 | 206 | 316 | 319 | 322 | 318 |
| | | DuraPlate | 57 | 73 | 96 | 107 | 109 | 143 | 144 | 146 | 252 | 255 | 258 | 309 | 312 | 315 | 504 | 509 | 514 | 509 |
| | 90,0 | None | 25 | 32 | 39 | 40 | 41 | 46 | 47 | 47 | 62 | 63 | 63 | 80 | 80 | 81 | 114 | 115 | 116 | 117 |
| | | Shaft Fan | 40 | 56 | 75 | 70 | 71 | 89 | 90 | 91 | 128 | 129 | 131 | 164 | 166 | 168 | 276 | 279 | 281 | 286 |
| | | Electric Fan | 43 | 61 | 74 | 86 | 88 | 99 | 100 | 101 | 146 | 147 | 149 | 209 | 211 | 213 | 308 | 311 | 314 | 319 |
| | | DuraPlate | 57 | 73 | 94 | 104 | 107 | 136 | 138 | 139 | 245 | 248 | 250 | 318 | 321 | 324 | 489 | 494 | 499 | 509 |
| | 100 | None | 24 | 31 | 38 | 38 | 39 | 47 | 47 | 47 | 62 | 63 | 63 | 77 | 77 | 78 | 107 | 108 | 109 | 113 |
| | | Shaft Fan | 39 | 56 | 74 | 67 | 68 | 89 | 90 | 91 | 128 | 129 | 130 | 158 | 159 | 161 | 261 | 264 | 266 | 274 |
| | | Electric Fan | 42 | 61 | 72 | 83 | 85 | 99 | 100 | 101 | 145 | 146 | 148 | 200 | 202 | 204 | 292 | 295 | 298 | 306 |
| | | DuraPlate | 56 | 74 | 92 | 101 | 103 | 136 | 137 | 138 | 244 | 246 | 249 | 302 | 306 | 309 | 465 | 470 | 475 | 488 |
| | 112 | None | 23 | 30 | 38 | 38 | 39 | 46 | 46 | 47 | 62 | 63 | 63 | 75 | 76 | 77 | 109 | 110 | 111 | 109 |
| | | Shaft Fan | 38 | 54 | 73 | 67 | 68 | 88 | 88 | 89 | 128 | 129 | 130 | 155 | 157 | 158 | 265 | 267 | 270 | 266 |
| | | Electric Fan | 40 | 59 | 72 | 83 | 85 | 97 | 98 | 99 | 145 | 146 | 148 | 197 | 199 | 201 | 295 | 298 | 301 | 297 |
| | | DuraPlate | 54 | 72 | 91 | 100 | 102 | 134 | 135 | 137 | 237 | 240 | 242 | 298 | 301 | 304 | 469 | 474 | 478 | 474 |
| 125 | None | 23 | 30 | 37 | 37 | 38 | 44 | 44 | 44 | 59 | 59 | 60 | 79 | 80 | 81 | | | | 110 | |
| | Shaft Fan | 38 | 54 | 71 | 65 | 66 | 83 | 84 | 85 | 121 | 122 | 123 | 161 | 163 | 165 | | | | 267 | |
| | Electric Fan | 41 | 59 | 70 | 81 | 82 | 93 | 94 | 94 | 137 | 139 | 140 | 204 | 206 | 208 | | | | 298 | |
| | DuraPlate | 55 | 72 | 88 | 98 | 99 | 127 | 129 | 130 | 231 | 233 | 235 | 307 | 310 | 313 | | | | 474 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|---------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1200 | 8,00 | None | * | * | * | | | * | * | * | | | |
| | | Shaft Fan | 282 | 285 | 288 | | | * | * | * | | | |
| | | Electric Fan | 352 | 355 | 359 | | | * | * | * | | | |
| | | DuraPlate | 2908 | 2937 | 2966 | | | 2760 | 2788 | 2815 | | | |
| | 9,00 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 324 | 328 | 331 | 239 | 244 | * | * | * | * | * | * |
| | | Electric Fan | 394 | 398 | 402 | 317 | 324 | * | * | * | * | * | * |
| | | DuraPlate | 2892 | 2921 | 2950 | 2789 | 2845 | 2881 | 2909 | 2938 | 2346 | 2369 | 2393 |
| | 10,0 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 329 | 332 | 335 | 311 | 317 | * | * | * | * | * | * |
| | | Electric Fan | 397 | 401 | 405 | 393 | 401 | * | * | * | * | * | * |
| | | DuraPlate | 2836 | 2864 | 2892 | 2816 | 2872 | 2895 | 2924 | 2953 | 2578 | 2604 | 2630 |
| | 11,2 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 376 | 379 | 383 | 329 | 336 | * | * | * | * | * | * |
| | | Electric Fan | 441 | 446 | 450 | 410 | 418 | * | * | * | * | * | * |
| | | DuraPlate | 2760 | 2788 | 2816 | 2771 | 2827 | 3127 | 3158 | 3190 | 2640 | 2667 | 2693 |
| | 12,5 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 461 | 466 | 471 | 417 | 425 | 436 | 440 | 444 | * | * | * |
| | | Electric Fan | 521 | 526 | 531 | 495 | 505 | 381 | 384 | 388 | * | * | * |
| | | DuraPlate | 2154 | 2176 | 2197 | 2725 | 2779 | 2700 | 2727 | 2754 | 2952 | 2982 | 3011 |
| 14,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 467 | 472 | 476 | 539 | 550 | 459 | 464 | 468 | 348 | 351 | 355 | |
| | Electric Fan | 525 | 531 | 536 | 611 | 623 | 406 | 410 | 414 | 296 | 299 | 302 | |
| | DuraPlate | 2121 | 2142 | 2163 | 2121 | 2163 | 2648 | 2675 | 2701 | 2599 | 2625 | 2651 | |
| 16,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 453 | 458 | 462 | 558 | 570 | 460 | 464 | 469 | 394 | 398 | 402 | |
| | Electric Fan | 510 | 515 | 520 | 630 | 643 | 408 | 412 | 416 | 342 | 346 | 349 | |
| | DuraPlate | 2069 | 2090 | 2110 | 2110 | 2152 | 2601 | 2627 | 2653 | 2571 | 2597 | 2623 | |
| 18,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 454 | 458 | 463 | 545 | 556 | 562 | 567 | 573 | 405 | 409 | 413 | |
| | Electric Fan | 507 | 512 | 517 | 615 | 627 | 510 | 515 | 521 | 354 | 358 | 361 | |
| | DuraPlate | 1974 | 1993 | 2013 | 2060 | 2102 | 2564 | 2590 | 2615 | 2534 | 2560 | 2585 | |
| 20,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 453 | 458 | 462 | 543 | 554 | 550 | 556 | 561 | 526 | 531 | 536 | |
| | Electric Fan | 505 | 510 | 515 | 608 | 620 | 501 | 506 | 511 | 475 | 480 | 485 | |
| | DuraPlate | 1937 | 1956 | 1975 | 1953 | 1992 | 2486 | 2511 | 2536 | 2523 | 2549 | 2574 | |
| 22,4 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 438 | 442 | 446 | 552 | 563 | 535 | 541 | 546 | 522 | 527 | 532 | |
| | Electric Fan | 488 | 493 | 498 | 617 | 629 | 487 | 492 | 497 | 473 | 478 | 483 | |
| | DuraPlate | 1888 | 1906 | 1925 | 1935 | 1973 | 2430 | 2454 | 2479 | 2451 | 2475 | 2500 | |
| 25,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 474 | 479 | 484 | 534 | 545 | 581 | 587 | 593 | 511 | 516 | 521 | |
| | Electric Fan | 519 | 524 | 529 | 597 | 609 | 535 | 541 | 546 | 463 | 468 | 473 | |
| | DuraPlate | 1418 | 1432 | 1447 | 1887 | 1924 | 2347 | 2370 | 2394 | 2399 | 2423 | 2447 | |
| 28,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 471 | 476 | 480 | 574 | 585 | 763 | 771 | 778 | 563 | 569 | 574 | |
| | Electric Fan | 515 | 520 | 525 | 629 | 641 | 720 | 727 | 735 | 517 | 523 | 528 | |
| | DuraPlate | 1395 | 1409 | 1423 | 1404 | 1432 | 1864 | 1882 | 1901 | 2324 | 2347 | 2370 | |
| 31,5 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 455 | 460 | 464 | 579 | 590 | 739 | 747 | 754 | 746 | 754 | 761 | |
| | Electric Fan | 498 | 503 | 508 | 633 | 645 | 698 | 705 | 712 | 704 | 711 | 718 | |
| | DuraPlate | 1359 | 1372 | 1386 | 1395 | 1423 | 1819 | 1837 | 1856 | 1844 | 1862 | 1881 | |
| 35,5 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 425 | 429 | 433 | 560 | 571 | 741 | 749 | 756 | 725 | 732 | 739 | |
| | Electric Fan | 464 | 469 | 473 | 613 | 625 | 701 | 708 | 715 | 683 | 690 | 697 | |
| | DuraPlate | 1257 | 1269 | 1282 | 1359 | 1386 | 1767 | 1784 | 1802 | 1801 | 1819 | 1837 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|---------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1200 | 40,0 | None | 90 | 91 | 92 | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 421 | 425 | 429 | 515 | 526 | 710 | 717 | 724 | 729 | 737 | 744 |
| | | Electric Fan | 460 | 464 | 469 | 563 | 575 | 671 | 678 | 685 | 690 | 697 | 703 |
| | | DuraPlate | 1235 | 1248 | 1260 | 1245 | 1270 | 1703 | 1721 | 1738 | 1753 | 1770 | 1788 |
| | 45,0 | None | 86 | 87 | 88 | 110 | 113 | * | * | * | * | * | * |
| | | Shaft Fan | 406 | 410 | 414 | 518 | 529 | 686 | 693 | 700 | 698 | 705 | 712 |
| | | Electric Fan | 444 | 448 | 453 | 566 | 577 | 648 | 655 | 661 | 660 | 666 | 673 |
| | | DuraPlate | 1203 | 1215 | 1227 | 1236 | 1261 | 1660 | 1677 | 1693 | 1689 | 1705 | 1722 |
| | 50,0 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 312 | 315 | 318 | 501 | 511 | 711 | 718 | 725 | 675 | 682 | 689 |
| | | Electric Fan | 350 | 353 | 357 | 547 | 558 | 672 | 678 | 685 | 638 | 644 | 650 |
| | | DuraPlate | 1117 | 1128 | 1139 | 1204 | 1228 | 1740 | 1758 | 1775 | 1646 | 1662 | 1679 |
| 56,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 309 | 312 | 315 | 377 | 385 | 699 | 706 | 713 | 699 | 706 | 713 | |
| | Electric Fan | 346 | 350 | 353 | 423 | 432 | 660 | 667 | 674 | 660 | 667 | 673 | |
| | DuraPlate | 1094 | 1105 | 1115 | 1105 | 1127 | 1714 | 1731 | 1748 | 1725 | 1742 | 1759 | |
| 63,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 297 | 300 | 303 | 381 | 388 | 673 | 679 | 686 | 687 | 694 | 701 | |
| | Electric Fan | 333 | 336 | 339 | 426 | 435 | 635 | 642 | 648 | 649 | 656 | 662 | |
| | DuraPlate | 1061 | 1072 | 1082 | 1094 | 1116 | 1664 | 1680 | 1697 | 1698 | 1715 | 1732 | |
| 71,0 | None | 95 | 96 | 97 | * | * | 126 | 128 | 129 | * | * | * | |
| | Shaft Fan | 324 | 327 | 330 | 367 | 374 | 599 | 605 | 611 | 670 | 677 | 683 | |
| | Electric Fan | 350 | 354 | 357 | 411 | 419 | 571 | 577 | 582 | 633 | 639 | 646 | |
| | DuraPlate | 945 | 954 | 964 | 1063 | 1084 | 1394 | 1408 | 1422 | 1657 | 1674 | 1690 | |
| 80,0 | None | 91 | 92 | 93 | 116 | 119 | 121 | 122 | 123 | 123 | 124 | 126 | |
| | Shaft Fan | 314 | 317 | 320 | 399 | 407 | 580 | 586 | 592 | 591 | 596 | 602 | |
| | Electric Fan | 340 | 343 | 346 | 432 | 440 | 553 | 558 | 564 | 563 | 568 | 574 | |
| | DuraPlate | 923 | 932 | 941 | 945 | 964 | 1362 | 1375 | 1389 | 1384 | 1398 | 1411 | |
| 90,0 | None | 89 | 90 | 91 | 112 | 114 | 126 | 127 | 128 | 118 | 119 | 120 | |
| | Shaft Fan | 313 | 317 | 320 | 387 | 395 | 602 | 608 | 614 | 572 | 578 | 584 | |
| | Electric Fan | 340 | 343 | 347 | 419 | 427 | 573 | 579 | 584 | 545 | 551 | 556 | |
| | DuraPlate | 950 | 960 | 969 | 947 | 966 | 1448 | 1462 | 1477 | 1351 | 1365 | 1379 | |
| 100 | None | 89 | 90 | 91 | 107 | 109 | 123 | 125 | 126 | 123 | 124 | 125 | |
| | Shaft Fan | 311 | 314 | 317 | 381 | 388 | 591 | 597 | 603 | 593 | 599 | 605 | |
| | Electric Fan | 337 | 340 | 343 | 413 | 422 | 563 | 568 | 574 | 564 | 570 | 575 | |
| | DuraPlate | 933 | 943 | 952 | 942 | 960 | 1426 | 1440 | 1455 | 1436 | 1450 | 1464 | |
| 112 | None | 85 | 86 | 87 | 110 | 112 | 118 | 119 | 120 | 120 | 122 | 123 | |
| | Shaft Fan | 300 | 303 | 306 | 383 | 390 | 570 | 576 | 582 | 582 | 588 | 594 | |
| | Electric Fan | 325 | 329 | 332 | 415 | 423 | 543 | 548 | 554 | 554 | 560 | 565 | |
| | DuraPlate | 908 | 918 | 927 | 934 | 952 | 1387 | 1401 | 1415 | 1414 | 1428 | 1442 | |
| 125 | None | | | | 105 | 107 | | | | 115 | 116 | 117 | |
| | Shaft Fan | | | | 370 | 377 | | | | 562 | 568 | 573 | |
| | Electric Fan | | | | 401 | 409 | | | | 535 | 540 | 545 | |
| | DuraPlate | | | | 909 | 927 | | | | 1376 | 1389 | 1403 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | | |
|---------|--------------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 | |
| 1000 | 12,5 | None | | | | | | | | | | | | | | | 176 | 177 | 179 | | |
| | | Shaft Fan | | | | | | | | | | | | | | | | 413 | 417 | 421 | |
| | | Electric Fan | | | | | | | | | | | | | | | | 535 | 540 | 546 | |
| | | DuraPlate | | | | | | | | | | | | | | | | 949 | 958 | 968 | |
| | 14,0 | None | 39 | 58 | 68 | 72 | 73 | 83 | 83 | 84 | 109 | 110 | 111 | 129 | 130 | 131 | 168 | 170 | 171 | 158 | |
| | | Shaft Fan | 57 | 91 | 118 | 112 | 114 | 142 | 143 | 144 | 205 | 207 | 209 | 244 | 246 | 248 | 395 | 399 | 402 | 380 | |
| | | Electric Fan | 69 | 112 | 131 | 157 | 160 | 179 | 181 | 183 | 267 | 270 | 273 | 356 | 359 | 363 | 512 | 517 | 522 | 497 | |
| | | DuraPlate | 100 | 138 | 193 | 217 | 221 | 324 | 327 | 330 | 517 | 523 | 528 | 584 | 590 | 596 | 911 | 920 | 929 | 895 | |
| | 16,0 | None | 38 | 56 | 69 | 72 | 73 | 82 | 83 | 83 | 107 | 108 | 109 | 127 | 129 | 130 | 172 | 174 | 176 | 155 | |
| | | Shaft Fan | 55 | 87 | 118 | 112 | 114 | 140 | 141 | 143 | 201 | 203 | 205 | 241 | 243 | 246 | 401 | 405 | 409 | 372 | |
| | | Electric Fan | 67 | 108 | 131 | 156 | 159 | 177 | 179 | 181 | 262 | 264 | 267 | 352 | 355 | 359 | 519 | 524 | 529 | 486 | |
| | | DuraPlate | 97 | 132 | 192 | 216 | 220 | 320 | 323 | 327 | 505 | 510 | 515 | 578 | 583 | 589 | 916 | 925 | 934 | 875 | |
| | 18,0 | None | 39 | 57 | 67 | 70 | 72 | 78 | 79 | 80 | 105 | 106 | 107 | 134 | 135 | 137 | 167 | 169 | 171 | 158 | |
| | | Shaft Fan | 56 | 88 | 115 | 109 | 111 | 134 | 136 | 137 | 196 | 198 | 200 | 251 | 253 | 256 | 384 | 387 | 391 | 375 | |
| | | Electric Fan | 68 | 108 | 128 | 152 | 156 | 170 | 172 | 173 | 255 | 258 | 260 | 364 | 367 | 371 | 496 | 501 | 506 | 489 | |
| | | DuraPlate | 98 | 133 | 188 | 211 | 215 | 307 | 310 | 313 | 492 | 497 | 502 | 592 | 598 | 604 | 876 | 885 | 893 | 875 | |
| | 20,0 | None | 35 | 51 | 58 | 65 | 66 | 75 | 76 | 77 | 96 | 97 | 98 | 117 | 118 | 119 | 158 | 160 | 162 | 152 | |
| | | Shaft Fan | 51 | 80 | 102 | 102 | 104 | 129 | 130 | 131 | 180 | 182 | 184 | 219 | 221 | 223 | 365 | 369 | 372 | 356 | |
| | | Electric Fan | 62 | 99 | 114 | 143 | 146 | 163 | 165 | 166 | 235 | 237 | 240 | 319 | 322 | 325 | 472 | 477 | 482 | 463 | |
| | | DuraPlate | 91 | 121 | 170 | 198 | 202 | 295 | 298 | 301 | 455 | 460 | 464 | 523 | 528 | 534 | 838 | 847 | 855 | 830 | |
| 22,4 | None | 34 | 49 | 58 | 65 | 67 | 74 | 75 | 76 | 94 | 95 | 95 | 115 | 116 | 118 | 162 | 163 | 165 | 148 | | |
| | Shaft Fan | 50 | 77 | 102 | 102 | 104 | 127 | 128 | 130 | 176 | 178 | 179 | 216 | 218 | 220 | 370 | 373 | 377 | 347 | | |
| | Electric Fan | 60 | 95 | 114 | 142 | 145 | 161 | 162 | 164 | 229 | 232 | 234 | 315 | 318 | 321 | 477 | 482 | 487 | 451 | | |
| | DuraPlate | 88 | 116 | 169 | 197 | 201 | 291 | 294 | 297 | 444 | 448 | 453 | 517 | 522 | 528 | 842 | 851 | 859 | 809 | | |
| 25,0 | None | 36 | 49 | 57 | 64 | 65 | 71 | 72 | 72 | 91 | 92 | 93 | 121 | 122 | 123 | 163 | 164 | 166 | 150 | | |
| | Shaft Fan | 52 | 77 | 99 | 99 | 101 | 121 | 122 | 124 | 171 | 173 | 175 | 224 | 226 | 228 | 351 | 355 | 358 | 349 | | |
| | Electric Fan | 62 | 95 | 111 | 138 | 141 | 154 | 155 | 157 | 223 | 225 | 228 | 325 | 328 | 331 | 448 | 452 | 457 | 452 | | |
| | DuraPlate | 89 | 117 | 165 | 192 | 195 | 278 | 281 | 284 | 432 | 436 | 440 | 530 | 535 | 540 | 821 | 829 | 838 | 807 | | |
| 28,0 | None | 30 | 45 | 50 | 55 | 56 | 66 | 66 | 67 | 79 | 80 | 81 | 107 | 108 | 109 | 154 | 155 | 157 | 161 | | |
| | Shaft Fan | 44 | 70 | 87 | 86 | 88 | 112 | 113 | 114 | 149 | 151 | 152 | 193 | 195 | 197 | 334 | 337 | 340 | 350 | | |
| | Electric Fan | 53 | 86 | 97 | 121 | 123 | 142 | 143 | 145 | 195 | 197 | 199 | 278 | 281 | 284 | 427 | 431 | 435 | 447 | | |
| | DuraPlate | 75 | 103 | 142 | 167 | 171 | 214 | 217 | 219 | 408 | 412 | 416 | 387 | 391 | 395 | 786 | 794 | 802 | 822 | | |
| 31,5 | None | 29 | 43 | 50 | 55 | 56 | 65 | 65 | 66 | 77 | 78 | 79 | 105 | 106 | 107 | 157 | 158 | 160 | 156 | | |
| | Shaft Fan | 43 | 67 | 87 | 86 | 88 | 111 | 112 | 113 | 146 | 147 | 149 | 191 | 193 | 195 | 338 | 341 | 344 | 340 | | |
| | Electric Fan | 52 | 83 | 97 | 121 | 123 | 140 | 142 | 143 | 190 | 192 | 194 | 275 | 277 | 280 | 431 | 435 | 440 | 434 | | |
| | DuraPlate | 73 | 99 | 142 | 167 | 170 | 212 | 214 | 216 | 398 | 402 | 406 | 382 | 386 | 390 | 789 | 797 | 805 | 801 | | |
| 35,5 | None | 30 | 44 | 49 | 54 | 55 | 62 | 62 | 63 | 75 | 76 | 77 | 110 | 111 | 112 | 129 | 130 | 131 | 158 | | |
| | Shaft Fan | 43 | 68 | 84 | 84 | 85 | 106 | 107 | 108 | 142 | 143 | 145 | 198 | 200 | 202 | 298 | 301 | 304 | 341 | | |
| | Electric Fan | 52 | 84 | 94 | 117 | 120 | 134 | 135 | 137 | 186 | 187 | 189 | 283 | 286 | 289 | 386 | 390 | 394 | 435 | | |
| | DuraPlate | 74 | 100 | 138 | 162 | 166 | 202 | 204 | 206 | 388 | 391 | 395 | 392 | 396 | 400 | 726 | 733 | 741 | 799 | | |
| 40,0 | None | 28 | 40 | 46 | 50 | 51 | 58 | 59 | 59 | 74 | 75 | 76 | 83 | 84 | 85 | 121 | 122 | 123 | 127 | | |
| | Shaft Fan | 40 | 63 | 79 | 78 | 80 | 100 | 100 | 101 | 140 | 141 | 143 | 160 | 162 | 164 | 282 | 285 | 288 | 296 | | |
| | Electric Fan | 49 | 78 | 89 | 110 | 112 | 126 | 127 | 129 | 182 | 184 | 186 | 237 | 239 | 241 | 366 | 370 | 374 | 384 | | |
| | DuraPlate | 69 | 93 | 130 | 152 | 155 | 191 | 193 | 195 | 379 | 382 | 386 | 335 | 338 | 341 | 693 | 700 | 707 | 726 | | |
| 45,0 | None | 27 | 39 | 46 | 50 | 51 | 57 | 58 | 58 | 73 | 73 | 74 | 82 | 83 | 84 | 123 | 125 | 126 | 123 | | |
| | Shaft Fan | 39 | 60 | 79 | 78 | 80 | 98 | 99 | 100 | 136 | 137 | 139 | 158 | 160 | 161 | 286 | 289 | 291 | 287 | | |
| | Electric Fan | 47 | 75 | 89 | 110 | 112 | 124 | 126 | 127 | 177 | 179 | 181 | 233 | 236 | 238 | 370 | 374 | 378 | 372 | | |
| | DuraPlate | 67 | 89 | 130 | 152 | 155 | 189 | 190 | 192 | 369 | 372 | 376 | 330 | 334 | 337 | 697 | 704 | 711 | 706 | | |
| 50,0 | None | 27 | 39 | 45 | 49 | 50 | 54 | 55 | 56 | 70 | 71 | 72 | 86 | 87 | 88 | 123 | 124 | 125 | 124 | | |
| | Shaft Fan | 40 | 61 | 77 | 76 | 78 | 94 | 95 | 95 | 132 | 134 | 135 | 164 | 166 | 168 | 280 | 283 | 286 | 288 | | |
| | Electric Fan | 48 | 75 | 86 | 107 | 109 | 119 | 120 | 121 | 172 | 174 | 176 | 241 | 244 | 246 | 362 | 366 | 369 | 373 | | |
| | DuraPlate | 68 | 90 | 127 | 147 | 150 | 180 | 182 | 184 | 357 | 361 | 365 | 340 | 343 | 347 | 676 | 682 | 689 | 705 | | |
| 56,0 | None | 27 | 38 | 44 | 47 | 48 | 55 | 56 | 56 | 71 | 72 | 72 | 84 | 84 | 85 | 115 | 116 | 117 | 121 | | |
| | Shaft Fan | 39 | 61 | 76 | 73 | 75 | 94 | 95 | 96 | 132 | 133 | 135 | 158 | 160 | 161 | 265 | 267 | 270 | 278 | | |
| | Electric Fan | 47 | 75 | 85 | 103 | 105 | 119 | 120 | 121 | 171 | 173 | 174 | 229 | 232 | 234 | 343 | 346 | 349 | 360 | | |
| | DuraPlate | 66 | 91 | 124 | 141 | 144 | 179 | 181 | 182 | 347 | 351 | 354 | 319 | 323 | 326 | 644 | 650 | 656 | 675 | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|------------|---------------|----------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 1000 | 63,0 | None | 26 | 37 | 44 | 47 | 48 | 54 | 55 | 55 | 69 | 70 | 70 | 82 | 83 | 84 | 117 | 118 | 120 | 117 |
| | | Shaft Fan | 37 | 58 | 75 | 73 | 74 | 92 | 93 | 94 | 129 | 130 | 131 | 155 | 157 | 159 | 268 | 271 | 274 | 269 |
| | | Electric Fan | 45 | 73 | 83 | 101 | 103 | 117 | 118 | 119 | 166 | 168 | 170 | 226 | 228 | 231 | 347 | 350 | 353 | 348 |
| | | DuraPlate | 64 | 87 | 121 | 139 | 142 | 176 | 178 | 180 | 338 | 341 | 345 | 315 | 318 | 321 | 647 | 654 | 660 | 656 |
| | 71,0 | None | 26 | 37 | 43 | 46 | 47 | 51 | 52 | 52 | 67 | 68 | 68 | 86 | 87 | 88 | 113 | 114 | 115 | 118 |
| | | Shaft Fan | 38 | 59 | 73 | 71 | 72 | 88 | 89 | 90 | 125 | 126 | 127 | 162 | 164 | 165 | 238 | 240 | 243 | 270 |
| | | Electric Fan | 46 | 73 | 81 | 99 | 101 | 111 | 112 | 113 | 162 | 163 | 165 | 234 | 236 | 239 | 303 | 306 | 309 | 349 |
| | | DuraPlate | 65 | 87 | 118 | 135 | 138 | 168 | 169 | 171 | 328 | 332 | 335 | 325 | 328 | 331 | 409 | 413 | 417 | 654 |
| | 80,0 | None | 23 | 29 | 38 | 39 | 40 | 46 | 47 | 47 | 61 | 62 | 62 | 75 | 76 | 76 | 115 | 116 | 117 | 115 |
| | | Shaft Fan | 33 | 46 | 64 | 60 | 61 | 78 | 79 | 79 | 111 | 112 | 113 | 135 | 136 | 138 | 241 | 243 | 246 | 242 |
| | | Electric Fan | 40 | 57 | 72 | 84 | 86 | 98 | 99 | 100 | 143 | 144 | 145 | 194 | 196 | 198 | 306 | 309 | 312 | 308 |
| | | DuraPlate | 49 | 60 | 79 | 88 | 89 | 116 | 117 | 118 | 203 | 205 | 207 | 251 | 253 | 256 | 413 | 417 | 421 | 417 |
| | 90,0 | None | 23 | 30 | 37 | 38 | 39 | 44 | 44 | 45 | 59 | 60 | 61 | 78 | 79 | 80 | 113 | 114 | 115 | 116 |
| | | Shaft Fan | 33 | 46 | 63 | 58 | 60 | 74 | 75 | 76 | 107 | 109 | 110 | 140 | 142 | 143 | 235 | 237 | 239 | 243 |
| | | Electric Fan | 40 | 57 | 70 | 82 | 83 | 94 | 95 | 96 | 139 | 140 | 141 | 201 | 203 | 205 | 297 | 300 | 303 | 309 |
| | | DuraPlate | 49 | 60 | 77 | 85 | 87 | 111 | 112 | 113 | 198 | 200 | 201 | 259 | 261 | 264 | 400 | 404 | 408 | 417 |
| | 100 | None | 23 | 30 | 36 | 36 | 37 | 44 | 45 | 45 | 59 | 60 | 60 | 75 | 76 | 77 | 106 | 107 | 108 | 111 |
| | | Shaft Fan | 33 | 47 | 61 | 56 | 57 | 74 | 75 | 76 | 107 | 108 | 109 | 134 | 135 | 137 | 222 | 224 | 226 | 233 |
| | | Electric Fan | 39 | 58 | 68 | 79 | 80 | 93 | 94 | 95 | 138 | 139 | 141 | 192 | 194 | 196 | 282 | 285 | 287 | 296 |
| | | DuraPlate | 48 | 61 | 75 | 82 | 84 | 110 | 111 | 112 | 196 | 198 | 200 | 246 | 249 | 251 | 380 | 384 | 388 | 399 |
| | 112 | None | 22 | 28 | 36 | 36 | 37 | 44 | 44 | 44 | 58 | 58 | 59 | 74 | 75 | 75 | 108 | 109 | 110 | 107 |
| | | Shaft Fan | 31 | 45 | 61 | 56 | 57 | 73 | 74 | 75 | 104 | 105 | 106 | 132 | 133 | 135 | 225 | 227 | 229 | 226 |
| | | Electric Fan | 38 | 56 | 68 | 78 | 80 | 92 | 93 | 94 | 134 | 136 | 137 | 189 | 191 | 193 | 285 | 288 | 291 | 287 |
| | | DuraPlate | 47 | 59 | 74 | 82 | 83 | 109 | 110 | 111 | 191 | 193 | 195 | 243 | 245 | 248 | 384 | 388 | 392 | 387 |
| 125 | None | 22 | 29 | 35 | 35 | 36 | 41 | 42 | 42 | 56 | 57 | 57 | 77 | 78 | 79 | | | | 108 | |
| | Shaft Fan | 32 | 45 | 59 | 55 | 56 | 70 | 70 | 71 | 101 | 102 | 103 | 138 | 139 | 140 | | | | 226 | |
| | Electric Fan | 39 | 56 | 66 | 76 | 78 | 88 | 89 | 89 | 130 | 132 | 133 | 196 | 198 | 200 | | | | 287 | |
| | DuraPlate | 47 | 59 | 72 | 80 | 81 | 103 | 104 | 106 | 186 | 187 | 189 | 251 | 253 | 256 | | | | 387 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|---------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1000 | 8,00 | None | * | * | * | | | * | * | * | | | |
| | | Shaft Fan | 418 | 422 | 426 | | | * | * | * | | | |
| | | Electric Fan | 595 | 601 | 607 | | | * | * | * | | | |
| | | DuraPlate | 2529 | 2555 | 2580 | | | 2862 | 2891 | 2919 | | | |
| | 9,00 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 440 | 444 | 449 | 444 | 453 | * | * | * | * | * | * |
| | | Electric Fan | 614 | 621 | 627 | 657 | 670 | * | * | * | * | * | * |
| | | DuraPlate | 2502 | 2527 | 2552 | 2453 | 2503 | 2881 | 2909 | 2938 | 2633 | 2659 | 2686 |
| | 10,0 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 432 | 437 | 441 | 489 | 499 | * | * | * | * | * | * |
| | | Electric Fan | 602 | 608 | 614 | 702 | 716 | 360 | 363 | 367 | * | * | * |
| | | DuraPlate | 2445 | 2469 | 2494 | 2458 | 2508 | 2855 | 2883 | 2912 | 2707 | 2734 | 2761 |
| | 11,2 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 447 | 451 | 456 | 488 | 497 | 366 | 369 | 373 | * | * | * |
| | | Electric Fan | 608 | 614 | 621 | 695 | 709 | 487 | 492 | 497 | * | * | * |
| | | DuraPlate | 2359 | 2383 | 2406 | 2408 | 2456 | 2962 | 2991 | 3021 | 2707 | 2734 | 2761 |
| | 12,5 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 470 | 475 | 479 | 523 | 533 | 658 | 665 | 671 | * | * | * |
| | | Electric Fan | 614 | 620 | 627 | 720 | 735 | 776 | 784 | 791 | 397 | 401 | 405 |
| | | DuraPlate | 1828 | 1846 | 1865 | 2338 | 2385 | 2437 | 2461 | 2486 | 2856 | 2885 | 2913 |
| 14,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 471 | 476 | 480 | 559 | 570 | 653 | 660 | 666 | 602 | 608 | 614 | |
| | Electric Fan | 613 | 619 | 625 | 736 | 750 | 767 | 775 | 782 | 718 | 725 | 732 | |
| | DuraPlate | 1799 | 1817 | 1835 | 1804 | 1840 | 2373 | 2396 | 2420 | 2376 | 2400 | 2423 | |
| 16,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 455 | 460 | 465 | 571 | 583 | 640 | 646 | 653 | 610 | 616 | 622 | |
| | Electric Fan | 593 | 599 | 605 | 746 | 761 | 750 | 758 | 765 | 722 | 729 | 737 | |
| | DuraPlate | 1752 | 1769 | 1787 | 1793 | 1829 | 2322 | 2345 | 2368 | 2323 | 2346 | 2370 | |
| 18,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 442 | 446 | 451 | 554 | 565 | 679 | 686 | 692 | 603 | 609 | 615 | |
| | Electric Fan | 571 | 577 | 583 | 724 | 739 | 784 | 792 | 800 | 712 | 719 | 726 | |
| | DuraPlate | 1660 | 1677 | 1693 | 1748 | 1782 | 2248 | 2271 | 2293 | 2278 | 2301 | 2324 | |
| 20,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 440 | 444 | 449 | 532 | 543 | 656 | 663 | 669 | 654 | 661 | 667 | |
| | Electric Fan | 567 | 572 | 578 | 690 | 704 | 757 | 765 | 772 | 758 | 766 | 773 | |
| | DuraPlate | 1630 | 1646 | 1662 | 1643 | 1676 | 2173 | 2195 | 2217 | 2220 | 2242 | 2264 | |
| 22,4 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 424 | 428 | 432 | 539 | 549 | 635 | 642 | 648 | 635 | 641 | 648 | |
| | Electric Fan | 547 | 553 | 558 | 695 | 709 | 734 | 741 | 748 | 735 | 742 | 750 | |
| | DuraPlate | 1586 | 1602 | 1618 | 1629 | 1662 | 2120 | 2141 | 2162 | 2147 | 2169 | 2190 | |
| 25,0 | None | 130 | 131 | 132 | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 424 | 428 | 433 | 520 | 531 | 647 | 653 | 659 | 617 | 623 | 629 | |
| | Electric Fan | 533 | 538 | 543 | 673 | 686 | 740 | 747 | 754 | 714 | 721 | 728 | |
| | DuraPlate | 1181 | 1192 | 1204 | 1586 | 1618 | 2030 | 2050 | 2071 | 2096 | 2117 | 2138 | |
| 28,0 | None | 130 | 132 | 133 | 155 | 158 | * | * | * | * | * | * | |
| | Shaft Fan | 421 | 425 | 430 | 514 | 524 | 718 | 725 | 732 | 632 | 638 | 644 | |
| | Electric Fan | 528 | 533 | 538 | 647 | 660 | 803 | 811 | 819 | 724 | 731 | 738 | |
| | DuraPlate | 1163 | 1174 | 1186 | 1168 | 1192 | 1580 | 1596 | 1611 | 2011 | 2031 | 2051 | |
| 31,5 | None | 124 | 126 | 127 | 159 | 162 | * | * | * | * | * | * | |
| | Shaft Fan | 406 | 410 | 414 | 518 | 528 | 695 | 702 | 709 | 704 | 711 | 718 | |
| | Electric Fan | 510 | 515 | 520 | 650 | 663 | 778 | 786 | 793 | 789 | 797 | 805 | |
| | DuraPlate | 1130 | 1142 | 1153 | 1162 | 1185 | 1539 | 1555 | 1570 | 1563 | 1579 | 1595 | |
| 35,5 | None | 117 | 118 | 120 | 152 | 155 | 160 | 162 | 163 | * | * | * | |
| | Shaft Fan | 376 | 380 | 384 | 500 | 510 | 685 | 692 | 698 | 682 | 689 | 696 | |
| | Electric Fan | 472 | 477 | 481 | 629 | 641 | 764 | 772 | 779 | 765 | 773 | 780 | |
| | DuraPlate | 1043 | 1053 | 1063 | 1131 | 1153 | 1488 | 1503 | 1518 | 1524 | 1539 | 1555 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|------------|---------------|----------------------|------------|------|------|------|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 1000 | 40,0 | None | 117 | 119 | 120 | 141 | 143 | 152 | 154 | 155 | 156 | 157 | 159 |
| | | Shaft Fan | 373 | 377 | 381 | 457 | 466 | 655 | 662 | 668 | 674 | 681 | 688 |
| | | Electric Fan | 467 | 472 | 476 | 574 | 585 | 732 | 739 | 746 | 753 | 761 | 769 |
| | | DuraPlate | 1026 | 1036 | 1046 | 1032 | 1053 | 1432 | 1447 | 1461 | 1476 | 1490 | 1505 |
| | 45,0 | None | 112 | 113 | 114 | 144 | 147 | 145 | 147 | 148 | 148 | 149 | 151 |
| | | Shaft Fan | 360 | 363 | 367 | 460 | 469 | 632 | 639 | 645 | 644 | 651 | 657 |
| | | Electric Fan | 451 | 456 | 460 | 575 | 587 | 707 | 714 | 721 | 720 | 728 | 735 |
| | | DuraPlate | 997 | 1007 | 1017 | 1026 | 1046 | 1394 | 1408 | 1422 | 1419 | 1433 | 1447 |
| | 50,0 | None | 67 | 68 | 69 | 137 | 140 | 153 | 154 | 156 | 141 | 143 | 144 |
| | | Shaft Fan | 305 | 308 | 311 | 444 | 452 | 651 | 658 | 664 | 622 | 629 | 635 |
| | | Electric Fan | 397 | 401 | 405 | 557 | 568 | 729 | 736 | 744 | 697 | 704 | 711 |
| | | DuraPlate | 950 | 960 | 969 | 998 | 1018 | 1456 | 1471 | 1486 | 1381 | 1395 | 1408 |
| 56,0 | None | 68 | 68 | 69 | 81 | 82 | * | * | * | * | * | * | |
| | Shaft Fan | 302 | 305 | 308 | 369 | 376 | 484 | 489 | 494 | 641 | 647 | 653 | |
| | Electric Fan | 393 | 397 | 400 | 482 | 492 | 559 | 564 | 570 | 718 | 725 | 732 | |
| | DuraPlate | 931 | 941 | 950 | 939 | 958 | 1271 | 1284 | 1297 | 1442 | 1456 | 1471 | |
| 63,0 | None | 64 | 65 | 65 | 83 | 85 | * | * | * | * | * | * | |
| | Shaft Fan | 290 | 293 | 296 | 372 | 379 | 464 | 469 | 474 | 475 | 480 | 484 | |
| | Electric Fan | 378 | 382 | 385 | 484 | 493 | 537 | 542 | 547 | 549 | 554 | 560 | |
| | DuraPlate | 902 | 911 | 920 | 932 | 950 | 1231 | 1243 | 1255 | 1257 | 1270 | 1282 | |
| 71,0 | None | 102 | 103 | 104 | 79 | 81 | 156 | 157 | 159 | * | * | * | |
| | Shaft Fan | 279 | 282 | 285 | 358 | 365 | 524 | 529 | 534 | 456 | 461 | 465 | |
| | Electric Fan | 344 | 347 | 351 | 467 | 476 | 579 | 585 | 591 | 527 | 533 | 538 | |
| | DuraPlate | 777 | 785 | 793 | 904 | 922 | 1148 | 1159 | 1171 | 1217 | 1229 | 1242 | |
| 80,0 | None | 98 | 99 | 100 | 126 | 128 | 149 | 151 | 152 | 152 | 154 | 155 | |
| | Shaft Fan | 270 | 273 | 275 | 344 | 351 | 507 | 512 | 517 | 516 | 521 | 526 | |
| | Electric Fan | 333 | 336 | 340 | 424 | 432 | 561 | 566 | 572 | 571 | 577 | 583 | |
| | DuraPlate | 757 | 765 | 773 | 777 | 793 | 1119 | 1130 | 1141 | 1138 | 1149 | 1160 | |
| 90,0 | None | 96 | 97 | 98 | 121 | 123 | 153 | 155 | 156 | 146 | 147 | 149 | |
| | Shaft Fan | 269 | 271 | 274 | 333 | 339 | 524 | 529 | 535 | 500 | 505 | 510 | |
| | Electric Fan | 334 | 337 | 341 | 411 | 419 | 581 | 587 | 593 | 553 | 559 | 564 | |
| | DuraPlate | 777 | 785 | 792 | 772 | 787 | 1185 | 1197 | 1209 | 1109 | 1121 | 1132 | |
| 100 | None | 96 | 97 | 98 | 115 | 118 | 150 | 151 | 153 | 150 | 151 | 153 | |
| | Shaft Fan | 267 | 269 | 272 | 326 | 333 | 515 | 520 | 525 | 516 | 521 | 526 | |
| | Electric Fan | 330 | 334 | 337 | 406 | 414 | 571 | 577 | 582 | 573 | 579 | 584 | |
| | DuraPlate | 764 | 771 | 779 | 768 | 784 | 1167 | 1178 | 1190 | 1174 | 1186 | 1197 | |
| 112 | None | 92 | 92 | 93 | 118 | 120 | 143 | 145 | 146 | 147 | 148 | 149 | |
| | Shaft Fan | 257 | 260 | 262 | 328 | 335 | 496 | 501 | 506 | 506 | 511 | 517 | |
| | Electric Fan | 319 | 322 | 326 | 407 | 415 | 551 | 556 | 562 | 562 | 568 | 574 | |
| | DuraPlate | 742 | 750 | 757 | 764 | 779 | 1133 | 1144 | 1155 | 1155 | 1167 | 1179 | |
| 125 | None | | | | 113 | 115 | | | | 140 | 141 | 143 | |
| | Shaft Fan | | | | 317 | 323 | | | | 488 | 493 | 498 | |
| | Electric Fan | | | | 394 | 402 | | | | 543 | 548 | 554 | |
| | DuraPlate | | | | 743 | 757 | | | | 1122 | 1133 | 1144 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | | |
|------------|--------------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 | |
| 900 | 12,5 | None | | | | | | | | | | | | | | | 188 | 189 | 191 | | |
| | | Shaft Fan | | | | | | | | | | | | | | | | 389 | 393 | 397 | |
| | | Electric Fan | | | | | | | | | | | | | | | | 540 | 545 | 551 | |
| | | DuraPlate | | | | | | | | | | | | | | | | 853 | 862 | 870 | |
| | 14,0 | None | 39 | 57 | 65 | 70 | 72 | 82 | 83 | 84 | 110 | 111 | 112 | 133 | 134 | 135 | 179 | 180 | 182 | 169 | |
| | | Shaft Fan | 52 | 83 | 104 | 102 | 104 | 130 | 131 | 132 | 189 | 191 | 193 | 228 | 230 | 233 | 371 | 375 | 379 | 358 | |
| | | Electric Fan | 67 | 110 | 125 | 153 | 156 | 176 | 178 | 179 | 264 | 267 | 269 | 355 | 358 | 362 | 516 | 521 | 526 | 502 | |
| | | DuraPlate | 92 | 127 | 169 | 192 | 196 | 287 | 290 | 293 | 458 | 463 | 467 | 522 | 527 | 532 | 818 | 826 | 834 | 803 | |
| | 16,0 | None | 38 | 55 | 65 | 70 | 72 | 81 | 82 | 83 | 108 | 109 | 110 | 131 | 133 | 134 | 183 | 185 | 186 | 166 | |
| | | Shaft Fan | 50 | 80 | 104 | 102 | 104 | 128 | 130 | 131 | 185 | 187 | 189 | 225 | 228 | 230 | 377 | 380 | 384 | 350 | |
| | | Electric Fan | 65 | 105 | 125 | 152 | 155 | 174 | 176 | 177 | 258 | 261 | 263 | 350 | 354 | 357 | 522 | 527 | 532 | 490 | |
| | | DuraPlate | 89 | 122 | 169 | 192 | 196 | 284 | 286 | 289 | 447 | 451 | 456 | 516 | 521 | 526 | 823 | 831 | 839 | 784 | |
| | 18,0 | None | 38 | 55 | 63 | 69 | 70 | 78 | 78 | 79 | 105 | 106 | 107 | 138 | 139 | 140 | 175 | 176 | 178 | 168 | |
| | | Shaft Fan | 51 | 80 | 102 | 100 | 102 | 123 | 124 | 125 | 181 | 182 | 184 | 234 | 236 | 239 | 358 | 362 | 365 | 353 | |
| | | Electric Fan | 66 | 106 | 122 | 149 | 152 | 166 | 168 | 170 | 252 | 254 | 257 | 362 | 365 | 369 | 496 | 501 | 506 | 492 | |
| | | DuraPlate | 90 | 123 | 165 | 187 | 191 | 272 | 274 | 277 | 435 | 439 | 444 | 529 | 534 | 540 | 783 | 791 | 799 | 784 | |
| | 20,0 | None | 35 | 50 | 57 | 60 | 62 | 68 | 68 | 69 | 96 | 97 | 98 | 119 | 120 | 121 | 165 | 167 | 168 | 159 | |
| | | Shaft Fan | 47 | 72 | 92 | 89 | 91 | 110 | 111 | 112 | 165 | 167 | 168 | 203 | 205 | 207 | 340 | 343 | 347 | 332 | |
| | | Electric Fan | 61 | 96 | 111 | 135 | 138 | 151 | 153 | 154 | 231 | 233 | 235 | 315 | 318 | 322 | 472 | 477 | 482 | 463 | |
| | | DuraPlate | 83 | 112 | 151 | 171 | 174 | 252 | 255 | 257 | 401 | 405 | 409 | 465 | 469 | 474 | 748 | 756 | 763 | 740 | |
| 22,4 | None | 33 | 48 | 57 | 60 | 62 | 67 | 67 | 68 | 93 | 94 | 95 | 117 | 118 | 119 | 168 | 170 | 172 | 155 | | |
| | Shaft Fan | 45 | 70 | 93 | 89 | 91 | 109 | 110 | 111 | 161 | 163 | 164 | 200 | 202 | 204 | 344 | 348 | 351 | 323 | | |
| | Electric Fan | 59 | 92 | 111 | 135 | 137 | 149 | 151 | 152 | 225 | 227 | 230 | 311 | 314 | 317 | 477 | 482 | 486 | 451 | | |
| | DuraPlate | 81 | 107 | 151 | 170 | 174 | 249 | 251 | 254 | 391 | 395 | 399 | 459 | 464 | 468 | 752 | 760 | 768 | 721 | | |
| 25,0 | None | 35 | 48 | 56 | 59 | 60 | 64 | 64 | 65 | 91 | 92 | 93 | 122 | 123 | 125 | 164 | 165 | 167 | 156 | | |
| | Shaft Fan | 47 | 70 | 90 | 87 | 88 | 104 | 105 | 106 | 157 | 158 | 160 | 207 | 210 | 212 | 322 | 326 | 329 | 324 | | |
| | Electric Fan | 61 | 93 | 109 | 131 | 134 | 143 | 144 | 146 | 219 | 221 | 223 | 321 | 324 | 327 | 442 | 446 | 450 | 452 | | |
| | DuraPlate | 81 | 108 | 147 | 166 | 169 | 238 | 240 | 242 | 380 | 384 | 388 | 471 | 476 | 480 | 730 | 738 | 745 | 720 | | |
| 28,0 | None | 30 | 44 | 49 | 54 | 55 | 65 | 66 | 66 | 79 | 80 | 81 | 93 | 94 | 95 | 155 | 156 | 158 | 162 | | |
| | Shaft Fan | 40 | 63 | 78 | 78 | 80 | 103 | 104 | 105 | 137 | 139 | 140 | 163 | 165 | 167 | 306 | 309 | 312 | 321 | | |
| | Electric Fan | 52 | 84 | 94 | 118 | 120 | 139 | 141 | 142 | 192 | 194 | 196 | 258 | 260 | 263 | 420 | 425 | 429 | 440 | | |
| | DuraPlate | 69 | 96 | 126 | 148 | 151 | 191 | 193 | 195 | 361 | 364 | 368 | 328 | 331 | 334 | 698 | 705 | 712 | 731 | | |
| 31,5 | None | 29 | 42 | 49 | 54 | 55 | 64 | 65 | 65 | 77 | 78 | 79 | 92 | 93 | 94 | 157 | 159 | 160 | 157 | | |
| | Shaft Fan | 39 | 61 | 79 | 78 | 80 | 101 | 102 | 103 | 134 | 135 | 137 | 161 | 163 | 164 | 310 | 313 | 316 | 312 | | |
| | Electric Fan | 50 | 81 | 94 | 117 | 120 | 137 | 139 | 140 | 188 | 190 | 191 | 254 | 257 | 259 | 424 | 429 | 433 | 428 | | |
| | DuraPlate | 67 | 92 | 126 | 148 | 151 | 188 | 190 | 192 | 352 | 355 | 359 | 324 | 327 | 330 | 702 | 709 | 716 | 711 | | |
| 35,5 | None | 29 | 42 | 48 | 53 | 54 | 61 | 62 | 62 | 76 | 76 | 77 | 96 | 97 | 98 | 135 | 136 | 137 | 158 | | |
| | Shaft Fan | 39 | 62 | 77 | 76 | 78 | 97 | 98 | 99 | 131 | 132 | 133 | 167 | 169 | 171 | 278 | 281 | 284 | 313 | | |
| | Electric Fan | 51 | 81 | 92 | 114 | 117 | 131 | 132 | 134 | 183 | 185 | 186 | 263 | 265 | 268 | 387 | 390 | 394 | 429 | | |
| | DuraPlate | 68 | 92 | 123 | 144 | 147 | 180 | 182 | 183 | 342 | 346 | 349 | 333 | 336 | 340 | 650 | 656 | 663 | 710 | | |
| 40,0 | None | 27 | 39 | 45 | 49 | 50 | 57 | 58 | 58 | 74 | 75 | 76 | 86 | 87 | 88 | 127 | 128 | 129 | 133 | | |
| | Shaft Fan | 37 | 57 | 72 | 71 | 73 | 91 | 92 | 93 | 128 | 129 | 131 | 150 | 152 | 153 | 263 | 266 | 268 | 276 | | |
| | Electric Fan | 48 | 76 | 86 | 107 | 109 | 123 | 125 | 126 | 179 | 181 | 183 | 236 | 239 | 241 | 367 | 370 | 374 | 385 | | |
| | DuraPlate | 63 | 86 | 116 | 135 | 137 | 170 | 171 | 173 | 334 | 338 | 341 | 300 | 303 | 306 | 619 | 626 | 632 | 649 | | |
| 45,0 | None | 26 | 38 | 45 | 49 | 50 | 56 | 57 | 58 | 73 | 73 | 74 | 85 | 86 | 87 | 129 | 130 | 132 | 128 | | |
| | Shaft Fan | 35 | 55 | 72 | 71 | 73 | 90 | 91 | 91 | 125 | 126 | 127 | 148 | 150 | 151 | 267 | 269 | 272 | 267 | | |
| | Electric Fan | 46 | 73 | 86 | 107 | 109 | 122 | 123 | 124 | 174 | 176 | 178 | 233 | 235 | 238 | 371 | 374 | 378 | 373 | | |
| | DuraPlate | 61 | 83 | 116 | 134 | 137 | 167 | 169 | 171 | 325 | 329 | 332 | 296 | 299 | 302 | 623 | 629 | 636 | 631 | | |
| 50,0 | None | 27 | 38 | 44 | 48 | 49 | 54 | 54 | 55 | 70 | 71 | 72 | 89 | 90 | 91 | 128 | 129 | 130 | 129 | | |
| | Shaft Fan | 36 | 55 | 70 | 69 | 71 | 85 | 86 | 87 | 121 | 122 | 124 | 154 | 156 | 157 | 261 | 264 | 266 | 268 | | |
| | Electric Fan | 47 | 73 | 84 | 104 | 106 | 116 | 117 | 118 | 169 | 171 | 173 | 241 | 243 | 246 | 361 | 365 | 369 | 374 | | |
| | DuraPlate | 62 | 83 | 113 | 130 | 133 | 160 | 161 | 163 | 315 | 319 | 322 | 305 | 308 | 311 | 604 | 610 | 616 | 630 | | |
| 56,0 | None | 26 | 37 | 43 | 46 | 47 | 54 | 55 | 55 | 71 | 71 | 72 | 86 | 87 | 88 | 120 | 121 | 122 | 126 | | |
| | Shaft Fan | 35 | 55 | 69 | 67 | 68 | 86 | 86 | 87 | 121 | 122 | 123 | 148 | 149 | 151 | 246 | 249 | 251 | 259 | | |
| | Electric Fan | 46 | 73 | 83 | 100 | 102 | 116 | 117 | 118 | 168 | 169 | 171 | 228 | 230 | 233 | 342 | 345 | 349 | 359 | | |
| | DuraPlate | 61 | 84 | 111 | 125 | 127 | 159 | 160 | 162 | 307 | 310 | 313 | 287 | 290 | 293 | 574 | 580 | 586 | 603 | | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 82°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | | | | | | | | |
|---------|--------------|-------------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | 107 | 117 | 127 | 133 | 137 | 143 | 145 | 147 | 153 | 155 | 157 | 163 | 165 | 167 | 173 | 175 | 177 | 187 |
| 900 | 63,0 | None | 25 | 36 | 43 | 46 | 47 | 53 | 54 | 54 | 69 | 70 | 70 | 85 | 85 | 86 | 122 | 123 | 124 | 121 |
| | | Shaft Fan | 34 | 53 | 68 | 66 | 68 | 84 | 85 | 86 | 118 | 119 | 120 | 145 | 147 | 148 | 250 | 252 | 255 | 250 |
| | | Electric Fan | 44 | 71 | 81 | 98 | 100 | 114 | 115 | 117 | 163 | 165 | 166 | 225 | 227 | 229 | 346 | 349 | 353 | 348 |
| | | DuraPlate | 59 | 81 | 108 | 123 | 125 | 157 | 158 | 160 | 299 | 302 | 305 | 283 | 286 | 288 | 578 | 584 | 590 | 585 |
| | 71,0 | None | 25 | 36 | 42 | 45 | 46 | 51 | 51 | 52 | 67 | 67 | 68 | 89 | 90 | 91 | 111 | 112 | 113 | 122 |
| | | Shaft Fan | 34 | 53 | 66 | 64 | 66 | 80 | 81 | 82 | 114 | 115 | 117 | 151 | 153 | 154 | 216 | 218 | 220 | 251 |
| | | Electric Fan | 45 | 71 | 79 | 96 | 98 | 109 | 110 | 111 | 158 | 160 | 162 | 233 | 235 | 237 | 295 | 298 | 301 | 348 |
| | | DuraPlate | 59 | 81 | 105 | 120 | 122 | 149 | 150 | 152 | 290 | 293 | 296 | 292 | 295 | 298 | 364 | 367 | 371 | 584 |
| | 80,0 | None | 22 | 28 | 36 | 37 | 38 | 45 | 45 | 46 | 59 | 60 | 61 | 73 | 74 | 75 | 113 | 114 | 115 | 113 |
| | | Shaft Fan | 30 | 41 | 58 | 54 | 55 | 70 | 71 | 72 | 100 | 101 | 102 | 122 | 124 | 125 | 219 | 221 | 223 | 220 |
| | | Electric Fan | 38 | 55 | 69 | 81 | 83 | 95 | 96 | 97 | 138 | 140 | 141 | 189 | 191 | 193 | 299 | 302 | 305 | 301 |
| | | DuraPlate | 45 | 55 | 70 | 78 | 79 | 103 | 104 | 105 | 179 | 181 | 183 | 222 | 224 | 226 | 367 | 371 | 375 | 370 |
| | 90,0 | None | 22 | 29 | 35 | 37 | 37 | 43 | 43 | 43 | 58 | 58 | 59 | 77 | 77 | 78 | 111 | 112 | 113 | 114 |
| | | Shaft Fan | 30 | 42 | 56 | 53 | 54 | 67 | 68 | 68 | 97 | 98 | 99 | 127 | 129 | 130 | 213 | 215 | 217 | 221 |
| | | Electric Fan | 39 | 55 | 68 | 79 | 81 | 91 | 91 | 92 | 134 | 136 | 137 | 195 | 197 | 199 | 290 | 293 | 296 | 301 |
| | | DuraPlate | 45 | 56 | 69 | 76 | 77 | 98 | 99 | 100 | 174 | 176 | 178 | 229 | 231 | 234 | 356 | 360 | 363 | 371 |
| | 100 | None | 22 | 29 | 35 | 36 | 36 | 43 | 43 | 44 | 58 | 58 | 59 | 74 | 74 | 75 | 104 | 105 | 106 | 109 |
| | | Shaft Fan | 29 | 42 | 55 | 51 | 52 | 67 | 68 | 68 | 97 | 98 | 99 | 122 | 123 | 124 | 201 | 203 | 205 | 211 |
| | | Electric Fan | 38 | 56 | 66 | 76 | 77 | 90 | 91 | 92 | 134 | 135 | 136 | 187 | 189 | 190 | 275 | 277 | 280 | 289 |
| | | DuraPlate | 44 | 56 | 67 | 73 | 74 | 98 | 99 | 100 | 173 | 175 | 177 | 218 | 220 | 223 | 338 | 341 | 345 | 355 |
| | 112 | None | 21 | 27 | 34 | 35 | 36 | 42 | 43 | 43 | 56 | 57 | 57 | 72 | 73 | 74 | 106 | 107 | 108 | 105 |
| | | Shaft Fan | 28 | 40 | 55 | 51 | 52 | 66 | 67 | 67 | 94 | 95 | 96 | 120 | 121 | 122 | 204 | 206 | 208 | 205 |
| | | Electric Fan | 37 | 54 | 65 | 76 | 77 | 89 | 90 | 91 | 130 | 131 | 133 | 184 | 186 | 187 | 278 | 281 | 283 | 279 |
| | | DuraPlate | 43 | 54 | 66 | 72 | 74 | 97 | 97 | 98 | 169 | 170 | 172 | 215 | 217 | 219 | 341 | 345 | 348 | 344 |
| 125 | None | 21 | 28 | 33 | 34 | 35 | 40 | 40 | 41 | 54 | 55 | 55 | 76 | 77 | 77 | | | | 106 | |
| | Shaft Fan | 29 | 41 | 53 | 49 | 50 | 63 | 63 | 64 | 91 | 92 | 93 | 125 | 126 | 128 | | | | 205 | |
| | Electric Fan | 37 | 54 | 64 | 74 | 75 | 85 | 86 | 86 | 126 | 128 | 129 | 191 | 193 | 194 | | | | 280 | |
| | DuraPlate | 43 | 54 | 65 | 70 | 72 | 92 | 93 | 94 | 164 | 165 | 167 | 223 | 225 | 227 | | | | 344 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|---------|--------------|-------------------|------------|------|------|------|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 900 | 8,00 | None | * | * | * | | | * | * | * | | | |
| | | Shaft Fan | 446 | 451 | 455 | | | 353 | 357 | 360 | | | |
| | | Electric Fan | 672 | 679 | 686 | | | 585 | 590 | 596 | | | |
| | | DuraPlate | 2304 | 2327 | 2350 | | | 2768 | 2796 | 2824 | | | |
| | 9,00 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 460 | 465 | 470 | 495 | 505 | 419 | 424 | 428 | * | * | * |
| | | Electric Fan | 682 | 689 | 696 | 769 | 784 | 646 | 652 | 658 | 425 | 430 | 434 |
| | | DuraPlate | 2275 | 2298 | 2320 | 2243 | 2288 | 2755 | 2783 | 2810 | 2602 | 2628 | 2654 |
| | 10,0 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 449 | 454 | 458 | 528 | 539 | 435 | 440 | 444 | * | * | * |
| | | Electric Fan | 665 | 672 | 678 | 801 | 817 | 656 | 662 | 669 | 524 | 529 | 534 |
| | | DuraPlate | 2219 | 2241 | 2263 | 2243 | 2287 | 2717 | 2745 | 2772 | 2626 | 2653 | 2679 |
| | 11,2 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 453 | 457 | 462 | 520 | 531 | 519 | 524 | 529 | * | * | * |
| | | Electric Fan | 658 | 664 | 671 | 785 | 801 | 738 | 745 | 753 | 552 | 558 | 563 |
| | | DuraPlate | 2134 | 2156 | 2177 | 2192 | 2236 | 2781 | 2809 | 2837 | 2607 | 2633 | 2659 |
| | 12,5 | None | * | * | * | * | * | * | * | * | * | * | * |
| | | Shaft Fan | 455 | 460 | 464 | 537 | 547 | 706 | 713 | 720 | 450 | 455 | 459 |
| | | Electric Fan | 639 | 645 | 651 | 788 | 804 | 908 | 917 | 926 | 664 | 670 | 677 |
| | | DuraPlate | 1650 | 1667 | 1683 | 2118 | 2160 | 2252 | 2275 | 2297 | 2700 | 2727 | 2754 |
| 14,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 455 | 460 | 464 | 544 | 555 | 692 | 699 | 706 | 663 | 669 | 676 | |
| | Electric Fan | 635 | 641 | 648 | 769 | 784 | 887 | 896 | 905 | 863 | 872 | 880 | |
| | DuraPlate | 1624 | 1640 | 1656 | 1629 | 1662 | 2186 | 2208 | 2230 | 2205 | 2227 | 2249 | |
| 16,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 439 | 444 | 448 | 554 | 566 | 674 | 681 | 688 | 658 | 664 | 671 | |
| | Electric Fan | 614 | 620 | 627 | 777 | 792 | 864 | 872 | 881 | 851 | 859 | 868 | |
| | DuraPlate | 1579 | 1595 | 1611 | 1620 | 1652 | 2136 | 2157 | 2178 | 2147 | 2168 | 2190 | |
| 18,0 | None | * | * | * | * | * | * | * | * | * | * | * | |
| | Shaft Fan | 422 | 426 | 430 | 537 | 547 | 691 | 698 | 705 | 645 | 651 | 658 | |
| | Electric Fan | 586 | 592 | 598 | 753 | 768 | 870 | 879 | 888 | 832 | 841 | 849 | |
| | DuraPlate | 1493 | 1508 | 1523 | 1577 | 1608 | 2055 | 2075 | 2096 | 2100 | 2121 | 2142 | |
| 20,0 | None | 130 | 131 | 132 | 152 | 155 | * | * | * | * | * | * | |
| | Shaft Fan | 420 | 424 | 428 | 509 | 519 | 665 | 672 | 679 | 671 | 677 | 684 | |
| | Electric Fan | 580 | 586 | 592 | 710 | 724 | 838 | 846 | 854 | 849 | 857 | 866 | |
| | DuraPlate | 1466 | 1481 | 1496 | 1477 | 1507 | 1983 | 2003 | 2023 | 2031 | 2051 | 2072 | |
| 22,4 | None | 124 | 125 | 126 | 157 | 160 | * | * | * | * | * | * | |
| | Shaft Fan | 404 | 408 | 412 | 515 | 525 | 643 | 650 | 656 | 647 | 654 | 660 | |
| | Electric Fan | 560 | 566 | 572 | 713 | 728 | 811 | 819 | 827 | 818 | 826 | 835 | |
| | DuraPlate | 1425 | 1440 | 1454 | 1466 | 1495 | 1933 | 1952 | 1971 | 1961 | 1980 | 2000 | |
| 25,0 | None | 141 | 143 | 144 | 151 | 154 | * | * | * | * | * | * | |
| | Shaft Fan | 393 | 397 | 401 | 496 | 506 | 643 | 650 | 656 | 627 | 634 | 640 | |
| | Electric Fan | 531 | 536 | 541 | 690 | 704 | 802 | 810 | 818 | 794 | 802 | 810 | |
| | DuraPlate | 1058 | 1069 | 1079 | 1426 | 1454 | 1845 | 1864 | 1882 | 1912 | 1931 | 1950 | |
| 28,0 | None | 141 | 143 | 144 | 169 | 172 | 193 | 195 | 197 | * | * | * | |
| | Shaft Fan | 390 | 394 | 398 | 476 | 486 | 677 | 684 | 691 | 630 | 636 | 642 | |
| | Electric Fan | 525 | 531 | 536 | 645 | 658 | 822 | 830 | 839 | 787 | 795 | 803 | |
| | DuraPlate | 1042 | 1053 | 1063 | 1046 | 1067 | 1426 | 1440 | 1454 | 1828 | 1846 | 1864 | |
| 31,5 | None | 135 | 136 | 138 | 173 | 177 | 185 | 187 | 189 | 187 | 188 | 190 | |
| | Shaft Fan | 376 | 380 | 384 | 480 | 490 | 655 | 662 | 668 | 665 | 672 | 679 | |
| | Electric Fan | 508 | 513 | 518 | 647 | 660 | 796 | 804 | 812 | 809 | 817 | 825 | |
| | DuraPlate | 1012 | 1023 | 1033 | 1042 | 1063 | 1388 | 1402 | 1416 | 1411 | 1425 | 1439 | |
| 35,5 | None | 90 | 91 | 92 | 166 | 169 | 189 | 191 | 193 | 179 | 181 | 183 | |
| | Shaft Fan | 307 | 310 | 313 | 463 | 473 | 642 | 648 | 655 | 644 | 650 | 657 | |
| | Electric Fan | 428 | 433 | 437 | 626 | 639 | 777 | 785 | 792 | 784 | 792 | 800 | |
| | DuraPlate | 885 | 894 | 902 | 1013 | 1033 | 1339 | 1353 | 1366 | 1374 | 1388 | 1401 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Type VR3 Right Angle Shaft

Basic Thermal Ratings ★ – kW/Triple Reduction Maximum 93°C Sump Temperature†

| HSS rpm | Nom. Ratio | Auxiliary Cooling | DRIVE SIZE | | | | | | | | | | |
|------------|---------------|----------------------|------------|-----|-----|-----|------|------|------|------|------|------|------|
| | | | 193 | 195 | 197 | 203 | 207 | 213 | 215 | 217 | 223 | 225 | 227 |
| 900 | 40,0 | None | 91 | 91 | 92 | 108 | 110 | 179 | 181 | 183 | 184 | 186 | 188 |
| | | Shaft Fan | 305 | 308 | 311 | 372 | 379 | 614 | 620 | 626 | 632 | 639 | 645 |
| | | Electric Fan | 424 | 428 | 433 | 520 | 531 | 744 | 751 | 759 | 767 | 774 | 782 |
| | | DuraPlate | 872 | 880 | 889 | 875 | 892 | 1288 | 1301 | 1314 | 1327 | 1341 | 1354 |
| | 45,0 | None | 86 | 87 | 88 | 111 | 113 | 171 | 173 | 175 | 174 | 176 | 178 |
| | | Shaft Fan | 293 | 296 | 299 | 375 | 383 | 592 | 598 | 604 | 604 | 610 | 616 |
| | | Electric Fan | 409 | 414 | 418 | 523 | 533 | 719 | 726 | 733 | 733 | 740 | 748 |
| | | DuraPlate | 846 | 855 | 863 | 871 | 889 | 1252 | 1264 | 1277 | 1275 | 1288 | 1301 |
| | 50,0 | None | 86 | 87 | 88 | 106 | 108 | 91 | 91 | 92 | 167 | 169 | 170 |
| | | Shaft Fan | 291 | 294 | 297 | 362 | 369 | 495 | 500 | 505 | 583 | 589 | 594 |
| | | Electric Fan | 409 | 413 | 417 | 505 | 515 | 625 | 632 | 638 | 709 | 716 | 723 |
| | | DuraPlate | 858 | 867 | 875 | 846 | 863 | 1188 | 1200 | 1212 | 1240 | 1252 | 1265 |
| 56,0 | None | 86 | 87 | 88 | 103 | 105 | 89 | 90 | 91 | * | * | * | |
| | Shaft Fan | 289 | 292 | 294 | 352 | 359 | 486 | 491 | 496 | 486 | 491 | 496 | |
| | Electric Fan | 404 | 408 | 412 | 496 | 506 | 614 | 620 | 626 | 615 | 621 | 627 | |
| | DuraPlate | 842 | 850 | 859 | 848 | 864 | 1168 | 1180 | 1192 | 1175 | 1186 | 1198 | |
| 63,0 | None | 82 | 83 | 83 | 106 | 108 | 85 | 85 | 86 | * | * | * | |
| | Shaft Fan | 277 | 280 | 282 | 355 | 362 | 466 | 471 | 476 | 477 | 482 | 487 | |
| | Electric Fan | 389 | 393 | 396 | 498 | 508 | 590 | 596 | 602 | 604 | 610 | 616 | |
| | DuraPlate | 815 | 823 | 831 | 842 | 859 | 1130 | 1142 | 1153 | 1155 | 1166 | 1178 | |
| 71,0 | None | 104 | 105 | 106 | 101 | 103 | 164 | 166 | 167 | * | * | * | |
| | Shaft Fan | 255 | 257 | 260 | 342 | 349 | 480 | 485 | 490 | 458 | 463 | 467 | |
| | Electric Fan | 337 | 340 | 344 | 480 | 490 | 574 | 580 | 585 | 581 | 586 | 592 | |
| | DuraPlate | 692 | 699 | 706 | 816 | 832 | 1021 | 1032 | 1042 | 1117 | 1129 | 1140 | |
| 80,0 | None | 99 | 100 | 101 | 127 | 130 | 157 | 159 | 160 | 161 | 162 | 164 | |
| | Shaft Fan | 246 | 249 | 251 | 314 | 320 | 464 | 469 | 473 | 473 | 478 | 482 | |
| | Electric Fan | 327 | 330 | 333 | 415 | 424 | 556 | 561 | 567 | 566 | 572 | 577 | |
| | DuraPlate | 674 | 681 | 688 | 692 | 706 | 995 | 1005 | 1015 | 1012 | 1022 | 1032 | |
| 90,0 | None | 97 | 98 | 99 | 122 | 125 | 161 | 163 | 164 | 154 | 156 | 157 | |
| | Shaft Fan | 245 | 247 | 250 | 303 | 310 | 480 | 484 | 489 | 457 | 462 | 466 | |
| | Electric Fan | 327 | 331 | 334 | 403 | 411 | 577 | 582 | 588 | 548 | 554 | 559 | |
| | DuraPlate | 689 | 696 | 703 | 684 | 698 | 1052 | 1062 | 1073 | 986 | 996 | 1005 | |
| 100 | None | 97 | 98 | 99 | 117 | 119 | 158 | 159 | 161 | 157 | 159 | 161 | |
| | Shaft Fan | 243 | 245 | 248 | 297 | 302 | 470 | 475 | 480 | 472 | 477 | 481 | |
| | Electric Fan | 324 | 327 | 330 | 398 | 406 | 566 | 572 | 577 | 568 | 574 | 580 | |
| | DuraPlate | 678 | 685 | 692 | 681 | 695 | 1035 | 1045 | 1055 | 1041 | 1051 | 1062 | |
| 112 | None | 93 | 94 | 94 | 119 | 122 | 150 | 152 | 153 | 154 | 156 | 157 | |
| | Shaft Fan | 234 | 236 | 238 | 299 | 305 | 453 | 457 | 462 | 463 | 467 | 472 | |
| | Electric Fan | 313 | 316 | 319 | 399 | 407 | 546 | 551 | 557 | 558 | 563 | 569 | |
| | DuraPlate | 659 | 665 | 672 | 678 | 692 | 1003 | 1013 | 1024 | 1024 | 1034 | 1044 | |
| 125 | None | | | | 114 | 116 | | | | 147 | 149 | 150 | |
| | Shaft Fan | | | | 288 | 294 | | | | 446 | 450 | 455 | |
| | Electric Fan | | | | 386 | 394 | | | | 538 | 543 | 549 | |
| | DuraPlate | | | | 659 | 672 | | | | 993 | 1003 | 1013 | |

★ Basic thermal ratings listed are based on an ambient temperature of 20°C(68°F) at sea level. Application-adjusted thermal ratings must be calculated using the application-adjusted thermal factors on Page 6 before comparing to the required load. For cooling beyond the range of values listed, contact the Factory.

† Actual sump temperature will vary based upon exact ambient conditions and load profile.

* Consult Factory.

Exact Ratios/Right Angle Shaft Drives

Type VR

| Nominal Ratios | UNIT SIZE | | | | | | | | | | | | | | | | | |
|-------------------------|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 107VR | 117VR | 127VR | 133VR | 137VR | 143VR | 145VR | 147VR | 153VR | 157VR | 157VR | 163VR | 165VR | 167VR | 173VR | 175VR | 177VR | 187VR |
| DOUBLE REDUCTION | | | | | | | | | | | | | | | | | | |
| 6,30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 6,735 | 6,735 | 6,735 | --- |
| 7,10 | 7,344 | 7,058 | 7,408 | 7,351 | 7,351 | 7,132 | 7,132 | 7,132 | 7,053 | 7,053 | 7,053 | 7,344 | 7,344 | 7,344 | 7,451 | 7,451 | 7,451 | 7,339 |
| 8,00 | 8,030 | 8,053 | 8,320 | 8,256 | 8,256 | 7,983 | 7,983 | 7,983 | 8,165 | 8,165 | 8,165 | 8,090 | 8,090 | 8,090 | 8,515 | 8,515 | 8,515 | 7,983 |
| 9,00 | 8,941 | 9,059 | 8,996 | 8,927 | 8,927 | 9,168 | 9,168 | 9,168 | 8,828 | 8,828 | 8,828 | 8,947 | 8,947 | 8,947 | 9,217 | 9,217 | 9,217 | 9,154 |
| 10,0 | 10,03 | 9,745 | 10,04 | 10,28 | 10,28 | 9,737 | 9,737 | 9,737 | 9,737 | 9,737 | 9,737 | 10,05 | 10,05 | 10,05 | 10,20 | 10,20 | 10,20 | 10,04 |
| 11,2 | 10,96 | 11,12 | 11,27 | 11,54 | 11,54 | 10,90 | 10,90 | 10,90 | 11,27 | 11,27 | 11,27 | 11,07 | 11,07 | 11,07 | 11,65 | 11,65 | 11,65 | 10,92 |
| 12,5 | 12,21 | 12,51 | 12,19 | 12,48 | 12,48 | 12,52 | 12,52 | 12,52 | 12,19 | 12,19 | 12,19 | 12,24 | 12,24 | 12,24 | --- | --- | --- | 12,53 |
| TRIPLE REDUCTION | | | | | | | | | | | | | | | | | | |
| 12,5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 13,74 | 13,74 | 13,74 | --- |
| 14,0 | 14,64 | 14,39 | 14,26 | 14,44 | 14,44 | 14,09 | 14,09 | 14,09 | 14,39 | 14,39 | 14,39 | 14,40 | 14,40 | 14,40 | 15,20 | 15,20 | 15,20 | 14,97 |
| 16,0 | 16,00 | 16,42 | 16,02 | 16,22 | 16,22 | 15,77 | 15,77 | 15,77 | 16,66 | 16,66 | 16,66 | 15,86 | 15,86 | 15,86 | 17,37 | 17,37 | 17,37 | 16,29 |
| 18,0 | 17,82 | 18,47 | 17,32 | 17,54 | 17,54 | 18,11 | 18,11 | 18,11 | 18,01 | 18,01 | 18,01 | 17,54 | 17,54 | 17,54 | 18,79 | 18,79 | 18,79 | 18,67 |
| 20,0 | 20,03 | 20,00 | 19,82 | 20,15 | 20,15 | 20,43 | 20,43 | 20,43 | 19,91 | 19,91 | 19,91 | 20,81 | 20,81 | 20,81 | 20,78 | 20,78 | 20,78 | 20,47 |
| 22,4 | 21,90 | 22,82 | 22,26 | 22,63 | 22,63 | 22,86 | 22,86 | 22,86 | 23,05 | 23,05 | 23,05 | 22,92 | 22,92 | 22,92 | 23,75 | 23,75 | 23,75 | 22,27 |
| 25,0 | 24,39 | 25,67 | 24,07 | 24,47 | 24,47 | 26,26 | 26,26 | 26,26 | 24,93 | 24,93 | 24,93 | 25,35 | 25,35 | 25,35 | 25,65 | 25,65 | 25,65 | 25,53 |
| 28,0 | 28,74 | 27,65 | 29,11 | 28,00 | 28,00 | 27,67 | 27,67 | 27,67 | 28,15 | 28,15 | 28,15 | 29,05 | 29,05 | 29,05 | 28,38 | 28,38 | 28,38 | 27,95 |
| 31,5 | 31,42 | 31,54 | 32,70 | 31,44 | 31,44 | 30,98 | 30,98 | 30,98 | 32,58 | 32,58 | 32,58 | 32,00 | 32,00 | 32,00 | 32,43 | 32,43 | 32,43 | 30,40 |
| 35,5 | 34,99 | 35,48 | 35,35 | 34,00 | 34,00 | 35,58 | 35,58 | 35,58 | 35,23 | 35,23 | 35,23 | 35,39 | 35,39 | 35,39 | 36,24 | 36,24 | 36,24 | 34,86 |
| 40,0 | 40,57 | 39,64 | 40,46 | 39,52 | 39,52 | 38,30 | 38,30 | 38,30 | 40,46 | 40,46 | 40,46 | 41,66 | 41,66 | 41,66 | 40,09 | 40,09 | 40,09 | 39,49 |
| 45,0 | 44,35 | 45,22 | 45,44 | 44,38 | 44,38 | 42,87 | 42,87 | 42,87 | 46,84 | 46,84 | 46,84 | 45,88 | 45,88 | 45,88 | 45,82 | 45,82 | 45,82 | 42,96 |
| 50,0 | 49,39 | 50,88 | 49,13 | 47,99 | 47,99 | 49,24 | 49,24 | 49,24 | 50,65 | 50,65 | 50,65 | 50,74 | 50,74 | 50,74 | 50,85 | 50,85 | 50,85 | 49,26 |
| 56,0 | 57,31 | 56,28 | 58,38 | 57,11 | 57,11 | 54,77 | 54,77 | 54,77 | 55,45 | 55,45 | 55,45 | 58,10 | 58,10 | 58,10 | 56,25 | 56,25 | 56,25 | 55,40 |
| 63,0 | 62,66 | 61,55 | 63,81 | 62,70 | 62,70 | 61,31 | 61,31 | 61,31 | 64,19 | 64,19 | 64,19 | 64,00 | 64,00 | 64,00 | 64,29 | 64,29 | 64,29 | 60,27 |
| 71,0 | 69,77 | 69,25 | 69,00 | 67,80 | 67,80 | 70,41 | 70,41 | 70,41 | 69,41 | 69,41 | 69,41 | 70,78 | 70,78 | 70,78 | 73,65 | 73,65 | 73,65 | 69,11 |
| 80,0 | 77,83 | 81,43 | 80,84 | 80,02 | 80,02 | 77,30 | 77,30 | 77,30 | 83,33 | 83,33 | 83,33 | 81,73 | 81,73 | 81,73 | 84,18 | 84,18 | 84,18 | 78,91 |
| 90,0 | 86,67 | 91,61 | 87,41 | 86,53 | 86,53 | 88,77 | 88,77 | 88,77 | 90,11 | 90,11 | 90,11 | 90,39 | 90,39 | 90,39 | 93,41 | 93,41 | 93,41 | 90,49 |
| 100 | 100,6 | 101,34 | 103,9 | 103,0 | 103,0 | 98,75 | 98,75 | 98,75 | 98,65 | 98,65 | 98,65 | 103,5 | 103,5 | 103,5 | 103,3 | 103,3 | 103,3 | 101,8 |
| 112 | 110,0 | 110,8 | 113,5 | 113,1 | 113,1 | 110,5 | 110,5 | 110,5 | 114,2 | 114,2 | 114,2 | 114,0 | 114,0 | 114,0 | 118,1 | 118,1 | 118,1 | 110,7 |
| 125 | 122,4 | 124,7 | 122,8 | 122,2 | 122,2 | 127,0 | 127,0 | 127,0 | 123,5 | 123,5 | 123,5 | 126,1 | 126,1 | 126,1 | --- | --- | --- | 127,0 |

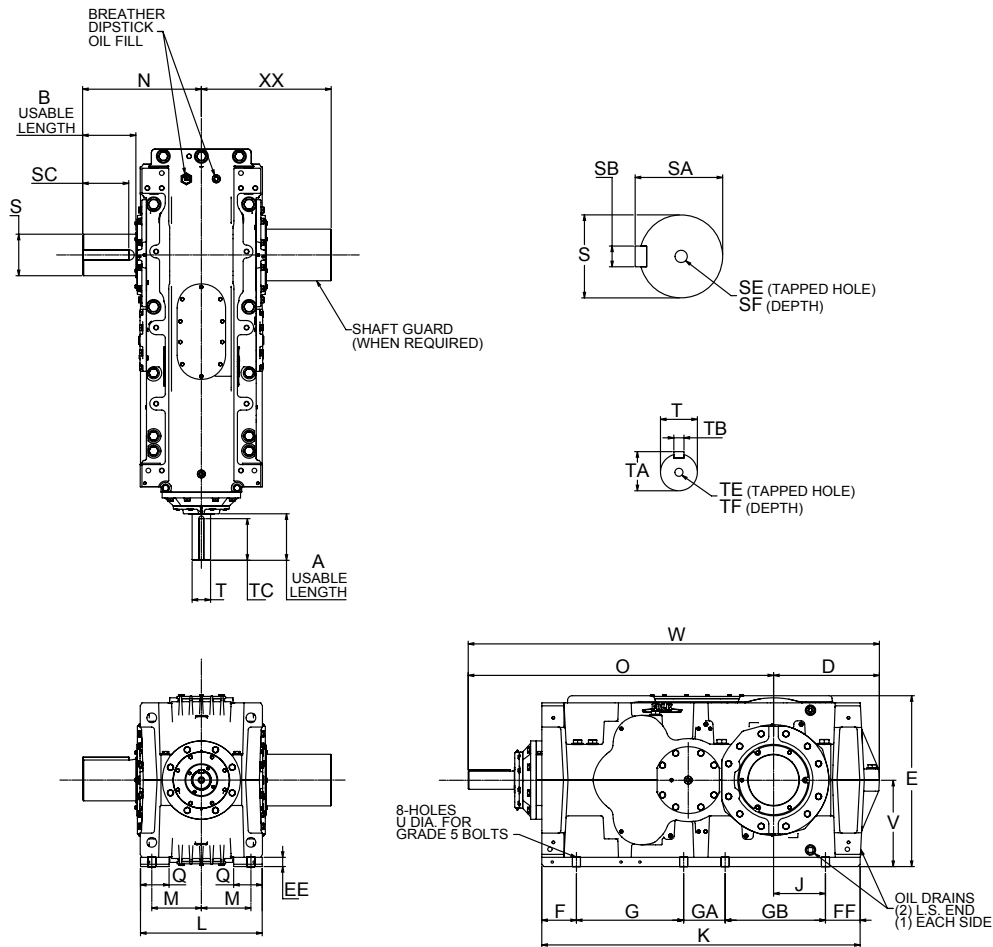
Exact Ratios/Right Angle Shaft Drives

Type VR

| Nominal Ratios | DRIVE SIZE | | | | | | | | | | |
|-------------------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | 193VR | 195VR | 197VR | 203VR | 207VR | 213VR | 215VR | 217VR | 223VR | 225VR | 227VR |
| TRIPLE REDUCTION | | | | | | | | | | | |
| 8,00 | 8,396 | 8,396 | 8,396 | --- | --- | 7,875 | 7,875 | 7,875 | --- | --- | --- |
| 9,00 | 9,479 | 9,479 | 9,479 | 9,344 | 9,344 | 9,064 | 9,064 | 9,064 | 8,815 | 8,815 | 8,815 |
| 10,0 | 10,36 | 10,36 | 10,36 | 10,43 | 10,43 | 9,910 | 9,910 | 9,910 | 10,12 | 10,12 | 10,12 |
| 11,2 | 11,89 | 11,89 | 11,89 | 11,37 | 11,37 | 11,01 | 11,01 | 11,01 | 11,03 | 11,03 | 11,03 |
| 12,5 | 13,45 | 13,45 | 13,45 | 13,08 | 13,08 | 12,32 | 12,32 | 12,32 | 12,29 | 12,29 | 12,29 |
| 14,0 | 15,19 | 15,19 | 15,19 | 14,97 | 14,97 | 14,18 | 14,18 | 14,18 | 13,79 | 13,79 | 13,79 |
| 16,0 | 16,60 | 16,60 | 16,60 | 16,71 | 16,71 | 15,50 | 15,50 | 15,50 | 15,83 | 15,83 | 15,83 |
| 18,0 | 18,23 | 18,23 | 18,23 | 18,21 | 18,21 | 17,29 | 17,29 | 17,29 | 17,25 | 17,25 | 17,25 |
| 20,0 | 20,58 | 20,58 | 20,58 | 20,28 | 20,28 | 19,90 | 19,90 | 19,90 | 19,35 | 19,35 | 19,35 |
| 22,4 | 22,49 | 22,49 | 22,49 | 22,64 | 22,64 | 21,75 | 21,75 | 21,75 | 22,20 | 22,20 | 22,20 |
| 25,0 | 24,92 | 24,92 | 24,92 | 24,68 | 24,68 | 25,32 | 25,32 | 25,32 | 24,20 | 24,20 | 24,20 |
| 28,0 | 28,13 | 28,13 | 28,13 | 27,73 | 27,73 | 27,64 | 27,64 | 27,64 | 28,26 | 28,26 | 28,26 |
| 31,5 | 30,74 | 30,74 | 30,74 | 30,95 | 30,95 | 30,22 | 30,22 | 30,22 | 30,84 | 30,84 | 30,84 |
| 35,5 | 35,56 | 35,56 | 35,56 | 33,73 | 33,73 | 35,47 | 35,47 | 35,47 | 33,62 | 33,62 | 33,62 |
| 40,0 | 40,14 | 40,14 | 40,14 | 39,57 | 39,57 | 40,83 | 40,83 | 40,83 | 39,71 | 39,71 | 39,71 |
| 45,0 | 43,87 | 43,87 | 43,87 | 44,16 | 44,16 | 44,64 | 44,64 | 44,64 | 45,56 | 45,56 | 45,56 |
| 50,0 | 50,18 | 50,18 | 50,18 | 48,14 | 48,14 | 50,88 | 50,88 | 50,88 | 49,67 | 49,67 | 49,67 |
| 56,0 | 56,66 | 56,66 | 56,66 | 55,85 | 55,85 | 55,28 | 55,28 | 55,28 | 56,78 | 56,78 | 56,78 |
| 63,0 | 61,92 | 61,92 | 61,92 | 62,32 | 62,32 | 60,43 | 60,43 | 60,43 | 61,69 | 61,69 | 61,69 |
| 71,0 | 71,68 | 71,68 | 71,68 | 67,94 | 67,94 | 73,45 | 73,45 | 73,45 | 67,24 | 67,24 | 67,24 |
| 80,0 | 78,33 | 78,33 | 78,33 | 78,84 | 78,84 | 80,30 | 80,30 | 80,30 | 81,97 | 81,97 | 81,97 |
| 90,0 | 89,60 | 89,60 | 89,60 | 85,95 | 85,95 | 91,53 | 91,53 | 91,53 | 89,35 | 89,35 | 89,35 |
| 100 | 101,2 | 101,2 | 101,2 | 99,72 | 99,72 | 99,44 | 99,44 | 99,44 | 102,1 | 102,1 | 102,1 |
| 112 | 110,6 | 110,6 | 110,6 | 111,3 | 111,3 | 108,7 | 108,7 | 108,7 | 111,0 | 111,0 | 111,0 |
| 125 | --- | --- | --- | 121,3 | 121,3 | --- | --- | --- | 121,0 | 121,0 | 121,0 |

Type VRC2 Double Reduction Solid Low-Speed Shaft, Base Drive

Sizes 133 – 173/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | B | D | E | EE | F | FF | G | GA | GB | J | K | L | M | N• | O | Q |
|-------------|-----------|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|------|-------|
| 133 | 7,10-12,5 | 150 | 190 | 332 | 552 | 35 | 123,4 | 117,3 | 297,5 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 422 | 1029 | 112,7 |
| 143 | 7,10-12,5 | 155 | 190 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 430 | 1087 | 108,0 |
| 153 | 7,10-12,5 | 180 | 190 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 455 | 1215 | 114,0 |
| 163 | 7,10-12,5 | 195 | 225 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 515 | 1324 | 124,0 |
| 173 | 6,30-11,2 | 240 | 270 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 585 | 1525 | 150,0 |

| DRIVE SIZE★ | Ratios | Low-Speed Shaft† | | | | | | | High-Speed Shaft† | | | | | U | V | W | XX | Approx. Wt, kg, |
|-------------|-----------|------------------|-------|----|-----|-----|----|-------|-------------------|----|-----|-----|----|----|-----|------|-----|-----------------|
| | | S* | SA | SB | SC | SE | SF | T* | TA | TB | TC | TE | TF | | | | | |
| 133 | 7,10-12,5 | 130m6 | 136,8 | 32 | 180 | M24 | 50 | 60m6 | 63,8 | 18 | 150 | M20 | 42 | 24 | 280 | 1360 | 432 | 862 |
| 143 | 7,10-12,5 | 140m6 | 147,8 | 36 | 180 | M30 | 60 | 60m6 | 63,8 | 18 | 150 | M20 | 42 | 24 | 315 | 1441 | 440 | 1100 |
| 153 | 7,10-12,5 | 160m6 | 168,8 | 40 | 180 | M30 | 60 | 75m6 | 79,3 | 20 | 180 | M20 | 42 | 28 | 335 | 1604 | 471 | 1498 |
| 163 | 7,10-12,5 | 180m6 | 189,8 | 45 | 200 | M30 | 60 | 80m6 | 84,8 | 22 | 180 | M20 | 42 | 35 | 375 | 1783 | 563 | 2161 |
| 173 | 6,30-11,2 | 195m6 | 204,8 | 45 | 250 | M30 | 60 | 100m6 | 105,8 | 28 | 220 | M24 | 50 | 35 | 450 | 2109 | 612 | 2981 |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

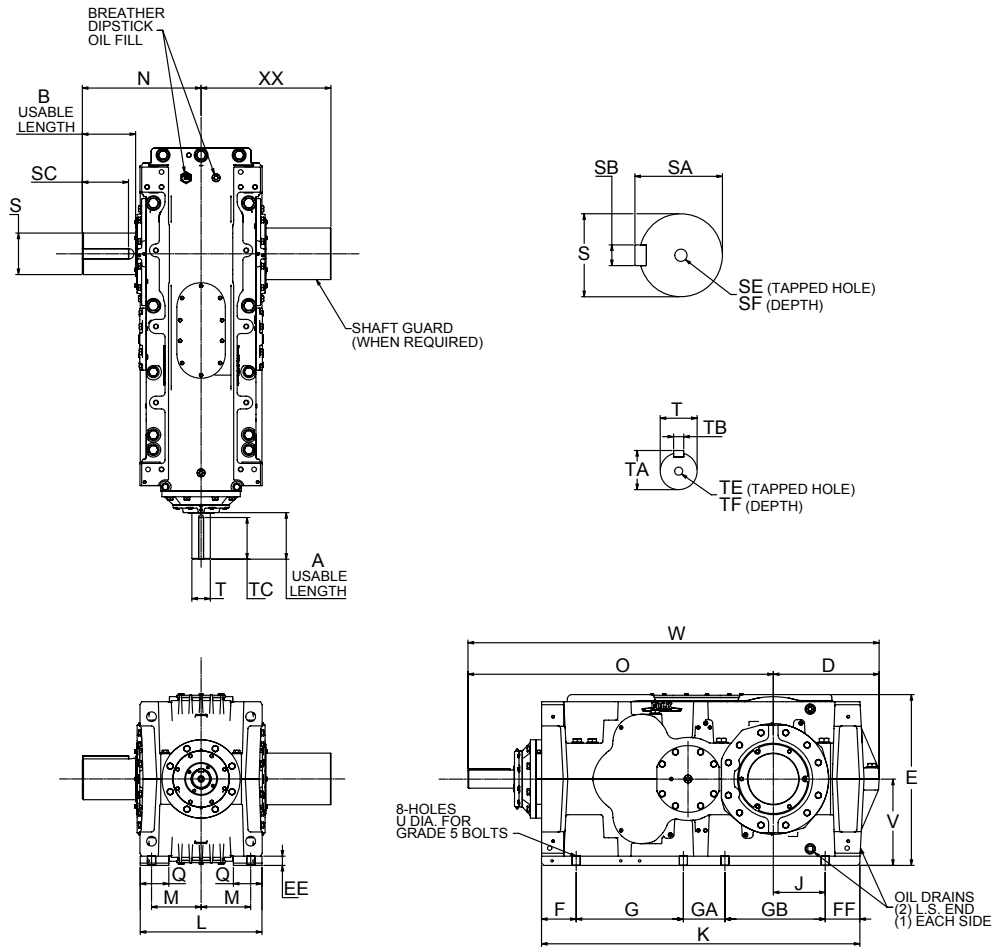
† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

● Single low-speed shaft extension is standard; double extension is special.

Type VRC2 Double Reduction Solid Low-Speed Shaft, Base Drive

Sizes 145 – 175/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | B | D | E | EE | F | FF | G | GA | GB | J | K | L | M | N• | O | Q |
|-------------|-----------|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|------|-------|
| 145 | 7,10-12,5 | 155 | 190 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 430 | 1087 | 108,0 |
| 155 | 7,10-12,5 | 180 | 190 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 455 | 1215 | 114,0 |
| 165 | 7,10-12,5 | 195 | 225 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 515 | 1324 | 124,0 |
| 175 | 6,30-11,2 | 240 | 270 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 585 | 1525 | 150,0 |

| DRIVE SIZE★ | Ratios | Low-Speed Shaft† | | | | | | | High-Speed Shaft† | | | | | | U | V | W | XX | Approx. Wt. kg. |
|-------------|-----------|------------------|-------|----|-----|-----|----|-------|-------------------|----|-----|-----|----|----|-----|------|-----|------|-----------------|
| | | S* | SA | SB | SC | SE | SF | T* | TA | TB | TC | TE | TF | | | | | | |
| 145 | 7,10-12,5 | 140m6 | 147,8 | 36 | 180 | M30 | 60 | 60m6 | 63,8 | 18 | 150 | M20 | 42 | 24 | 315 | 1441 | 440 | 1100 | |
| 155 | 7,10-12,5 | 160m6 | 168,8 | 40 | 180 | M30 | 60 | 75m6 | 79,3 | 20 | 180 | M20 | 42 | 28 | 335 | 1604 | 471 | 1498 | |
| 165 | 7,10-12,5 | 180m6 | 189,8 | 45 | 200 | M30 | 60 | 80m6 | 84,8 | 22 | 180 | M20 | 42 | 35 | 375 | 1783 | 563 | 2161 | |
| 175 | 6,30-11,2 | 195m6 | 204,8 | 45 | 250 | M30 | 60 | 100m6 | 105,8 | 28 | 220 | M24 | 50 | 35 | 450 | 2109 | 612 | 2981 | |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

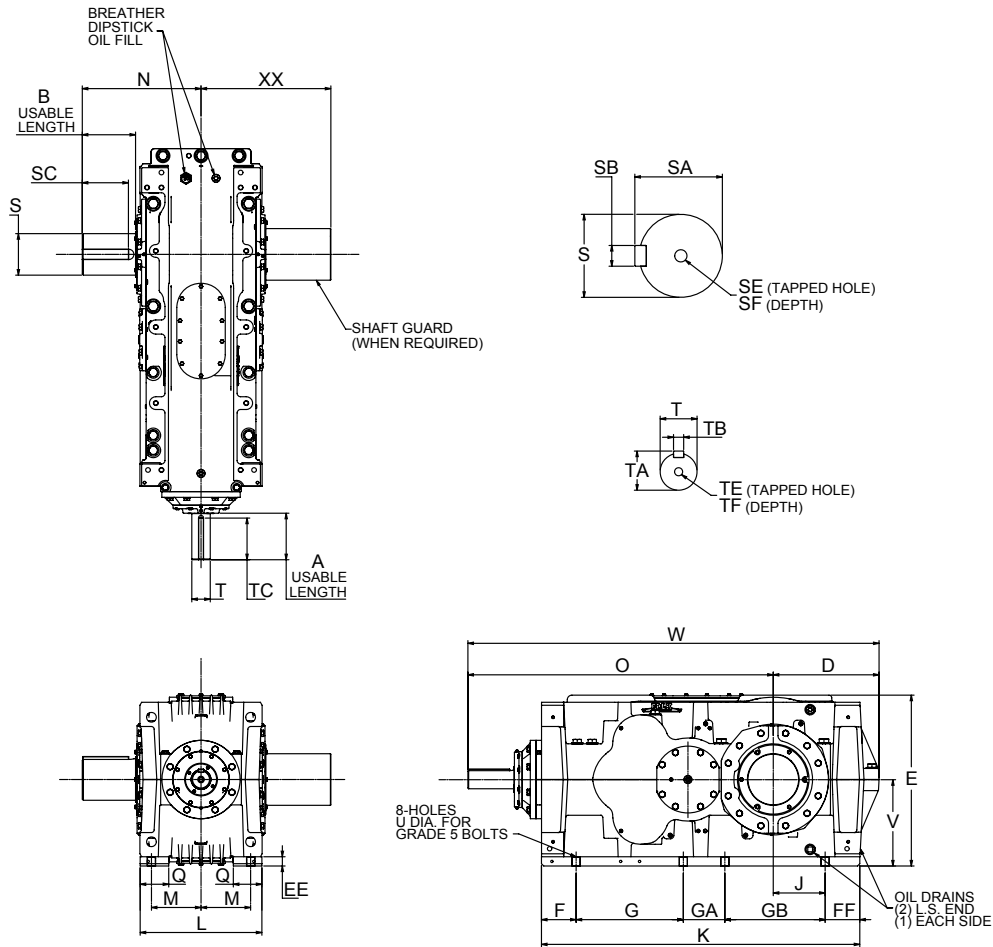
† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

● Single low-speed shaft extension is standard: double extension is special.

Type VRC2 Double Reduction Solid Low-Speed Shaft, Base Drive

Sizes 107 – 187/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | B | D | E | EE | F | FF | G | GA | GB | J | K | L | M | N• | O | Q |
|-------------|-----------|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|------|-------|
| 107 | 7,10-12,5 | 100 | 120 | 261 | 419 | 25 | 111,0 | 111,0 | 200,0 | 100 | 200,0 | 100 | 722,0 | 322 | 125,0 | 295 | 765 | 78,0 |
| 117 | 7,10-12,5 | 110 | 155 | 286 | 464 | 25 | 115,0 | 115,0 | 230,0 | 120 | 230,0 | 120 | 810,0 | 364 | 150,0 | 355 | 840 | 92,0 |
| 127 | 7,10-12,5 | 150 | 155 | 305 | 522 | 25 | 120,0 | 105,0 | 270,0 | 150 | 253,0 | 144 | 898,0 | 410 | 165,0 | 373 | 925 | 101,6 |
| 137 | 7,10-12,5 | 150 | 190 | 332 | 552 | 35 | 123,4 | 117,3 | 297,5 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 422 | 1029 | 112,7 |
| 147 | 7,10-12,5 | 155 | 190 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 430 | 1087 | 108,0 |
| 157 | 7,10-12,5 | 180 | 190 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 455 | 1215 | 114,0 |
| 167 | 7,10-12,5 | 195 | 225 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 515 | 1324 | 124,0 |
| 177 | 6,30-11,2 | 240 | 270 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 585 | 1525 | 150,0 |
| 187 | 7,10-12,5 | 240 | 270 | 559 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 290 | 1633,5 | 588 | 245,0 | 585 | 1550 | 150,0 |

| DRIVE SIZE★ | Ratios | Low-Speed Shaft† | | | | | | | High-Speed Shaft† | | | | | | U | V | W | XX | Approx. Wt. kg. |
|-------------|-----------|------------------|-------|----|-----|-----|----|-------|-------------------|----|-----|-----|----|----|-----|------|-----|------|-----------------|
| | | S* | SA | SB | SC | SE | SF | T* | TA | TB | TC | TE | TF | | | | | | |
| 107 | 7,10-12,5 | 100m6 | 105,9 | 28 | 110 | M24 | 50 | 40k6 | 42,9 | 12 | 100 | M16 | 36 | 15 | 212 | 1026 | 305 | 354 | |
| 117 | 7,10-12,5 | 110m6 | 115,9 | 28 | 140 | M24 | 50 | 50k6 | 53,4 | 14 | 110 | M16 | 36 | 19 | 236 | 1125 | 365 | 507 | |
| 127 | 7,10-12,5 | 120m6 | 126,9 | 32 | 140 | M24 | 50 | 55m6 | 58,9 | 16 | 140 | M20 | 42 | 19 | 265 | 1230 | 381 | 678 | |
| 137 | 7,10-12,5 | 130m6 | 136,8 | 32 | 180 | M24 | 50 | 60m6 | 63,8 | 18 | 150 | M20 | 42 | 24 | 280 | 1360 | 432 | 862 | |
| 147 | 7,10-12,5 | 140m6 | 147,8 | 36 | 180 | M30 | 60 | 60m6 | 63,8 | 18 | 150 | M20 | 42 | 24 | 315 | 1441 | 440 | 1100 | |
| 157 | 7,10-12,5 | 160m6 | 168,8 | 40 | 180 | M30 | 60 | 75m6 | 79,3 | 20 | 180 | M20 | 42 | 28 | 335 | 1604 | 471 | 1498 | |
| 167 | 7,10-12,5 | 180m6 | 189,8 | 45 | 200 | M30 | 60 | 80m6 | 84,8 | 22 | 180 | M20 | 42 | 35 | 375 | 1783 | 563 | 2161 | |
| 177 | 6,30-11,2 | 195m6 | 204,8 | 45 | 250 | M30 | 60 | 100m6 | 105,8 | 28 | 220 | M24 | 50 | 35 | 450 | 2109 | 612 | 2981 | |
| 187 | 7,10-12,5 | 195m6 | 204,8 | 45 | 250 | M30 | 60 | 100m6 | 105,8 | 28 | 220 | M24 | 50 | 35 | 450 | 2109 | 612 | 3047 | |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

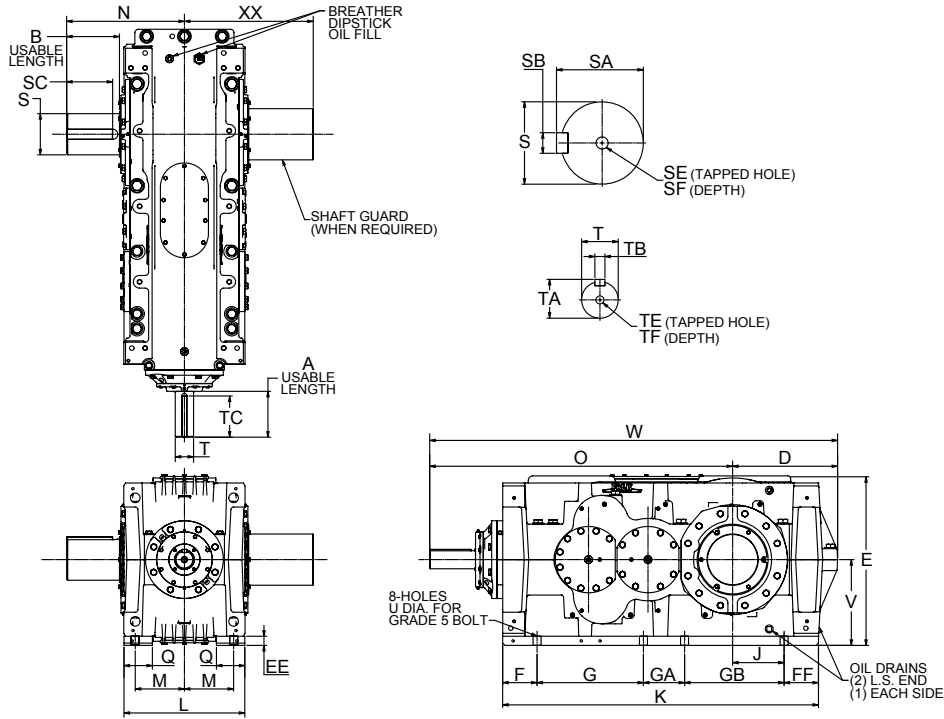
* See table 1 on page 98 for tolerance

● Single low-speed shaft extension is standard; double extension is special.

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Type VRC3 Triple Reduction Solid Low-Speed Shaft, Base Drive

Sizes 133 – 173/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | B | D | E | EE | F | FF | G | GA | GB | J | K | L | M | N• | O | Q |
|-------------|----------|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|------|-------|
| 133 | 14,0-125 | 150 | 190 | 332 | 552 | 35 | 123,4 | 117,3 | 297,5 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 422 | 1029 | 112,7 |
| 143 | 14,0-125 | 155 | 190 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 430 | 1087 | 108,0 |
| 153 | 14,0-125 | 180 | 190 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 455 | 1215 | 114,0 |
| 163 | 14,0-125 | 195 | 225 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 515 | 1324 | 124,0 |
| 173 | 12,5-112 | 240 | 270 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 585 | 1525 | 150,0 |

| DRIVE SIZE★ | Ratios | Low-Speed Shaft† | | | | | | High-Speed Shaft† | | | | | | U | V | W | XX | Approx. Wt. kg. | |
|-------------|-----------|------------------|-------|----|-----|-----|----|-------------------|-------|----|-----|-----|-----|----|-----|------|------|-----------------|------|
| | | S* | SA | SB | SC | SE | SF | T* | TA | TB | TC | TE | TF | | | | | | |
| 133 | 14,0-71,0 | | | | | | | 55m6 | 58,9 | 16 | | M20 | 42 | 24 | 280 | 1360 | 432 | 861 | |
| | 80,0-125 | 130m6 | 136,8 | 32 | 180 | M24 | 50 | 40k6 | 42,9 | 12 | 150 | M16 | 36 | | | | | | |
| 143 | 14,0-71,0 | | | | | | | 60m6 | 63,8 | 18 | 142 | M20 | 42 | 24 | 315 | 1441 | 440 | 1106 | |
| | 80,0-125 | 140m6 | 147,8 | 36 | 180 | M30 | 60 | 50k6 | 53,4 | 14 | 140 | | | | | | | | |
| 153 | 14,0-71,0 | | | | | | | 70m6 | 74,3 | 20 | | 180 | M20 | 42 | 28 | 335 | 1604 | 471 | 1530 |
| | 80,0-125 | 160m6 | 168,8 | 40 | 180 | M30 | 60 | 55m6 | 58,9 | 16 | | | | | | | | | |
| 163 | 14,0-71,0 | | | | | | | 80m6 | 84,8 | 22 | | 180 | M20 | 42 | 35 | 375 | 1783 | 563 | 2108 |
| | 80,0-125 | 180m6 | 189,8 | 45 | 200 | M30 | 60 | 60m6 | 63,8 | 18 | | | | | | | | | |
| 173 | 12,5-63,0 | | | | | | | 110m6 | 115,8 | 28 | | 220 | M24 | 50 | 35 | 450 | 2109 | 612 | 3034 |
| | 71,0-112 | 195m6 | 204,8 | 45 | 250 | M30 | 60 | 70m6 | 74,3 | 20 | | M20 | 42 | | | | | | |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

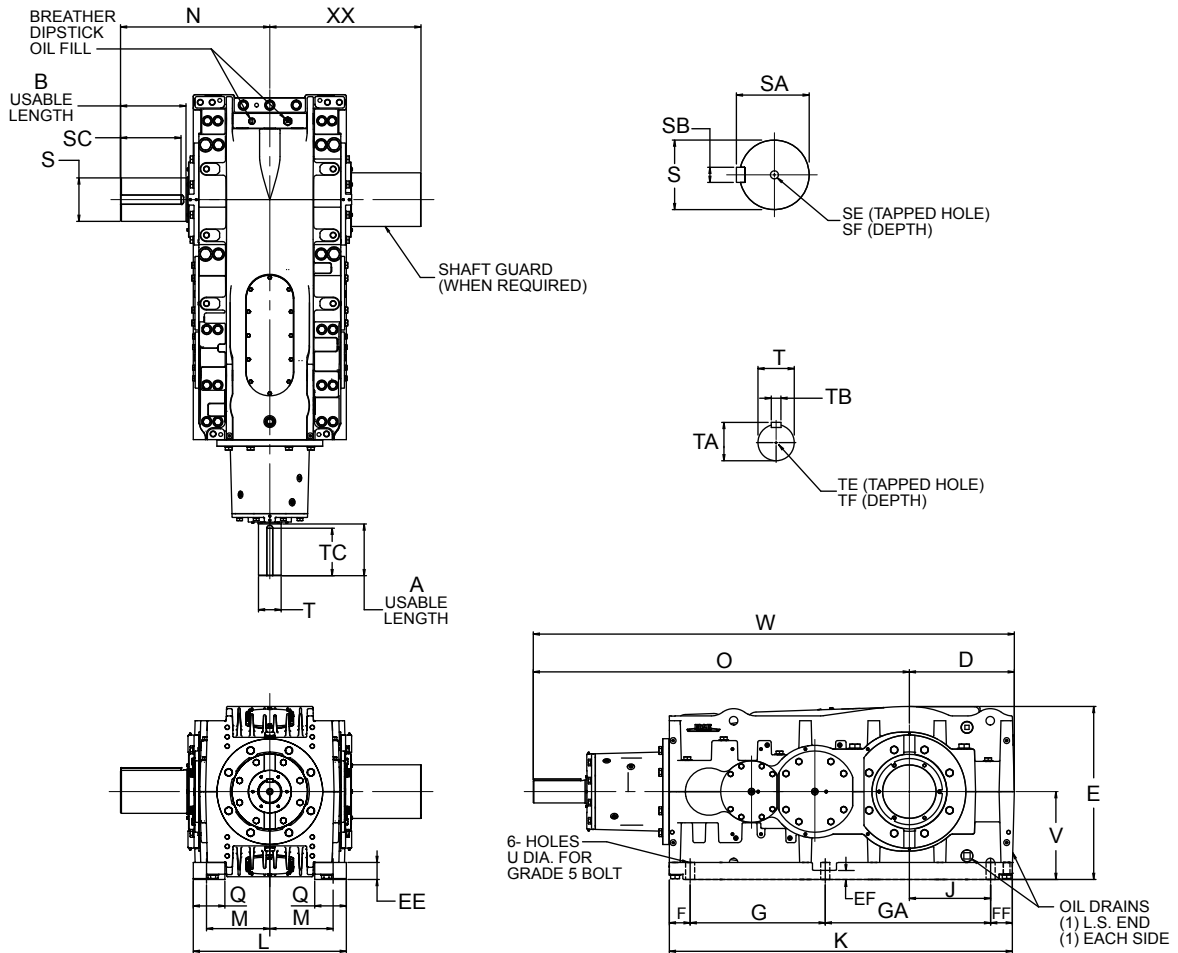
† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

● Single low-speed shaft extension is standard; double extension is special.

Type VRC3 Triple Reduction Solid Low-Speed Shaft, Base Drive

Sizes 193 – 223/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | B | D | E | EE | EF | F | FF | G | GA | J | K | L | M | N* | O | Q |
|-------------|----------|-----|-----|-----|------|-----|----|-----|-----|-----|------|-----|------|-----|-----|-----|------|-------|
| 193 | 8,00-112 | 270 | 350 | 596 | 916 | 90 | 55 | 109 | 115 | 715 | 875 | 470 | 1814 | 810 | 335 | 790 | 1950 | 167,3 |
| 203 | 9,00-125 | 270 | 350 | 556 | 916 | 90 | 55 | 109 | 115 | 715 | 875 | 430 | 1814 | 810 | 335 | 790 | 1990 | 167,3 |
| 213 | 8,00-112 | 270 | 410 | 700 | 1084 | 115 | 75 | 134 | 157 | 830 | 1005 | 530 | 2126 | 900 | 375 | 895 | 2085 | 172,8 |
| 223 | 9,00-125 | 270 | 410 | 650 | 1084 | 115 | 75 | 134 | 157 | 830 | 1005 | 480 | 2126 | 900 | 375 | 895 | 2135 | 172,8 |

| DRIVE SIZE★ | Ratios | Low-Speed Shaft† | | | | | | High-Speed Shaft† | | | | | | U | V | W | XX | Approx, Wt, lb, |
|-------------|-----------|------------------|-------|----|-----|-----|----|-------------------|-------|-----|-----|-----|----|----|-----|------|-----|-----------------|
| | | S* | SA | SB | SC | SE | SF | T* | TA | TB | TC | TE | TF | | | | | |
| 193 | 8,00-63,0 | 230m6 | 240,8 | 50 | 320 | M30 | 60 | 120m6 | 126,8 | 32 | 250 | M24 | 50 | 48 | 465 | 2546 | 800 | 5007 |
| | 85m6 | | | | | | | 89,8 | 22 | M20 | | 42 | | | | | | |
| 203 | 9,00-71,0 | 230m6 | 240,8 | 50 | 320 | M30 | 60 | 120m6 | 126,8 | 32 | 250 | M24 | 50 | 48 | 465 | 2546 | 800 | 5342 |
| | 80,0-125 | | | | | | | 85m6 | 89,8 | 22 | | M20 | 42 | | | | | |
| 213 | 8,00-63,0 | 270m6 | 281,8 | 63 | 360 | M30 | 60 | 130m6 | 136,8 | 32 | 250 | M24 | 50 | 55 | 550 | 2785 | 907 | 7038 |
| | 71,0-112 | | | | | | | 100m6 | 105,8 | 28 | | M24 | 50 | | | | | |
| 223 | 9,00-71,0 | 270m6 | 281,8 | 63 | 360 | M30 | 60 | 130m6 | 136,8 | 32 | 250 | M24 | 50 | 55 | 550 | 2785 | 907 | 7412 |
| | 80,0-125 | | | | | | | 100m6 | 105,8 | 28 | | M24 | 50 | | | | | |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

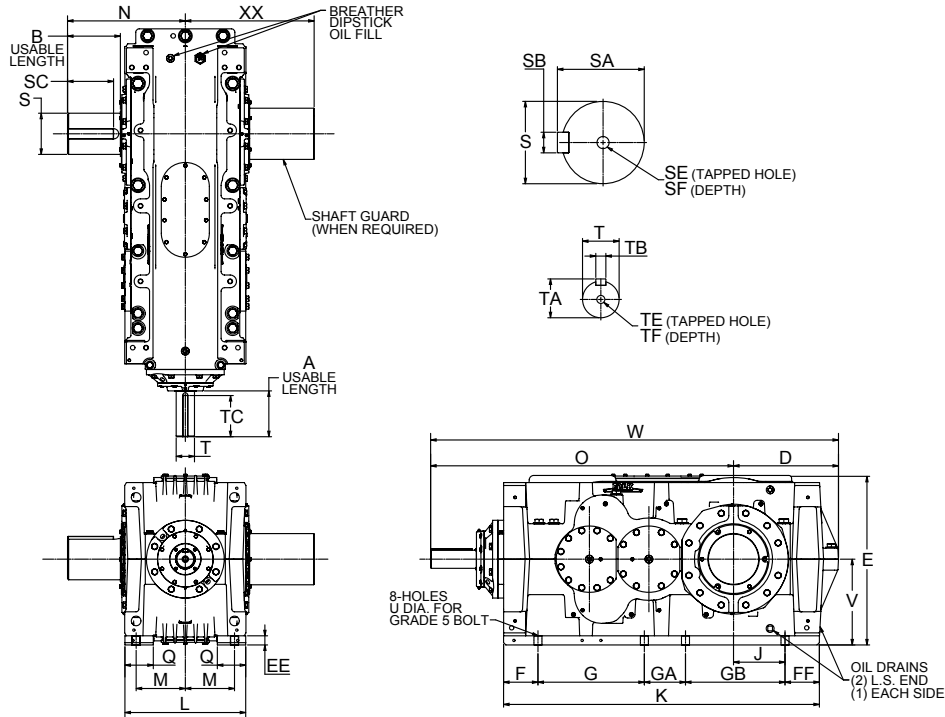
† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

● Single low-speed shaft extension is standard; double extension is special.

Type VRC3 Triple Reduction Solid Low-Speed Shaft, Base Drive

Sizes 145 – 175/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | B | D | E | EE | F | FF | G | GA | GB | J | K | L | M | N• | O | Q |
|-------------|----------|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|------|-------|
| 145 | 14,0-125 | 155 | 190 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 430 | 1087 | 108,0 |
| 155 | 14,0-125 | 180 | 190 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 455 | 1215 | 114,0 |
| 165 | 14,0-125 | 195 | 225 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 515 | 1324 | 124,0 |
| 175 | 12,5-112 | 240 | 270 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 585 | 1525 | 150,0 |

| DRIVE SIZE★ | Ratios | Low-Speed Shaft† | | | | | | High-Speed Shaft† | | | | | | U | V | W | XX | Approx. Wt. kg. |
|-------------|-----------|------------------|-------|----|-----|-----|----|-------------------|-------|----|-----|-----|----|----|-----|------|-----|-----------------|
| | | S* | SA | SB | SC | SE | SF | T* | TA | TB | TC | TE | TF | | | | | |
| 145 | 14,0-71,0 | 140m6 | 147,8 | 36 | 180 | M30 | 60 | 60m6 | 63,8 | 18 | 142 | M20 | 42 | 24 | 315 | 1441 | 440 | 1106 |
| | 80,0-125 | | | | | | | 50k6 | 53,4 | 14 | 140 | | | | | | | |
| 155 | 14,0-71,0 | 160m6 | 168,8 | 40 | 180 | M30 | 60 | 70m6 | 74,3 | 20 | 180 | M20 | 42 | 28 | 335 | 1604 | 471 | 1530 |
| | 80,0-125 | | | | | | | 55m6 | 58,9 | 16 | | | | | | | | |
| 165 | 14,0-71,0 | 180m6 | 189,8 | 45 | 200 | M30 | 60 | 80m6 | 84,8 | 22 | 180 | M20 | 42 | 35 | 375 | 1783 | 563 | 2108 |
| | 80,0-125 | | | | | | | 60m6 | 63,8 | 18 | | | | | | | | |
| 175 | 12,5-63,0 | 195m6 | 204,8 | 45 | 250 | M30 | 60 | 110m6 | 115,8 | 28 | 220 | M24 | 50 | 35 | 450 | 2109 | 612 | 3034 |
| | 71,0-112 | | | | | | | 70m6 | 74,3 | 20 | | M20 | 42 | | | | | |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

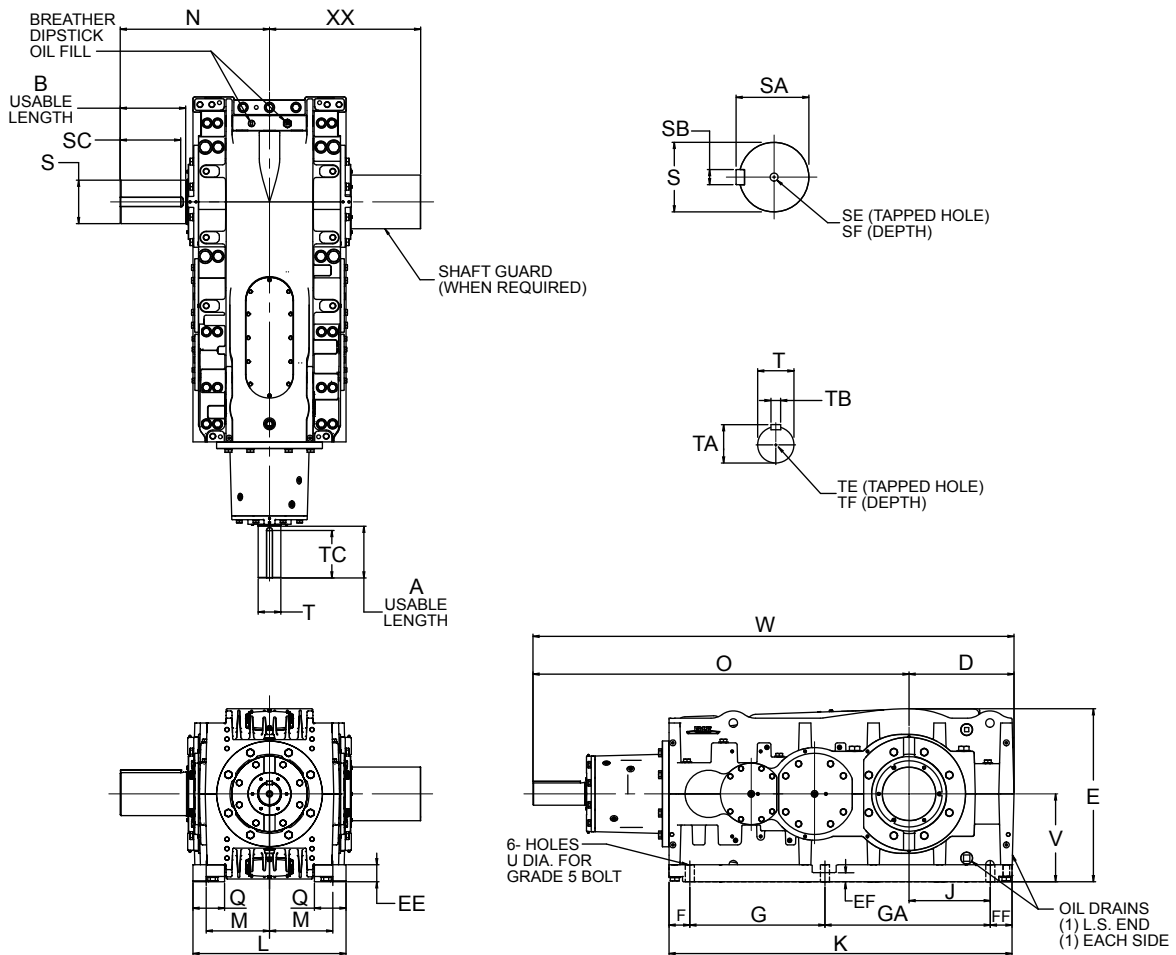
† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

● Single low-speed shaft extension is standard; double extension is special.

Type VRC3 Triple Reduction Solid Low-Speed Shaft, Base Drive

Sizes 195 – 225/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | B | D | E | EE | EF | F | FF | G | GA | J | K | L | M | N• | O | Q |
|-------------|----------|-----|-----|-----|------|-----|----|-----|-----|-----|------|-----|------|-----|-----|-----|------|-------|
| 195 | 8,00-112 | 270 | 350 | 596 | 916 | 90 | 55 | 109 | 115 | 715 | 875 | 470 | 1814 | 810 | 335 | 790 | 1950 | 167,3 |
| 215 | 8,00-112 | 270 | 410 | 700 | 1084 | 115 | 75 | 134 | 157 | 830 | 1005 | 530 | 2126 | 900 | 375 | 895 | 2085 | 172,8 |
| 225 | 9,00-125 | 270 | 410 | 650 | 1084 | 115 | 75 | 134 | 157 | 830 | 1005 | 480 | 2126 | 900 | 375 | 895 | 2135 | 172,8 |

| DRIVE SIZE★ | Ratios | Low-Speed Shaft† | | | | | | High-Speed Shaft† | | | | | | U | V | W | XX | Approx. Wt. lb. |
|-------------|-----------|------------------|-------|----|-----|-----|----|-------------------|-------|-----|-----|-----|----|----|-----|------|-----|-----------------|
| | | S* | SA | SB | SC | SE | SF | T* | TA | TB | TC | TE | TF | | | | | |
| 195 | 8,00-63,0 | 230m6 | 240,8 | 50 | 320 | M30 | 60 | 120m6 | 126,8 | 32 | 250 | M24 | 50 | 48 | 465 | 2546 | 800 | 5007 |
| | 85m6 | | | | | | | 89,8 | 22 | M20 | | 42 | | | | | | |
| 215 | 8,00-63,0 | 270m6 | 281,8 | 63 | 360 | M30 | 60 | 130m6 | 136,8 | 32 | 250 | M24 | 50 | 55 | 550 | 2785 | 907 | 7038 |
| | 100m6 | | | | | | | 105,8 | 28 | | | | | | | | | |
| 225 | 9,00-71,0 | 270m6 | 281,8 | 63 | 360 | M30 | 60 | 130m6 | 136,8 | 32 | 250 | M24 | 50 | 55 | 550 | 2785 | 907 | 7412 |
| | 100m6 | | | | | | | 105,8 | 28 | | | | | | | | | |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

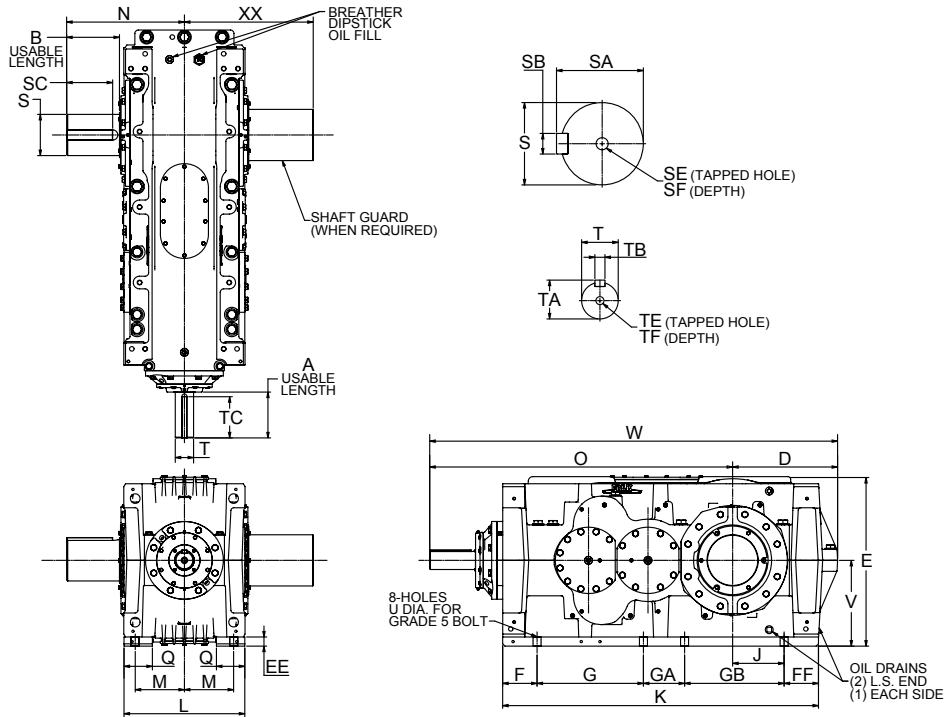
† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

● Single low-speed shaft extension is standard; double extension is special.

Type VRC3 Triple Reduction Solid Low-Speed Shaft, Base Drive

Sizes 107 – 187/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | B | D | E | EE | F | FF | G | GA | GB | J | K | L | M | N• | O | Q |
|-------------|----------|-----|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|-----|------|-------|
| 107 | 14,0-125 | 100 | 120 | 261 | 419 | 25 | 111,0 | 111,0 | 200,0 | 100 | 200,0 | 100 | 722,0 | 322 | 125,0 | 295 | 765 | 78,0 |
| 117 | 14,0-125 | 110 | 155 | 286 | 464 | 25 | 115,0 | 115,0 | 230,0 | 120 | 230,0 | 120 | 810,0 | 364 | 150,0 | 355 | 840 | 92,0 |
| 127 | 14,0-125 | 150 | 155 | 305 | 522 | 25 | 120,0 | 105,0 | 270,0 | 150 | 253,0 | 144 | 898,0 | 410 | 165,0 | 373 | 925 | 101,6 |
| 137 | 14,0-125 | 150 | 190 | 332 | 552 | 35 | 123,4 | 117,3 | 297,5 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 422 | 1029 | 112,7 |
| 147 | 14,0-125 | 155 | 190 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 430 | 1087 | 108,0 |
| 157 | 14,0-125 | 180 | 190 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 455 | 1215 | 114,0 |
| 167 | 14,0-125 | 195 | 225 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 515 | 1324 | 124,0 |
| 177 | 12,5-112 | 240 | 270 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 585 | 1525 | 150,0 |
| 187 | 14,0-125 | 240 | 270 | 559 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 290 | 1633,5 | 588 | 245,0 | 585 | 1550 | 150,0 |

| DRIVE SIZE★ | Ratios | Low-Speed Shaft† | | | | | | | High-Speed Shaft† | | | | | | U | V | W | XX | Approx. Wt. kg. |
|-------------|-----------|------------------|-------|----|-----|-----|----|-------|-------------------|-----|-----|-----|----|----|-----|-------|-----|------|-----------------|
| | | S* | SA | SB | SC | SE | SF | T* | TA | TB | TC | TE | TF | | | | | | |
| 107 | 14,0-71,0 | 100m6 | 105,9 | 28 | 110 | M24 | 50 | 40k6 | 42,9 | 12 | 100 | M16 | 36 | 15 | 212 | 1026 | 305 | 352 | |
| | 24j6 | | | | | | | 26,9 | 8 | M8 | | 19 | | | | | | | |
| 117 | 14,0-71,0 | 110m6 | 115,9 | 28 | 140 | M24 | 50 | 42k6 | 44,9 | 12 | 123 | M16 | 36 | 19 | 236 | 1125 | 365 | 513 | |
| | 30j6 | | | | | | | 32,9 | 8 | 120 | M10 | 22 | | | | | | | |
| 127 | 14,0-71,0 | 120m6 | 126,9 | 32 | 140 | M24 | 50 | 50k6 | 53,4 | 14 | 140 | M16 | 36 | 19 | 265 | 1,230 | 381 | 667 | |
| | 35k6 | | | | | | | 37,9 | 10 | M12 | | 28 | | | | | | | |
| 137 | 14,0-71,0 | 130m6 | 136,8 | 32 | 180 | M24 | 50 | 55m6 | 58,9 | 16 | 150 | M20 | 42 | 24 | 280 | 1,360 | 432 | 861 | |
| | 40k6 | | | | | | | 42,9 | 12 | M16 | | 36 | | | | | | | |
| 147 | 14,0-71,0 | 140m6 | 147,8 | 36 | 180 | M30 | 60 | 60m6 | 63,8 | 18 | 142 | M20 | 42 | 24 | 315 | 1,441 | 440 | 1106 | |
| | 50k6 | | | | | | | 53,4 | 14 | 140 | | | | | | | | | |
| 157 | 14,0-71,0 | 160m6 | 168,8 | 40 | 180 | M30 | 60 | 70m6 | 74,3 | 20 | 180 | M20 | 42 | 28 | 335 | 1,604 | 471 | 1530 | |
| | 55m6 | | | | | | | 58,9 | 16 | | | | | | | | | | |
| 167 | 14,0-71,0 | 180m6 | 189,8 | 45 | 200 | M30 | 60 | 80m6 | 84,8 | 22 | 180 | M20 | 42 | 35 | 375 | 1,783 | 563 | 2108 | |
| | 60m6 | | | | | | | 63,8 | 18 | | | | | | | | | | |
| 177 | 12,5-63,0 | 195m6 | 204,8 | 45 | 250 | M30 | 60 | 110m6 | 115,8 | 28 | 220 | M24 | 50 | 35 | 450 | 2,109 | 612 | 3034 | |
| | 70m6 | | | | | | | 74,3 | 20 | M20 | | 42 | | | | | | | |
| 187 | 14,0-71,0 | 195m6 | 204,8 | 45 | 250 | M30 | 60 | 110m6 | 115,8 | 28 | 220 | M24 | 50 | 35 | 450 | 2,109 | 612 | 3089 | |
| | 70m6 | | | | | | | 74,3 | 20 | M20 | | 42 | | | | | | | |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

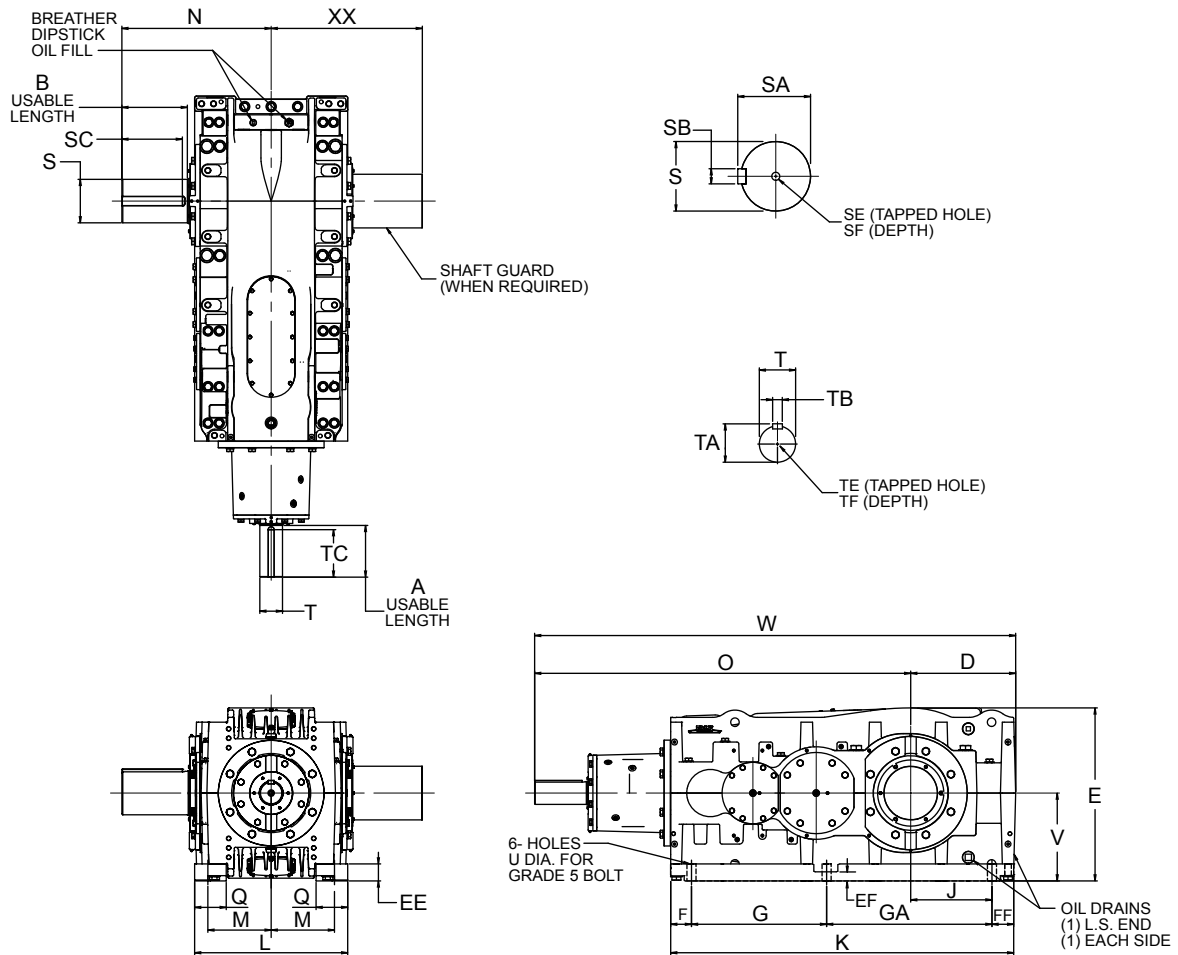
† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

● Single low-speed shaft extension is standard; double extension is special.

Type VRC3 Triple Reduction Solid Low-Speed Shaft, Base Drive

Sizes 197 – 227/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | B | D | E | EE | EF | F | FF | G | GA | J | K | L | M | N• | O | Q |
|-------------|----------|-----|-----|-----|------|-----|----|-----|-----|-----|------|-----|------|-----|-----|-----|------|-------|
| 197 | 8,00-112 | 270 | 350 | 596 | 916 | 90 | 55 | 109 | 115 | 715 | 875 | 470 | 1814 | 810 | 335 | 790 | 1950 | 167,3 |
| 207 | 9,00-125 | 270 | 350 | 556 | 916 | 90 | 55 | 109 | 115 | 715 | 875 | 430 | 1814 | 810 | 335 | 790 | 1990 | 167,3 |
| 217 | 8,00-112 | 270 | 410 | 700 | 1084 | 115 | 75 | 134 | 157 | 830 | 1005 | 530 | 2126 | 900 | 375 | 895 | 2085 | 172,8 |
| 227 | 9,00-125 | 270 | 410 | 650 | 1084 | 115 | 75 | 134 | 157 | 830 | 1005 | 480 | 2126 | 900 | 375 | 895 | 2135 | 172,8 |

| DRIVE SIZE★ | Ratios | Low-Speed Shaft† | | | | | | High-Speed Shaft† | | | | | | U | V | W | XX | Approx. Wt. lb. |
|-------------|-----------|------------------|-------|----|-----|-----|----|-------------------|-------|-----|-----|-----|----|----|-----|------|-----|-----------------|
| | | S* | SA | SB | SC | SE | SF | T* | TA | TB | TC | TE | TF | | | | | |
| 197 | 8,00-63,0 | 230m6 | 240,8 | 50 | 320 | M30 | 60 | 120m6 | 126,8 | 32 | 250 | M24 | 50 | 48 | 465 | 2546 | 800 | 5007 |
| | 85m6 | | | | | | | 89,8 | 22 | M20 | | 42 | | | | | | |
| 207 | 9,00-71,0 | 230m6 | 240,8 | 50 | 320 | M30 | 60 | 120m6 | 126,8 | 32 | 250 | M24 | 50 | 48 | 465 | 2546 | 800 | 5342 |
| | 85m6 | | | | | | | 89,8 | 22 | M20 | | 42 | | | | | | |
| 217 | 8,00-63,0 | 270m6 | 281,8 | 63 | 360 | M30 | 60 | 130m6 | 136,8 | 32 | 250 | M24 | 50 | 55 | 550 | 2785 | 907 | 7038 |
| | 100m6 | | | | | | | 105,8 | 28 | M24 | | 50 | | | | | | |
| 227 | 9,00-71,0 | 270m6 | 281,8 | 63 | 360 | M30 | 60 | 130m6 | 136,8 | 32 | 250 | M24 | 50 | 55 | 550 | 2785 | 907 | 7412 |
| | 100m6 | | | | | | | 105,8 | 28 | M24 | | 50 | | | | | | |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

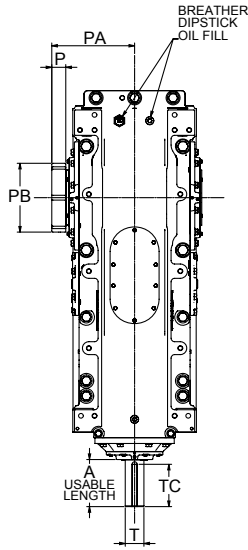
† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

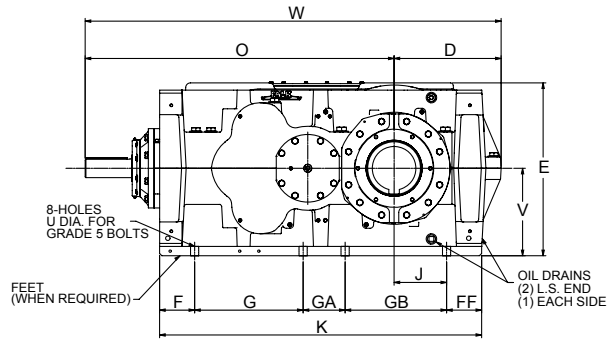
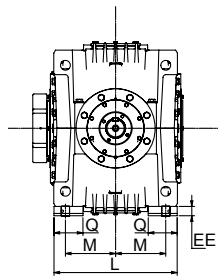
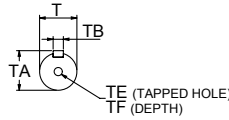
• Single low-speed shaft extension is standard; double extension is special.

Type VRT2 Double Reduction Hollow Low-Speed Shaft with TA Taper Bushing

Sizes 133 – 173/Dimensions — Millimeters



Refer to page 238-239 for standard bushing bores.



| DRIVE SIZE★ | Ratios | A | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PA | PB | Q |
|-------------|-----------|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|------|-----|-----|-----|-------|
| 133 | 7,10-12,5 | 150 | 332 | 552 | 35 | 123,4 | 117,3 | 297,5 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 1029 | 57 | 303 | 240 | 112,7 |
| 143 | 7,10-12,5 | 155 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 1087 | 57 | 300 | 260 | 108,0 |
| 153 | 7,10-12,5 | 180 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 1215 | 59 | 335 | 280 | 114,0 |
| 163 | 7,10-12,5 | 195 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 1324 | 60 | 355 | 295 | 124,0 |
| 173 | 6,30-11,2 | 240 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 1525 | ... | 331 | 279 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | | U | V | W | Approx. Wt. kg. |
|-------------|-----------|-------------------|-------|----|-----|-----|----|----|-----|------|------|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | |
| 133 | 7,10-12,5 | 60m6 | 63,8 | 18 | 150 | M20 | 42 | 24 | 280 | 1360 | 800 | |
| 143 | 7,10-12,5 | 60m6 | 63,8 | 18 | 150 | M20 | 42 | 24 | 315 | 1441 | 1027 | |
| 153 | 7,10-12,5 | 75m6 | 79,3 | 20 | 180 | M20 | 42 | 28 | 335 | 1604 | 1395 | |
| 163 | 7,10-12,5 | 80m6 | 84,8 | 22 | 180 | M20 | 42 | 35 | 375 | 1783 | 2005 | |
| 173 | 6,30-11,2 | 100m6 | 105,8 | 28 | 220 | M24 | 50 | 35 | 450 | 2109 | 2795 | |

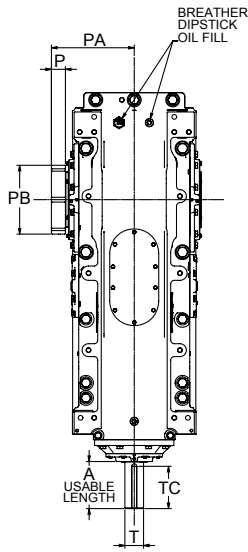
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

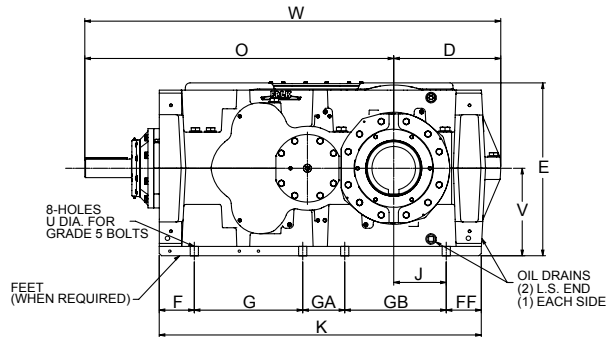
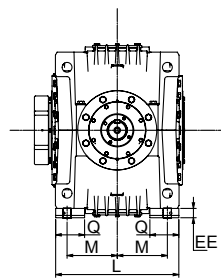
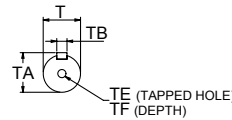
* See table 1 on page 98 for tolerance

Type VRT2 Double Reduction Hollow Low-Speed Shaft with TA Taper Bushing

Sizes 145 – 175/Dimensions — Millimeters



Refer to page 238-239 for standard bushing bores.



| DRIVE SIZE★ | Ratios | A | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PA | PB | Q |
|-------------|-----------|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|------|-----|-----|-----|-------|
| 145 | 7,10-12,5 | 155 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 1087 | 57 | 300 | 260 | 108,0 |
| 155 | 7,10-12,5 | 180 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 1215 | 59 | 335 | 280 | 114,0 |
| 165 | 7,10-12,5 | 195 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 1324 | 60 | 355 | 295 | 124,0 |
| 175 | 6,30-11,2 | 240 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 1525 | ... | 331 | 279 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | V | W | Approx. Wt. kg. |
|-------------|-----------|-------------------|-------|----|-----|-----|----|----|-----|------|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | |
| 145 | 7,10-12,5 | 60m6 | 63,8 | 18 | 150 | M20 | 42 | 24 | 315 | 1441 | 1027 |
| 155 | 7,10-12,5 | 75m6 | 79,3 | 20 | 180 | M20 | 42 | 28 | 335 | 1604 | 1395 |
| 165 | 7,10-12,5 | 80m6 | 84,8 | 22 | 180 | M20 | 42 | 35 | 375 | 1783 | 2005 |
| 175 | 6,30-11,2 | 100m6 | 105,8 | 28 | 220 | M24 | 50 | 35 | 450 | 2109 | 2795 |

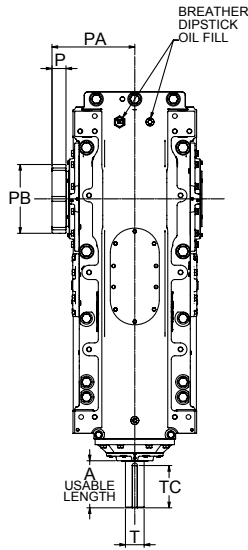
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

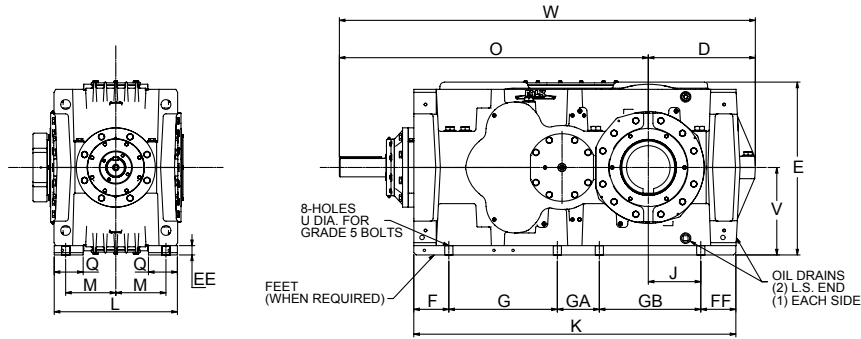
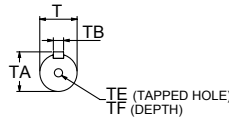
* See table 1 on page 98 for tolerance

Type VRT2 Double Reduction Hollow Low-Speed Shaft with TA Taper Bushing

Sizes 107 – 187/Dimensions — Millimeters



Refer to page 238-239 for standard bushing bores.



| DRIVE SIZE★ | Ratios | A | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PA | PB | Q |
|-------------|-----------|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|--------|-----|-----|-----|-------|
| 107 | 7,10-12,5 | 100 | 261 | 419 | 25 | 111,0 | 111,0 | 200,0 | 100 | 200,0 | 100 | 722,0 | 322 | 125,0 | 765 | 56 | 242 | 185 | 78,0 |
| 117 | 7,10-12,5 | 110 | 286 | 464 | 25 | 115,0 | 115,0 | 230,0 | 120 | 230,0 | 120 | 810,0 | 364 | 150,0 | 840 | 56 | 267 | 205 | 92,0 |
| 127 | 7,10-12,5 | 150 | 305 | 522 | 25 | 120,0 | 105,0 | 270,0 | 150 | 253,0 | 144 | 898,0 | 410 | 165,0 | 925 | 56 | 278 | 225 | 101,6 |
| 137 | 7,10-12,5 | 150 | 332 | 552 | 35 | 123,4 | 117,3 | 297,5 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 1029 | 57 | 303 | 240 | 112,7 |
| 147 | 7,10-12,5 | 155 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 1087 | 57 | 300 | 260 | 108,0 |
| 157 | 7,10-12,5 | 180 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 1215 | 59 | 335 | 280 | 114,0 |
| 167 | 7,10-12,5 | 195 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 1324 | 60 | 355 | 295 | 124,0 |
| 177 | 6,30-11,2 | 240 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 1525 | ... | 331 | 279 | 150,0 |
| 187 | 7,10-12,5 | 240 | 559 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 290 | 1633,5 | 588 | 245,0 | 1550,3 | ... | 329 | 279 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | | U | V | W | Approx. Wt. kg. |
|-------------|-----------|-------------------|-------|----|-----|-----|----|----|-----|------|------|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | |
| 107 | 7,10-12,5 | 40k6 | 42,9 | 12 | 100 | M16 | 36 | 15 | 212 | 1026 | 318 | |
| 117 | 7,10-12,5 | 50k6 | 53,4 | 14 | 110 | M16 | 36 | 19 | 236 | 1125 | 451 | |
| 127 | 7,10-12,5 | 55m6 | 58,9 | 16 | 140 | M20 | 42 | 19 | 265 | 1230 | 637 | |
| 137 | 7,10-12,5 | 60m6 | 63,8 | 18 | 150 | M20 | 42 | 24 | 280 | 1360 | 800 | |
| 147 | 7,10-12,5 | 60m6 | 63,8 | 18 | 150 | M20 | 42 | 24 | 315 | 1441 | 1027 | |
| 157 | 7,10-12,5 | 75m6 | 79,3 | 20 | 180 | M20 | 42 | 28 | 335 | 1604 | 1395 | |
| 167 | 7,10-12,5 | 80m6 | 84,8 | 22 | 180 | M20 | 42 | 35 | 375 | 1783 | 2005 | |
| 177 | 6,30-11,2 | 100m6 | 105,8 | 28 | 220 | M24 | 50 | 35 | 450 | 2109 | 2795 | |
| 187 | 7,10-12,5 | 100m6 | 105,8 | 28 | 220 | M24 | 50 | 35 | 450 | 2109 | 2863 | |

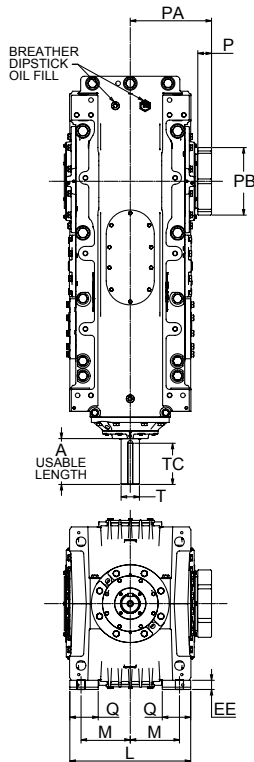
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R73-1969, Form B. Tapped center hole to DIN 332, threads 6H.

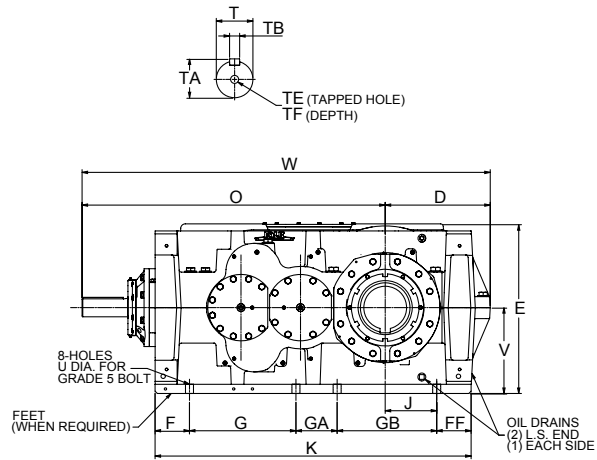
* See table 1 on page 98 for tolerance

Type VRT3 Triple Reduction Hollow Low-Speed Shaft with TA Taper Bushing

Sizes 133 – 173/Dimensions — Millimeters



Refer to page 238-239 for standard bushing bores.



| DRIVE SIZE★ | Ratios | A | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PA | PB | Q |
|-------------|----------|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|------|-----|-----|-----|-------|
| 133 | 14,0-125 | 150 | 332 | 552 | 35 | 123,4 | 117,3 | 297,5 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 1029 | 57 | 303 | 240 | 112,7 |
| 143 | 14,0-125 | 155 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 1087 | 57 | 300 | 260 | 108,0 |
| 153 | 14,0-125 | 180 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 1215 | 59 | 335 | 280 | 114,0 |
| 163 | 14,0-125 | 195 | 459 | 746 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 1324 | 60 | 355 | 295 | 124,0 |
| 173 | 12,5-112 | 240 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 1525 | --- | 331 | 279 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | V | W | Approx. Wt. kg. |
|-------------|-----------|-------------------|-------|----|-----|-----|----|----|-----|------|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | |
| 133 | 14,0-71,0 | 55m6 | 58,9 | 16 | 150 | M20 | 42 | 24 | 280 | 1360 | 799 |
| | 80,0-125 | 40k6 | 42,9 | 12 | | M16 | 36 | | | | |
| 143 | 14,0-71,0 | 60m6 | 63,8 | 18 | 142 | M20 | 42 | 24 | 315 | 1441 | 1032 |
| | 80,0-125 | 50k6 | 53,4 | 14 |  |  |  |  |  |  |  | 140 |
| 153 | 14,0-71,0 | 70m6 | 74,3 | 20 | 180 | M20 | 42 | 28 | 335 | 1604 | 1426 |
| | 80,0-125 | 55m6 | 58,9 | 16 | | | | | | | |
| 163 | 14,0-71,0 | 80m6 | 84,8 | 22 | 180 | M20 | 42 | 35 | 375 | 1783 | 1952 |
| | 80,0-125 | 60m6 | 63,8 | 18 | | | | | | | |
| 173 | 12,5-63,0 | 110m6 | 115,8 | 28 | 220 | M24 | 50 | 35 | 450 | 2109 | 2848 |
| | 71,0-112 | 70m6 | 74,3 | 20 | | M20 | 42 | | | | |

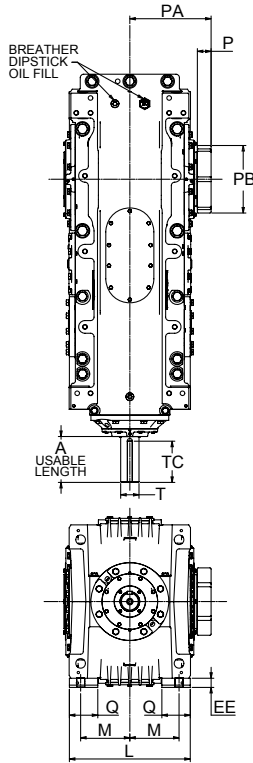
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

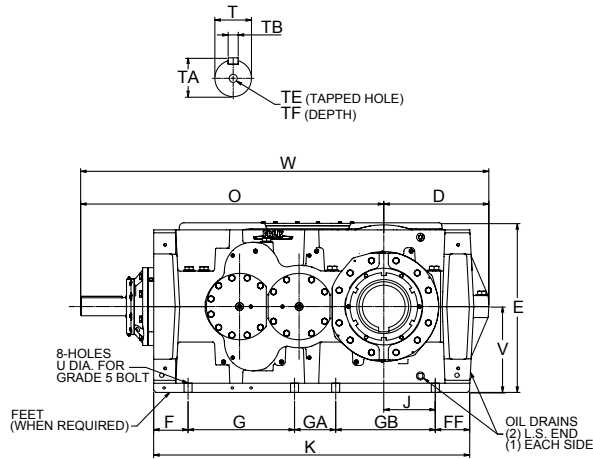
* See table 1 on page 98 for tolerance

Type VRT3 Triple Reduction Hollow Low-Speed Shaft with TA Taper Bushing

Sizes 145 – 175/Dimensions — Millimeters



Refer to page 238-239 for standard bushing bores.



| DRIVE SIZE★ | Ratios | A | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PA | PB | Q |
|-------------|----------|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|------|-----|-----|-----|-------|
| 145 | 14,0-125 | 155 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 1087 | 57 | 300 | 260 | 108,0 |
| 155 | 14,0-125 | 180 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 1215 | 59 | 335 | 280 | 114,0 |
| 165 | 14,0-125 | 195 | 459 | 746 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 1324 | 60 | 355 | 295 | 124,0 |
| 175 | 12,5-112 | 240 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 1525 | --- | 331 | 279 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | V | W | Approx. Wt. kg. |
|-------------|-----------|-------------------|-------|----|-----|-----|----|----|-----|------|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | |
| 145 | 14,0-71,0 | 60m6 | 63,8 | 18 | 142 | M20 | 42 | 24 | 315 | 1441 | 1032 |
| | 80,0-125 | 50k6 | 53,4 | 14 | 140 | | | | | | |
| 155 | 14,0-71,0 | 70m6 | 74,3 | 20 | 180 | M20 | 42 | 28 | 335 | 1604 | 1426 |
| | 80,0-125 | 55m6 | 58,9 | 16 | | | | | | | |
| 165 | 14,0-71,0 | 80m6 | 84,8 | 22 | 180 | M20 | 42 | 35 | 375 | 1783 | 1952 |
| | 80,0-125 | 60m6 | 63,8 | 18 | | | | | | | |
| 175 | 12,5-63,0 | 110m6 | 115,8 | 28 | 220 | M24 | 50 | 35 | 450 | 2109 | 2848 |
| | 71,0-112 | 70m6 | 74,3 | 20 | | M20 | 42 | | | | |

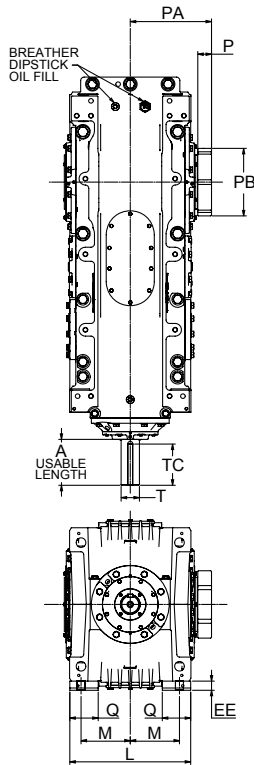
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

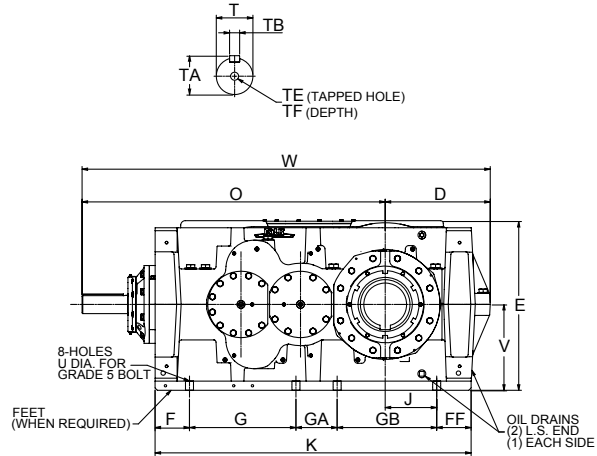
* See table 1 on page 98 for tolerance

Type VRT3 Triple Reduction Hollow Low-Speed Shaft with TA Taper Bushing

Sizes 107 – 187/Dimensions — Millimeters



Refer to page 238-239 for standard bushing bores.



| DRIVE SIZE★ | Ratios | A | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PA | PB | Q |
|-------------|----------|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|------|-----|-----|-----|-------|
| 107 | 14,0-125 | 100 | 261 | 419 | 25 | 111,0 | 111,0 | 200,0 | 100 | 200,0 | 100 | 722,0 | 322 | 125,0 | 765 | 56 | 242 | 185 | 78,0 |
| 117 | 14,0-125 | 110 | 286 | 464 | 25 | 115,0 | 115,0 | 230,0 | 120 | 230,0 | 120 | 810,0 | 364 | 150,0 | 840 | 56 | 267 | 205 | 92,0 |
| 127 | 14,0-125 | 150 | 305 | 522 | 25 | 120,0 | 105,0 | 270,0 | 150 | 253,0 | 144 | 898,0 | 410 | 165,0 | 925 | 56 | 278 | 225 | 101,6 |
| 137 | 14,0-125 | 150 | 332 | 552 | 35 | 123,4 | 117,3 | 297,5 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 1029 | 57 | 303 | 240 | 112,7 |
| 147 | 14,0-125 | 155 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 1087 | 57 | 300 | 260 | 108,0 |
| 157 | 14,0-125 | 180 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 1215 | 59 | 335 | 280 | 114,0 |
| 167 | 14,0-125 | 195 | 459 | 746 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 1324 | 60 | 355 | 295 | 124,0 |
| 177 | 12,5-112 | 240 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 1525 | --- | 331 | 279 | 150,0 |
| 187 | 14,0-125 | 240 | 559 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 290 | 1633,5 | 588 | 245,0 | 1550 | --- | 331 | 279 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | V | W | Approx. Wt. kg. |
|-------------|-----------|-------------------|-------|----|-----|-----|----|----|-----|------|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | |
| 107 | 14,0-71,0 | 40k6 | 42,9 | 12 | 100 | M16 | 36 | 15 | 212 | 1026 | 316 |
| | 80,0-125 | 24j6 | 26,9 | 8 | | M8 | 19 | | | | |
| 117 | 14,0-71,0 | 42k6 | 44,9 | 12 | 123 | M16 | 36 | 19 | 236 | 1125 | 457 |
| | 80,0-125 | 30j6 | 32,9 | 8 | 120 | M10 | 22 | | | | |
| 127 | 14,0-71,0 | 50k6 | 53,4 | 14 | 140 | M16 | 36 | 19 | 265 | 1230 | 625 |
| | 80,0-125 | 35k6 | 37,9 | 10 | | M12 | 28 | | | | |
| 137 | 14,0-71,0 | 55m6 | 58,9 | 16 | 150 | M20 | 42 | 24 | 280 | 1360 | 799 |
| | 80,0-125 | 40k6 | 42,9 | 12 | | M16 | 36 | | | | |
| 147 | 14,0-71,0 | 60m6 | 63,8 | 18 | 142 | M20 | 42 | 24 | 315 | 1441 | 1032 |
| | 80,0-125 | 50k6 | 53,4 | 14 | 140 | | | | | | |
| 157 | 14,0-71,0 | 70m6 | 74,3 | 20 | 180 | M20 | 42 | 28 | 335 | 1604 | 1426 |
| | 80,0-125 | 55m6 | 58,9 | 16 | | | | | | | |
| 167 | 14,0-71,0 | 80m6 | 84,8 | 22 | 180 | M20 | 42 | 35 | 375 | 1783 | 1952 |
| | 80,0-125 | 60m6 | 63,8 | 18 | | | | | | | |
| 177 | 12,5-63,0 | 110m6 | 115,8 | 28 | 220 | M24 | 50 | 35 | 450 | 2109 | 2848 |
| | 71,0-112 | 70m6 | 74,3 | 20 | | M20 | 42 | | | | |
| 187 | 14,0-71,0 | 110m6 | 115,8 | 28 | 220 | M24 | 50 | 35 | 450 | 2109 | 2905 |
| | 80,0-125 | 70m6 | 74,3 | 20 | | M20 | 42 | | | | |

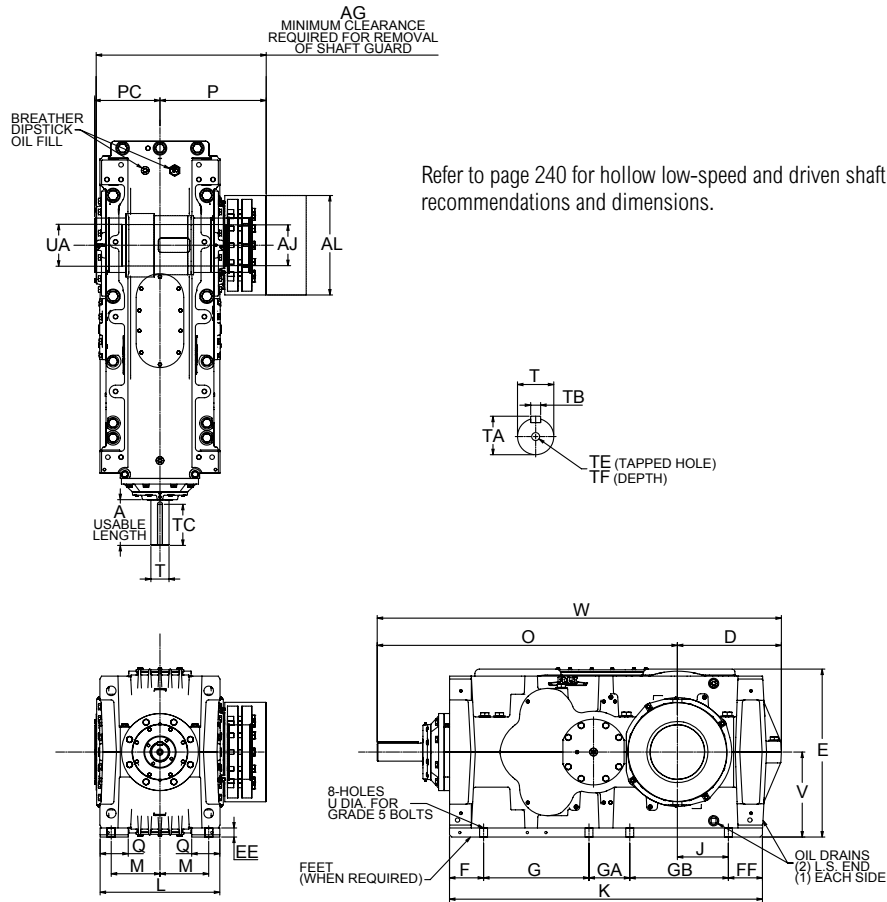
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

Type VRJ2 Double Reduction Hollow Low-Speed Shaft with Shrink Disc

Sizes 133 – 173/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | AG | AJ* | AL | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PC | Q |
|-------------|-----------|-----|------|--------|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|------|-----|-----|-------|
| 133 | 7,10-12,5 | 150 | 763 | 135 J7 | 342 | 332 | 552 | 35 | 123,4 | 117,3 | 297,5 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 1029 | 348 | 216 | 112,7 |
| 143 | 7,10-12,5 | 155 | 808 | 150 J7 | 384 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 1087 | 389 | 237 | 108,0 |
| 153 | 7,10-12,5 | 180 | 876 | 165 J7 | 404 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 1215 | 428 | 247 | 114,0 |
| 163 | 7,10-12,5 | 195 | 933 | 180 J7 | 439 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 1324 | 469 | 288 | 124,0 |
| 173 | 6,30-11,2 | 240 | 1034 | 200 J7 | 475 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 1525 | 518 | 317 | 150,0 |

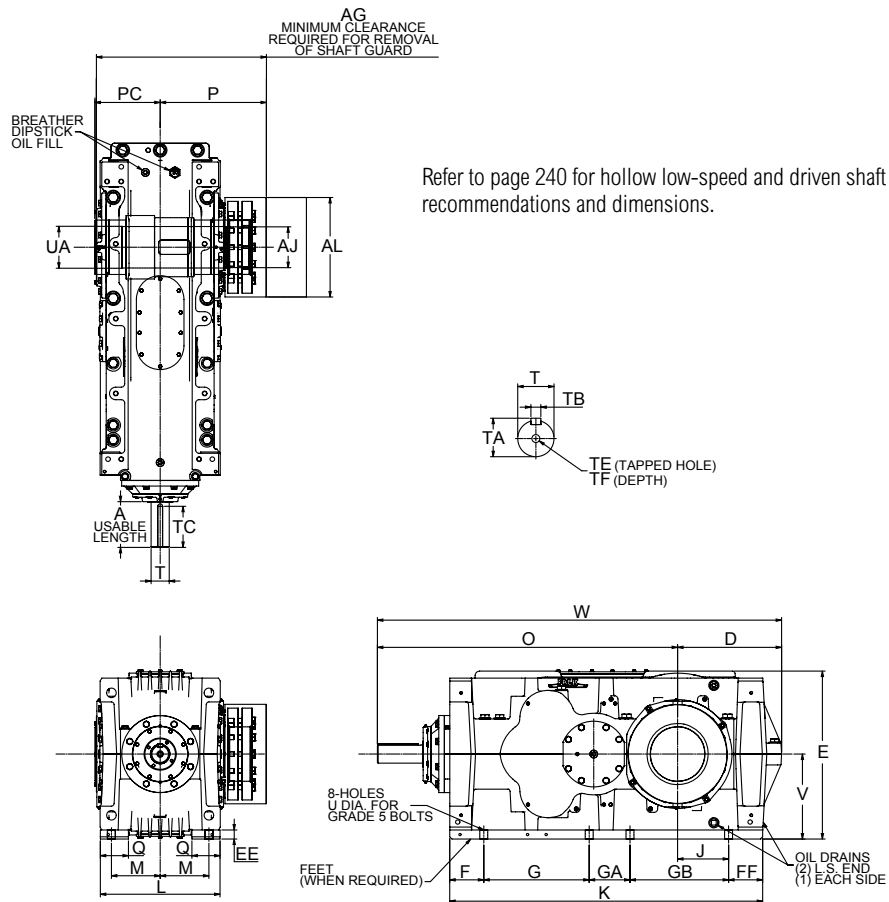
| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | Approx. Wt. kg. |
|-------------|-----------|-------------------|-------|----|-----|-----|----|----|--------|-----|------|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | |
| 133 | 7,10-12,5 | 60m6 | 63,8 | 18 | 150 | M20 | 42 | 24 | 140 H7 | 280 | 1360 | 800 |
| 143 | 7,10-12,5 | 60m6 | 63,8 | 18 | 150 | M20 | 42 | 24 | 155 H7 | 315 | 1441 | 1027 |
| 153 | 7,10-12,5 | 75m6 | 79,3 | 20 | 180 | M20 | 42 | 28 | 170 H7 | 335 | 1604 | 1395 |
| 163 | 7,10-12,5 | 80m6 | 84,8 | 22 | 180 | M20 | 42 | 35 | 185 H7 | 375 | 1783 | 2005 |
| 173 | 6,30-11,2 | 100m6 | 105,8 | 28 | 220 | M24 | 50 | 35 | 210 H7 | 450 | 2109 | 2795 |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R73-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

Type VRJ2 Double Reduction Hollow Low-Speed Shaft with Shrink Disc Sizes 145 – 175/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | AG | AJ* | AL | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PC | Q |
|-------------|-----------|-----|------|--------|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|------|-----|-----|-------|
| 145 | 7,10-12,5 | 155 | 808 | 150 J7 | 384 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 1087 | 389 | 237 | 108,0 |
| 155 | 7,10-12,5 | 180 | 876 | 165 J7 | 404 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 1215 | 428 | 247 | 114,0 |
| 165 | 7,10-12,5 | 195 | 933 | 180 J7 | 439 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 1324 | 469 | 288 | 124,0 |
| 175 | 6,30-11,2 | 240 | 1034 | 200 J7 | 475 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 1525 | 518 | 317 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | Approx. Wt. kg. |
|-------------|-----------|-------------------|-------|----|-----|-----|----|----|--------|-----|------|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | |
| 145 | 7,10-12,5 | 60m6 | 63,8 | 18 | 150 | M20 | 42 | 24 | 155 H7 | 315 | 1441 | 1027 |
| 155 | 7,10-12,5 | 75m6 | 79,3 | 20 | 180 | M20 | 42 | 28 | 170 H7 | 335 | 1604 | 1395 |
| 165 | 7,10-12,5 | 80m6 | 84,8 | 22 | 180 | M20 | 42 | 35 | 185 H7 | 375 | 1783 | 2005 |
| 175 | 6,30-11,2 | 100m6 | 105,8 | 28 | 220 | M24 | 50 | 35 | 210 H7 | 450 | 2109 | 2795 |

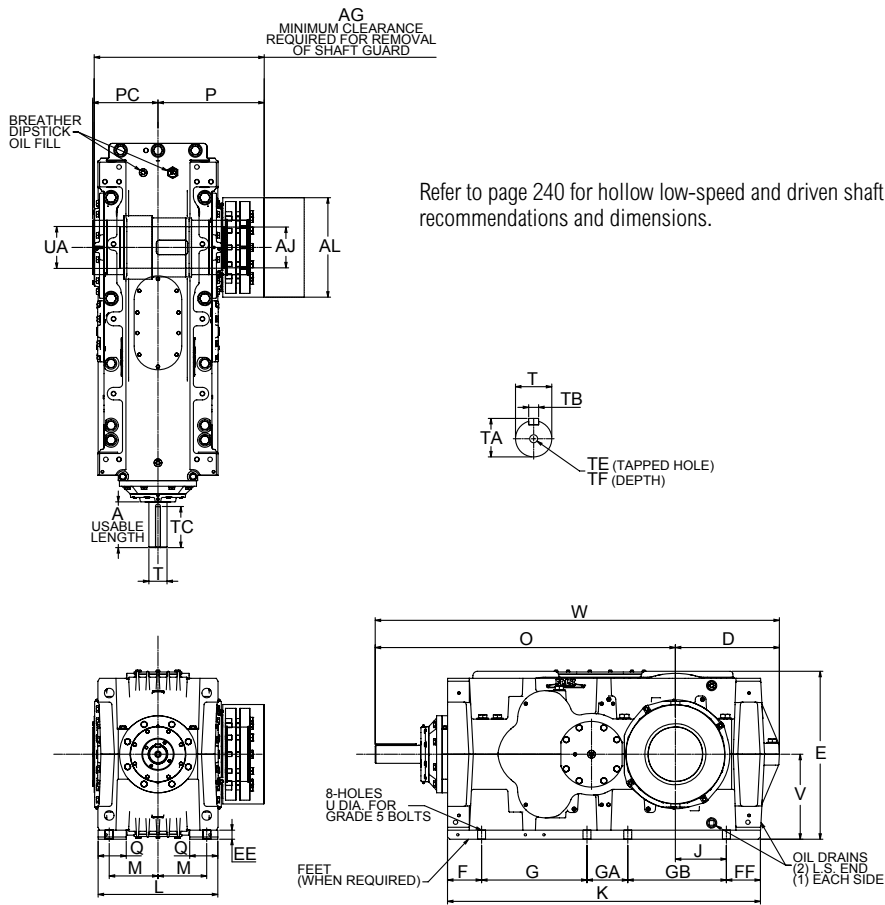
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† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

Type VRJ2 Double Reduction Hollow Low-Speed Shaft with Shrink Disc

Sizes 107 – 187/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | AG | AJ* | AL | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PC | Q |
|-------------|-----------|-----|------|--------|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|------|-----|-----|-------|
| 107 | 7,10-12,5 | 100 | 545 | 85 J7 | 264 | 261 | 419 | 25 | 111,0 | 111,0 | 200,0 | 100 | 200,0 | 100 | 722,0 | 322 | 125,0 | 765 | 269 | 175 | 78,0 |
| 117 | 7,10-12,5 | 110 | 631 | 105 J7 | 299 | 286 | 464 | 25 | 115,0 | 115,0 | 230,0 | 120 | 230,0 | 120 | 810,0 | 364 | 150,0 | 840 | 310 | 199 | 92,0 |
| 127 | 7,10-12,5 | 150 | 673 | 125 J7 | 311 | 305 | 522 | 25 | 120,0 | 105,0 | 270,0 | 150 | 253,0 | 144 | 898,0 | 410 | 165,0 | 925 | 330 | 216 | 101,6 |
| 137 | 7,10-12,5 | 150 | 763 | 135 J7 | 342 | 332 | 552 | 35 | 123,4 | 117,3 | 297,5 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 1029 | 348 | 216 | 112,7 |
| 147 | 7,10-12,5 | 155 | 808 | 150 J7 | 384 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 1087 | 389 | 237 | 108,0 |
| 157 | 7,10-12,5 | 180 | 876 | 165 J7 | 404 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 1215 | 428 | 247 | 114,0 |
| 167 | 7,10-12,5 | 195 | 933 | 180 J7 | 439 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 1324 | 469 | 288 | 124,0 |
| 177 | 6,30-11,2 | 240 | 1034 | 200 J7 | 475 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 1525 | 518 | 317 | 150,0 |
| 187 | 7,10-12,5 | 240 | 1034 | 205 J7 | 475 | 559 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 290 | 1633,5 | 588 | 245,0 | 1550 | 518 | 317 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | Approx. Wt. kg. |
|-------------|-----------|-------------------|-------|----|-----|-----|----|----|--------|-----|------|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | |
| 107 | 7,10-12,5 | 40k6 | 42,9 | 12 | 100 | M16 | 36 | 15 | 90 H7 | 212 | 1026 | 318 |
| 117 | 7,10-12,5 | 50k6 | 53,4 | 14 | 110 | M16 | 36 | 19 | 110 H7 | 236 | 1125 | 451 |
| 127 | 7,10-12,5 | 55m6 | 58,9 | 16 | 140 | M20 | 42 | 19 | 130 H7 | 265 | 1230 | 637 |
| 137 | 7,10-12,5 | 60m6 | 63,8 | 18 | 150 | M20 | 42 | 24 | 140 H7 | 280 | 1360 | 800 |
| 147 | 7,10-12,5 | 60m6 | 63,8 | 18 | 150 | M20 | 42 | 24 | 155 H7 | 315 | 1441 | 1027 |
| 157 | 7,10-12,5 | 75m6 | 79,3 | 20 | 180 | M20 | 42 | 28 | 170 H7 | 335 | 1604 | 1395 |
| 167 | 7,10-12,5 | 80m6 | 84,8 | 22 | 180 | M20 | 42 | 35 | 185 H7 | 375 | 1783 | 2005 |
| 177 | 6,30-11,2 | 100m6 | 105,8 | 28 | 220 | M24 | 50 | 35 | 210 H7 | 450 | 2109 | 2795 |
| 187 | 7,10-12,5 | 100m6 | 105,8 | 28 | 220 | M24 | 50 | 35 | 210 H7 | 450 | 2109 | 2863 |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

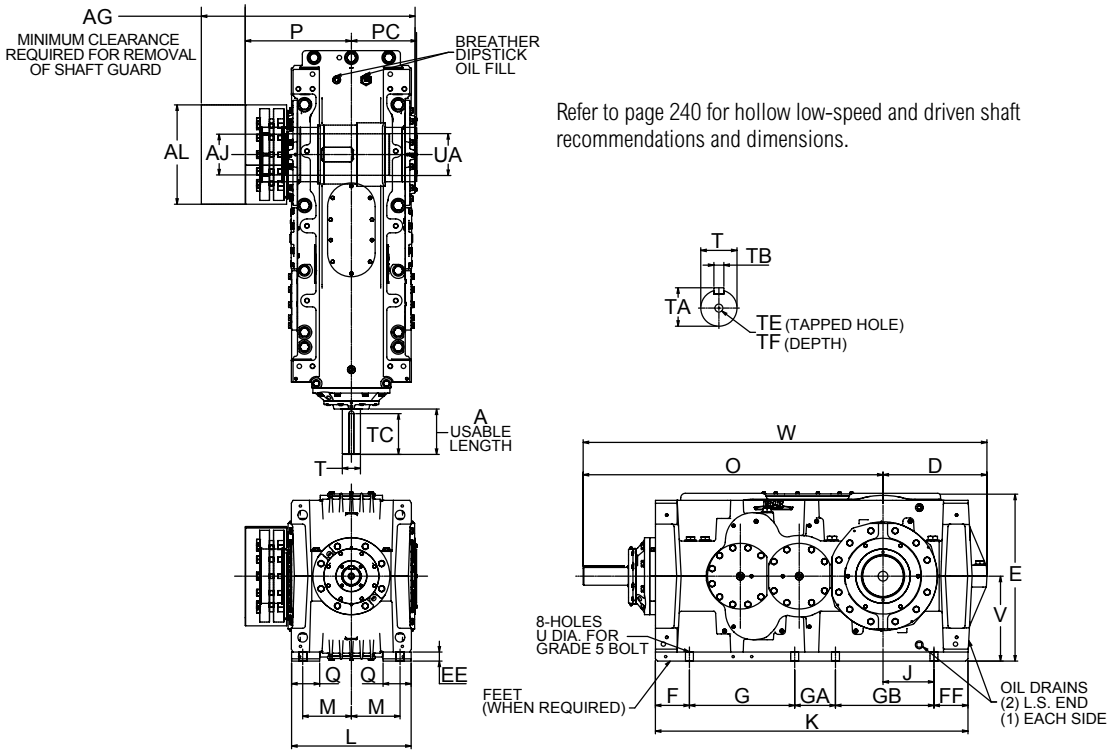
† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

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Type VRJ3 Triple Reduction Hollow Low-Speed Shaft with Shrink Disc

Sizes 133 – 173/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | AG | AJ* | AL | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PC | Q |
|-------------|----------|-----|------|--------|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|------|-----|-----|-------|
| 133 | 14,0-125 | 150 | 763 | 135 J7 | 342 | 332 | 552 | 35 | 123,4 | 117,3 | 297,5 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 1029 | 348 | 216 | 112,7 |
| 143 | 14,0-125 | 155 | 808 | 150 J7 | 384 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 1087 | 389 | 237 | 108,0 |
| 153 | 14,0-125 | 180 | 876 | 165 J7 | 404 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 1215 | 428 | 247 | 114,0 |
| 163 | 14,0-125 | 195 | 933 | 180 J7 | 439 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 1324 | 469 | 288 | 124,0 |
| 173 | 12,5-112 | 240 | 1034 | 200 J7 | 475 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 1525 | 518 | 317 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | Approx. Wt. kg. |
|-------------|-----------|-------------------|-------|----|-----|-----|----|----|--------|-----|------|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | |
| 133 | 14,0-71,0 | 55m6 | 58,9 | 16 | 150 | M20 | 42 | 24 | 140 H7 | 280 | 1360 | 799 |
| | 80,0-125 | 40k6 | 42,9 | 12 | | M16 | 36 | | | | | |
| 143 | 14,0-71,0 | 60m6 | 63,8 | 18 | 142 | M20 | 42 | 24 | 155 H7 | 315 | 1441 | 1032 |
| | 80,0-125 | 50k6 | 53,4 | 14 | 140 | | | | | | | |
| 153 | 14,0-71,0 | 70m6 | 74,3 | 20 | 180 | M20 | 42 | 28 | 170 H7 | 335 | 1604 | 1426 |
| | 80,0-125 | 55m6 | 58,9 | 16 | | | | | | | | |
| 163 | 14,0-71,0 | 80m6 | 84,8 | 22 | 180 | M20 | 42 | 35 | 185 H7 | 375 | 1783 | 1952 |
| | 80,0-125 | 60m6 | 63,8 | 18 | | | | | | | | |
| 173 | 12,5-63,0 | 110m6 | 115,8 | 28 | 220 | M24 | 50 | 35 | 210 H7 | 450 | 2109 | 2848 |
| | 71,0-112 | 70m6 | 74,3 | 20 | | M20 | 42 | | | | | |

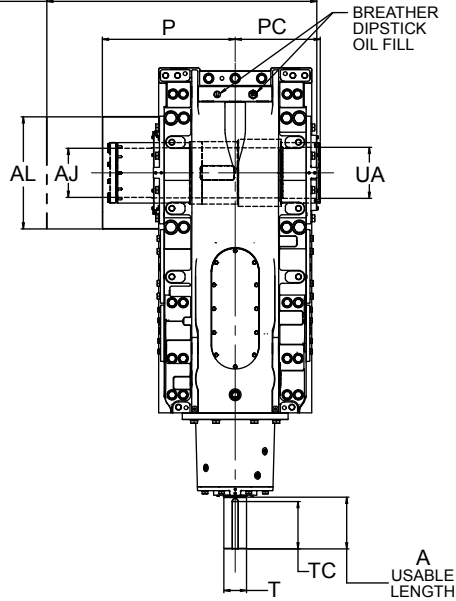
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

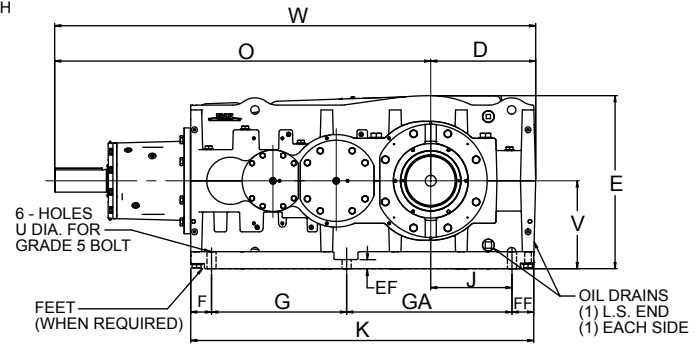
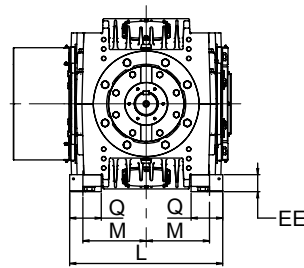
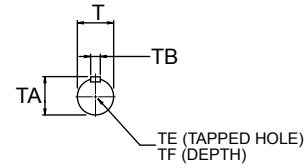
* See table 1 on page 98 for tolerance

Type VRJ3 Triple Reduction Hollow Low-Speed Shaft with Shrink Disc Sizes 203 – 223/Dimensions — Millimeters

AG
 MINIMUM CLEARANCE
 REQUIRED FOR REMOVAL
 OF SHAFT GUARD



Refer to page 241 for hollow low-speed and driven shaft recommendations and dimensions.



| DRIVE SIZE★ | Ratios | A | AG | AJ* | AL | D | E | EE | EF | F | FF | G | GA | J | K | L | M | O | P | PC | Q |
|-------------|----------|-----|------|-------|-------|-----|------|-----|----|-----|-----|-----|------|-----|------|-----|-----|------|-----|-----|-------|
| 203 | 9,00-125 | 270 | 1429 | 260J7 | 593,8 | 556 | 916 | 90 | 55 | 109 | 115 | 715 | 875 | 430 | 1814 | 810 | 335 | 1990 | 703 | 450 | 167,3 |
| 223 | 9,00-125 | 270 | 1608 | 310J7 | 678,8 | 650 | 1084 | 115 | 75 | 134 | 157 | 830 | 1005 | 480 | 2126 | 900 | 375 | 2135 | 793 | 500 | 172,8 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | Approx. Wt. lb. |
|-------------|-----------|-------------------|-------|----|-----|-----|----|----|-------|-----|------|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | |
| 203 | 9,00-71,0 | 120m6 | 126,8 | 32 | 250 | M24 | 50 | 48 | 270H7 | 465 | 2546 | 5165 |
| | 80,0-125 | 85m6 | 89,8 | 22 | | M20 | 42 | | | | | |
| 223 | 9,00-71,0 | 130m6 | 136,8 | 32 | 250 | M24 | 50 | 55 | 320H7 | 550 | 2785 | 7219 |
| | 80,0-125 | 100m6 | 105,8 | 28 | | | | | | | | |

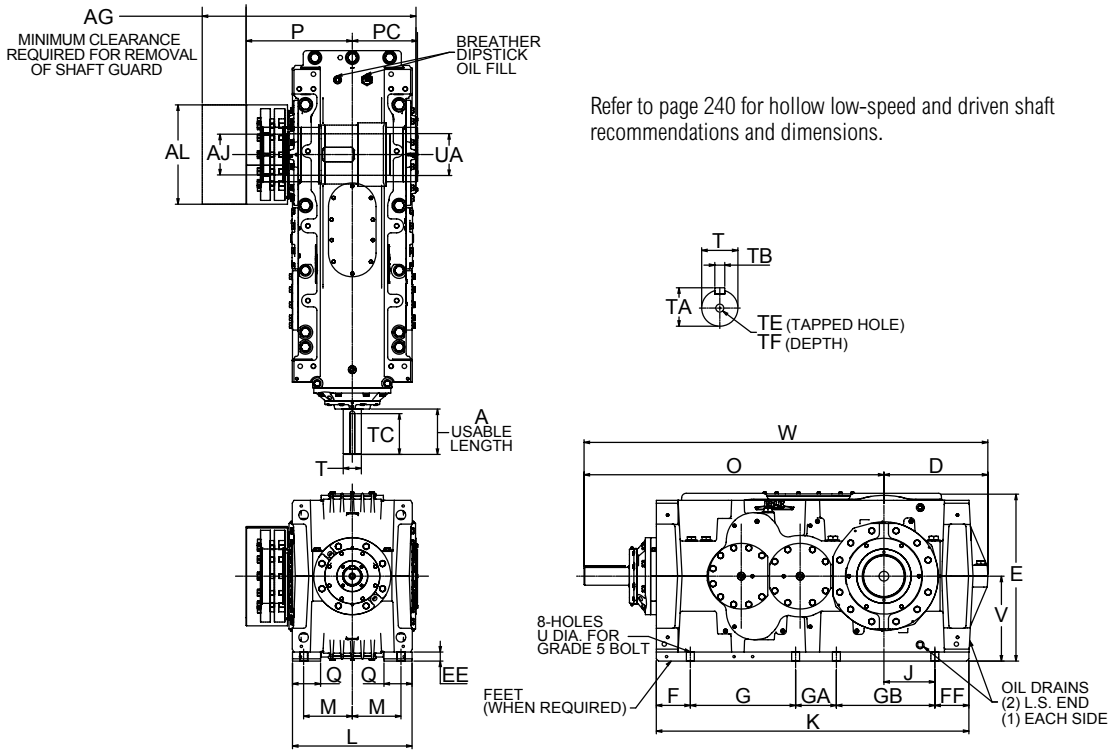
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

Type VRJ3 Triple Reduction Hollow Low-Speed Shaft with Shrink Disc

Sizes 145 – 175/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | AG | AJ* | AL | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PC | Q |
|-------------|----------|-----|------|--------|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|------|-----|-----|-------|
| 145 | 14,0-125 | 155 | 808 | 150 J7 | 384 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 1087 | 389 | 237 | 108,0 |
| 155 | 14,0-125 | 180 | 876 | 165 J7 | 404 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 1215 | 428 | 247 | 114,0 |
| 165 | 14,0-125 | 195 | 933 | 180 J7 | 439 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 1324 | 469 | 288 | 124,0 |
| 175 | 12,5-112 | 240 | 1034 | 200 J7 | 475 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 1525 | 518 | 317 | 150,0 |

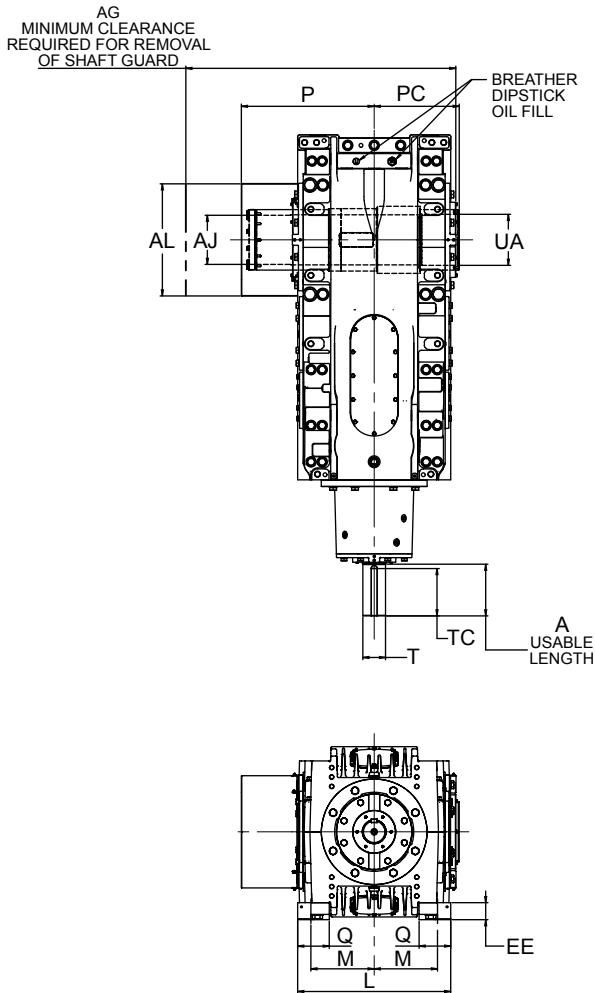
| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | Approx. Wt. kg. |
|-------------|-----------|-------------------|-------|----|-----|-----|----|----|--------|-----|------|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | |
| 145 | 14,0-71,0 | 60m6 | 63,8 | 18 | 142 | M20 | 42 | 24 | 155 H7 | 315 | 1441 | 1032 |
| | 80,0-125 | 50k6 | 53,4 | 14 | 140 | | | | | | | |
| 155 | 14,0-71,0 | 70m6 | 74,3 | 20 | 180 | M20 | 42 | 28 | 170 H7 | 335 | 1604 | 1426 |
| | 80,0-125 | 55m6 | 58,9 | 16 | | | | | | | | |
| 165 | 14,0-71,0 | 80m6 | 84,8 | 22 | 180 | M20 | 42 | 35 | 185 H7 | 375 | 1783 | 1952 |
| | 80,0-125 | 60m6 | 63,8 | 18 | | | | | | | | |
| 175 | 12,5-63,0 | 110m6 | 115,8 | 28 | 220 | M24 | 50 | 35 | 210 H7 | 450 | 2109 | 2848 |
| | 71,0-112 | 70m6 | 74,3 | 20 |  |  |  |  |  |  |  |  | M20 | 42 |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

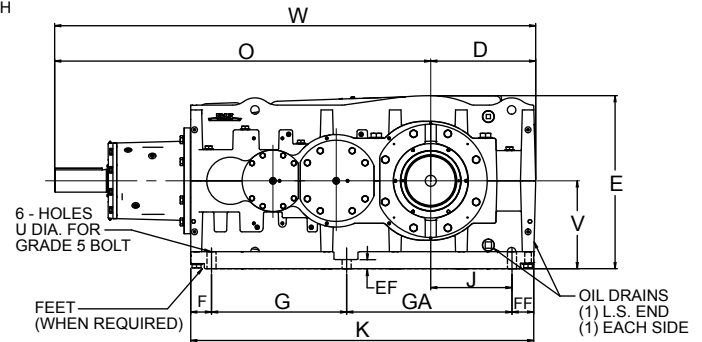
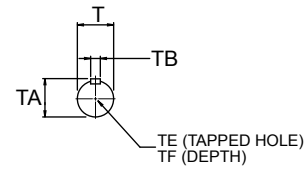
† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

Type VRJ3 Triple Reduction Hollow Low-Speed Shaft with Shrink Disc Sizes 225/Dimensions — Millimeters



Refer to page 241 for hollow low-speed and driven shaft recommendations and dimensions.



| DRIVE SIZE★ | Ratios | A | AG | AJ* | AL | D | E | EE | EF | F | FF | G | GA | J | K | L | M | O | P | PC | Q |
|-------------|----------|-----|------|-------|-------|-----|------|-----|----|-----|-----|-----|------|-----|------|-----|-----|------|-----|-----|-------|
| 225 | 9,00-125 | 270 | 1608 | 310J7 | 678,8 | 650 | 1084 | 115 | 75 | 134 | 157 | 830 | 1005 | 480 | 2126 | 900 | 375 | 2135 | 793 | 500 | 172,8 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | Approx. Wt. lb. |
|-------------|-----------|-------------------|-------|----|-----|-----|----|----|-------|-----|------|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | |
| 225 | 9,00-71,0 | 130m6 | 136,8 | 32 | 250 | M24 | 50 | 55 | 320H7 | 550 | 2785 | 7219 |
| | 80,0-125 | 100m6 | 105,8 | 28 | | | | | | | | |

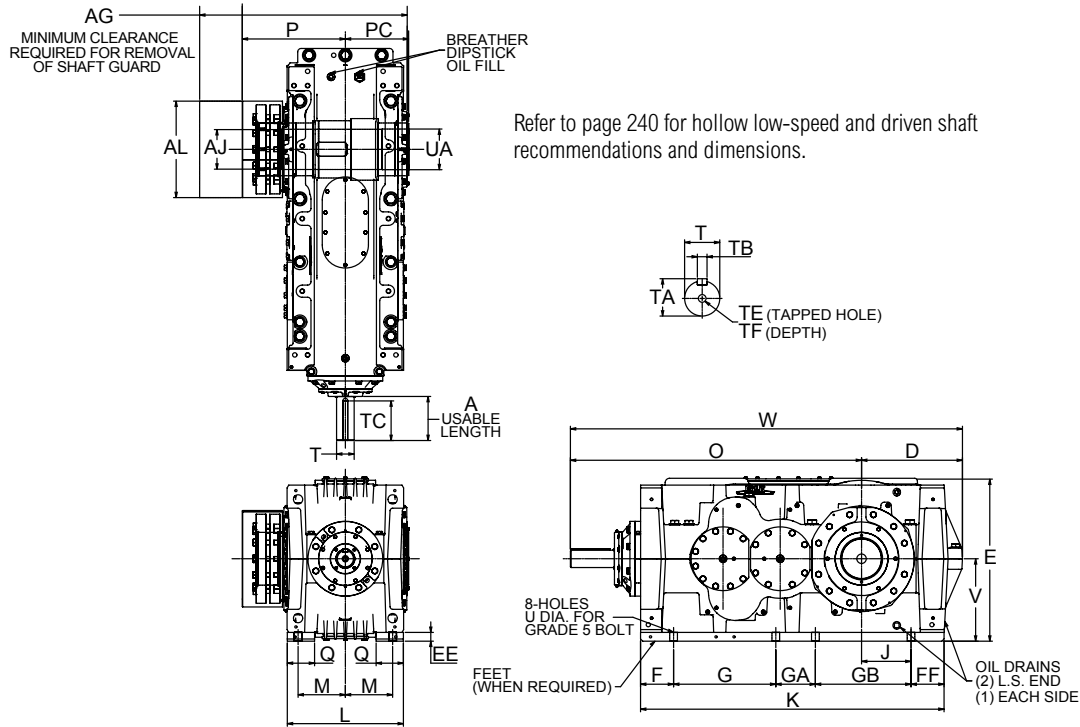
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

Type VRJ3 Triple Reduction Hollow Low-Speed Shaft with Shrink Disc

Sizes 107 – 187/Dimensions — Millimeters



| DRIVE SIZE★ | Ratios | A | AG | AJ* | AL | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PC | Q |
|-------------|----------|-----|------|--------|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|------|-----|-----|-------|
| 107 | 14,0-125 | 100 | 545 | 85 J7 | 264 | 261 | 419 | 25 | 111,0 | 111,0 | 200,0 | 100 | 200,0 | 100 | 722,0 | 322 | 125,0 | 765 | 269 | 175 | 78,0 |
| 117 | 14,0-125 | 110 | 631 | 105 J7 | 299 | 286 | 464 | 25 | 120,0 | 115,0 | 230,0 | 120 | 230,0 | 120 | 810,0 | 364 | 150,0 | 840 | 310 | 199 | 92,0 |
| 127 | 14,0-125 | 150 | 673 | 125 J7 | 311 | 305 | 522 | 25 | 120,0 | 105,0 | 270,0 | 150 | 253,0 | 144 | 898,0 | 410 | 165,0 | 925 | 330 | 216 | 101,6 |
| 137 | 14,0-125 | 150 | 763 | 135 J7 | 342 | 332 | 552 | 35 | 123,4 | 117,3 | 297,5 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 1029 | 348 | 216 | 112,7 |
| 147 | 14,0-125 | 155 | 808 | 150 J7 | 384 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 1087 | 389 | 237 | 108,0 |
| 157 | 14,0-125 | 180 | 876 | 165 J7 | 404 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 1215 | 428 | 247 | 114,0 |
| 167 | 14,0-125 | 195 | 933 | 180 J7 | 439 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 1324 | 469 | 288 | 124,0 |
| 177 | 12,5-112 | 240 | 1034 | 200 J7 | 475 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 1525 | 518 | 317 | 150,0 |
| 187 | 14,0-125 | 240 | 1034 | 205 J7 | 475 | 559 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 290 | 1633,5 | 588 | 245,0 | 1550 | 518 | 317 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | Approx. Wt. kg. |
|-------------|-----------|-------------------|-------|----|-----|-----|----|----|--------|-----|------|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | |
| 107 | 14,0-71,0 | 40k6 | 42,9 | 12 | 100 | M16 | 36 | 15 | 90 H7 | 212 | 1026 | 316 |
| | 80,0-125 | 24j6 | 26,9 | 8 | | M8 | 19 | | | | | |
| 117 | 14,0-71,0 | 42k6 | 44,9 | 12 | 123 | M16 | 36 | 19 | 110 H7 | 236 | 1125 | 457 |
| | 80,0-125 | 30j6 | 32,9 | 8 | 120 | M10 | 22 | | | | | |
| 127 | 14,0-71,0 | 50k6 | 53,4 | 14 | 140 | M16 | 36 | 19 | 130 H7 | 265 | 1230 | 625 |
| | 80,0-125 | 35k6 | 37,9 | 10 | | M12 | 28 | | | | | |
| 137 | 14,0-71,0 | 55m6 | 58,9 | 16 | 150 | M20 | 42 | 24 | 140 H7 | 280 | 1360 | 799 |
| | 80,0-125 | 40k6 | 42,9 | 12 | | M16 | 36 | | | | | |
| 147 | 14,0-71,0 | 60m6 | 63,8 | 18 | 142 | M20 | 42 | 24 | 155 H7 | 315 | 1441 | 1032 |
| | 80,0-125 | 50k6 | 53,4 | 14 | 140 | | | | | | | |
| 157 | 14,0-71,0 | 70m6 | 74,3 | 20 | 180 | M20 | 42 | 28 | 170 H7 | 335 | 1604 | 1426 |
| | 80,0-125 | 55m6 | 58,9 | 16 | | | | | | | | |
| 167 | 14,0-71,0 | 80m6 | 84,8 | 22 | 180 | M20 | 42 | 35 | 185 H7 | 375 | 1783 | 1952 |
| | 80,0-125 | 60m6 | 63,8 | 18 | | | | | | | | |
| 177 | 12,5-63,0 | 110m6 | 115,8 | 28 | 220 | M24 | 50 | 35 | 210 H7 | 450 | 2109 | 2848 |
| | 71,0-112 | 70m6 | 74,3 | 20 | | M20 | 42 | | | | | |
| 187 | 14,0-71,0 | 110m6 | 115,8 | 28 | 220 | M24 | 50 | 35 | 210 H7 | 450 | 2109 | 2905 |
| | 80,0-125 | 70m6 | 74,3 | 20 | | M20 | 42 | | | | | |

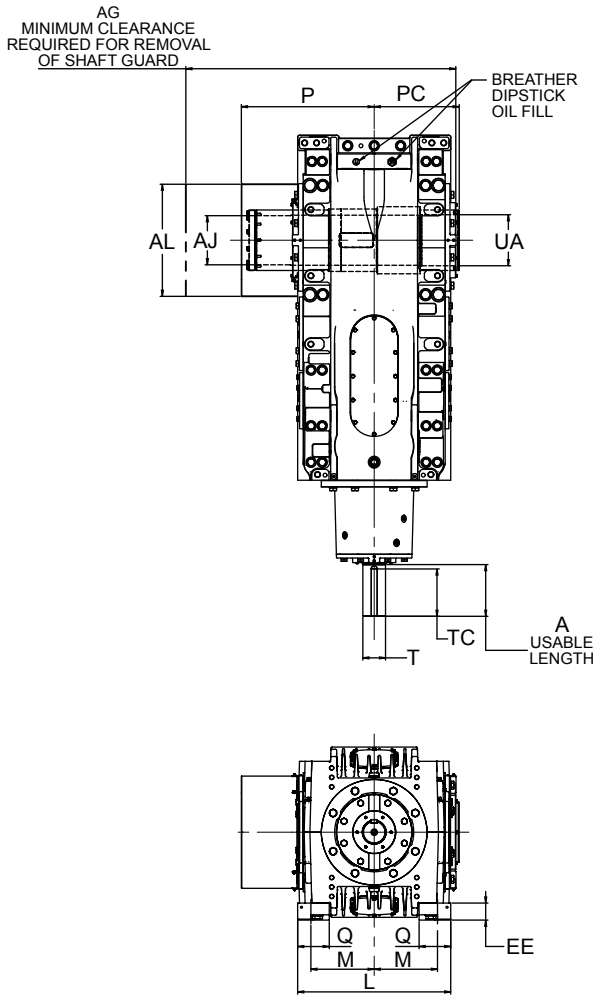
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

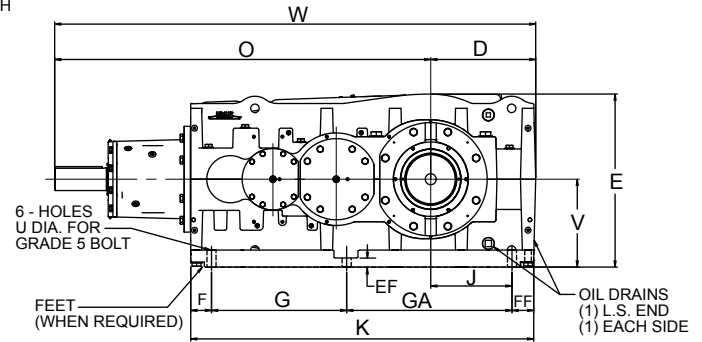
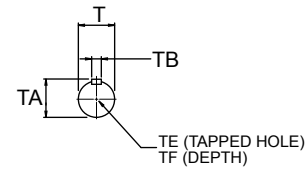
* See table 1 on page 98 for tolerance

Type VRJ3 Triple Reduction Hollow Low-Speed Shaft with Shrink Disc

Sizes 207 – 227/Dimensions — Millimeters



Refer to page 241 for hollow low-speed and driven shaft recommendations and dimensions.



| DRIVE SIZE★ | Ratios | A | AG | AJ* | AL | D | E | EE | EF | F | FF | G | GA | J | K | L | M | O | P | PC | Q |
|-------------|----------|-----|------|-------|-------|-----|------|-----|----|-----|-----|-----|------|-----|------|-----|-----|------|-----|-----|-------|
| 207 | 9,00-125 | 270 | 1429 | 260J7 | 593,8 | 556 | 916 | 90 | 55 | 109 | 115 | 715 | 875 | 430 | 1814 | 810 | 335 | 1990 | 703 | 450 | 167,3 |
| 227 | 9,00-125 | 270 | 1608 | 310J7 | 678,8 | 650 | 1084 | 115 | 75 | 134 | 157 | 830 | 1005 | 480 | 2126 | 900 | 375 | 2135 | 793 | 500 | 172,8 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | Approx. Wt. lb. |
|-------------|-----------|-------------------|-------|----|-----|-----|----|----|-------|-----|------|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | |
| 207 | 9,00-71,0 | 120m6 | 126,8 | 32 | 250 | M24 | 50 | 48 | 270H7 | 465 | 2546 | 5165 |
| | 80,0-125 | 85m6 | 89,8 | 22 | | M20 | 42 | | | | | |
| 227 | 9,00-71,0 | 130m6 | 136,8 | 32 | 250 | M24 | 50 | 55 | 320H7 | 550 | 2785 | 7219 |
| | 80,0-125 | 100m6 | 105,8 | 28 | | | | | | | | |

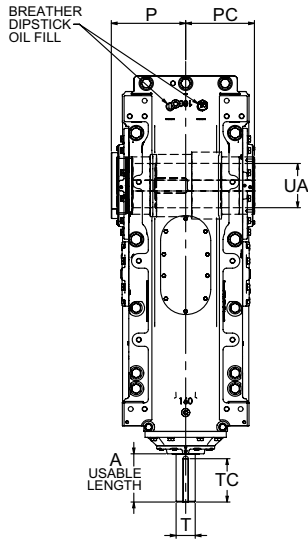
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

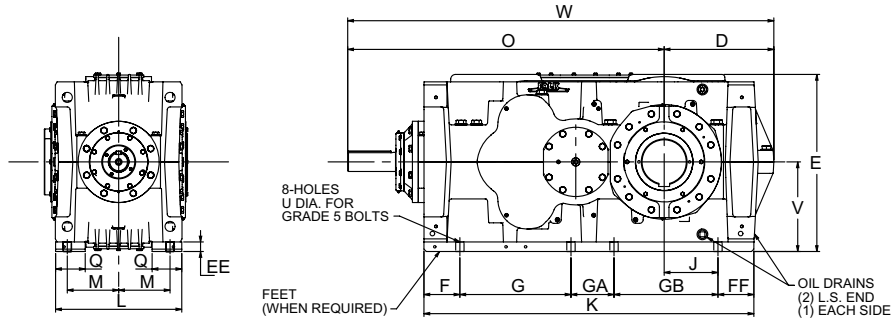
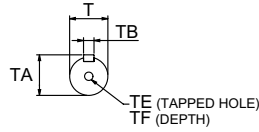
* See table 1 on page 98 for tolerance

Type VRQ2 Double Reduction with Hollow Low-Speed Shaft

Sizes 133 – 173/Dimensions — Millimeters



Refer to page 242 for hollow low-speed and driven shaft recommendations and dimensions.



| DRIVE SIZE★ | Ratios | A | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PC | Q |
|-------------|-----------|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|------|-----|-----|-------|
| 133 | 7,10-12,5 | 150 | 332 | 552 | 35 | 123,4 | 117,3 | 297,5 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 1029 | 253 | 233 | 112,7 |
| 143 | 7,10-12,5 | 155 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 1087 | 255 | 237 | 108,0 |
| 153 | 7,10-12,5 | 180 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 1215 | 286 | 265 | 114,0 |
| 163 | 7,10-12,5 | 195 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 1324 | 311 | 288 | 124,0 |
| 173 | 6,30-11,2 | 240 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 1525 | 334 | 317 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | Approx. Wt. kg. |
|-------------|-----------|-------------------|-------|----|-----|-----|----|----|--------|-----|------|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | |
| 133 | 7,10-12,5 | 60m6 | 63,8 | 18 | 150 | M20 | 42 | 24 | 135 H7 | 280 | 1360 | 800 |
| 143 | 7,10-12,5 | 60m6 | 63,8 | 18 | 150 | M20 | 42 | 24 | 150 H7 | 315 | 1441 | 1027 |
| 153 | 7,10-12,5 | 75m6 | 79,3 | 20 | 180 | M20 | 42 | 28 | 170 H7 | 335 | 1604 | 1395 |
| 163 | 7,10-12,5 | 80m6 | 84,8 | 22 | 180 | M20 | 42 | 35 | 185H7 | 375 | 1783 | 2005 |
| 173 | 6,30-11,2 | 100m6 | 105,8 | 28 | 220 | M24 | 50 | 35 | 220H7 | 450 | 2109 | 2795 |

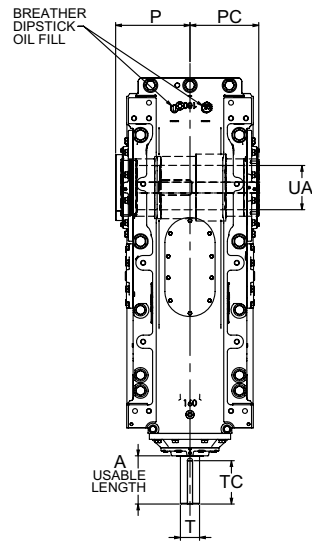
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

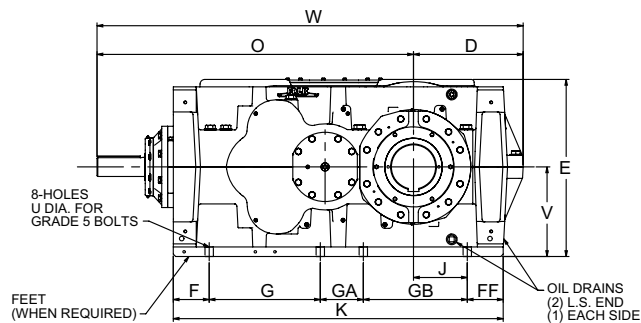
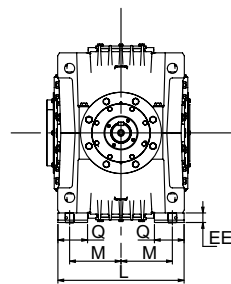
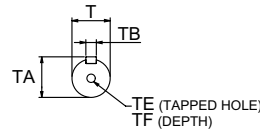
* See table 1 on page 98 for tolerance

Type VRQ2 Double Reduction with Hollow Low-Speed Shaft

Sizes 145 – 175/Dimensions — Millimeters



Refer to page 242 for hollow low-speed and driven shaft recommendations and dimensions.



| DRIVE SIZE★ | Ratios | A | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PC | Q |
|-------------|-----------|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|------|-----|-----|-------|
| 145 | 7,10-12,5 | 155 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 1087 | 255 | 237 | 108,0 |
| 155 | 7,10-12,5 | 180 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 1215 | 286 | 265 | 114,0 |
| 165 | 7,10-12,5 | 195 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 1324 | 311 | 288 | 124,0 |
| 175 | 6,30-11,2 | 240 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 1525 | 334 | 317 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | Approx. Wt. kg. |
|-------------|-----------|-------------------|-------|----|-----|-----|----|----|--------|-----|------|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | |
| 145 | 7,10-12,5 | 60m6 | 63,8 | 18 | 150 | M20 | 42 | 24 | 150 H7 | 315 | 1441 | 1027 |
| 155 | 7,10-12,5 | 75m6 | 79,3 | 20 | 180 | M20 | 42 | 28 | 170 H7 | 335 | 1604 | 1395 |
| 165 | 7,10-12,5 | 80m6 | 84,8 | 22 | 180 | M20 | 42 | 35 | 185H7 | 375 | 1783 | 2005 |
| 175 | 6,30-11,2 | 100m6 | 105,8 | 28 | 220 | M24 | 50 | 35 | 220H7 | 450 | 2109 | 2795 |

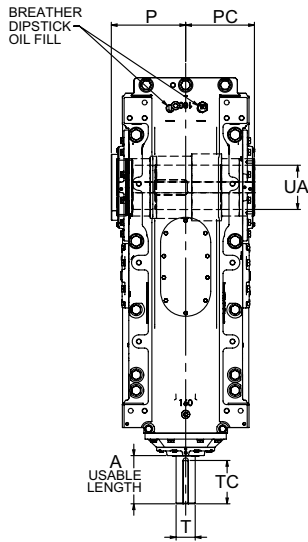
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

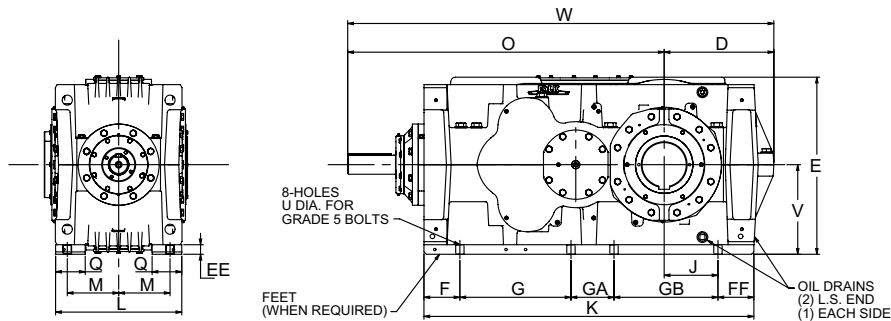
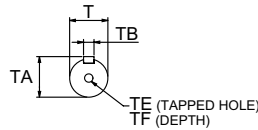
* See table 1 on page 98 for tolerance

Type VRQ2 Double Reduction with Hollow Low-Speed Shaft

Sizes 107 – 187/Dimensions — Millimeters



Refer to page 242 for hollow low-speed and driven shaft recommendations and dimensions.



| DRIVE SIZE★ | Ratios | A | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PC | Q |
|-------------|-----------|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|------|-----|-----|-------|
| 107 | 7,10-12,5 | 100 | 261 | 419 | 25 | 111,0 | 111,0 | 200,0 | 100 | 200,0 | 100 | 722,0 | 322 | 125,0 | 765 | 179 | 176 | 78,0 |
| 117 | 7,10-12,5 | 110 | 286 | 464 | 25 | 115,0 | 115,0 | 230,0 | 120 | 230,0 | 120 | 810,0 | 364 | 150,0 | 840 | 205 | 199 | 92,0 |
| 127 | 7,10-12,5 | 150 | 305 | 522 | 25 | 120,0 | 105,0 | 270,0 | 150 | 253,0 | 144 | 898,0 | 410 | 165,0 | 925 | 225 | 217 | 101,6 |
| 137 | 7,10-12,5 | 150 | 332 | 552 | 35 | 123,4 | 117,3 | 297,5 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 1029 | 253 | 233 | 112,7 |
| 147 | 7,10-12,5 | 155 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 1087 | 255 | 237 | 108,0 |
| 157 | 7,10-12,5 | 180 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 1215 | 286 | 265 | 114,0 |
| 167 | 7,10-12,5 | 195 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 1324 | 311 | 288 | 124,0 |
| 177 | 6,30-11,2 | 240 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 1525 | 334 | 317 | 150,0 |
| 187 | 7,10-12,5 | 240 | 559 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 290 | 1633,5 | 588 | 245,0 | 1550 | 334 | 317 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | Approx. Wt. kg. |
|-------------|-----------|-------------------|-------|----|-----|-----|----|----|--------|-----|------|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | |
| 107 | 7,10-12,5 | 40k6 | 42,9 | 12 | 100 | M16 | 36 | 15 | 95 H7 | 212 | 1026 | 318 |
| 117 | 7,10-12,5 | 50k6 | 53,4 | 14 | 110 | M16 | 36 | 19 | 110 H7 | 236 | 1125 | 451 |
| 127 | 7,10-12,5 | 55m6 | 58,9 | 16 | 140 | M20 | 42 | 19 | 120 H7 | 265 | 1230 | 637 |
| 137 | 7,10-12,5 | 60m6 | 63,8 | 18 | 150 | M20 | 42 | 24 | 135 H7 | 280 | 1360 | 800 |
| 147 | 7,10-12,5 | 60m6 | 63,8 | 18 | 150 | M20 | 42 | 24 | 150 H7 | 315 | 1441 | 1027 |
| 157 | 7,10-12,5 | 75m6 | 79,3 | 20 | 180 | M20 | 42 | 28 | 170 H7 | 335 | 1604 | 1395 |
| 167 | 7,10-12,5 | 80m6 | 84,8 | 22 | 180 | M20 | 42 | 35 | 185H7 | 375 | 1783 | 2005 |
| 177 | 6,30-11,2 | 100m6 | 105,8 | 28 | 220 | M24 | 50 | 35 | 220H7 | 450 | 2109 | 2795 |
| 187 | 7,10-12,5 | 100m6 | 105,8 | 28 | 220 | M24 | 50 | 35 | 220H7 | 450 | 2109 | 2863 |

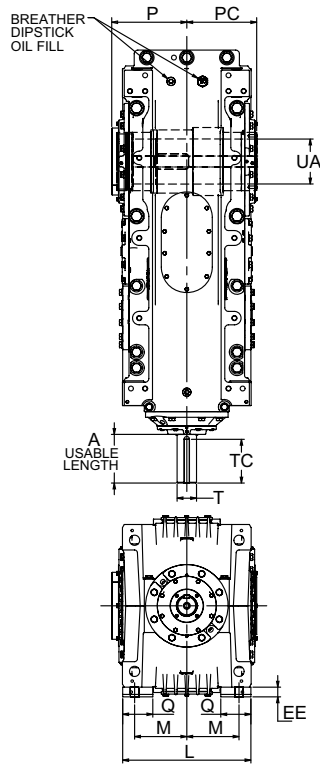
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

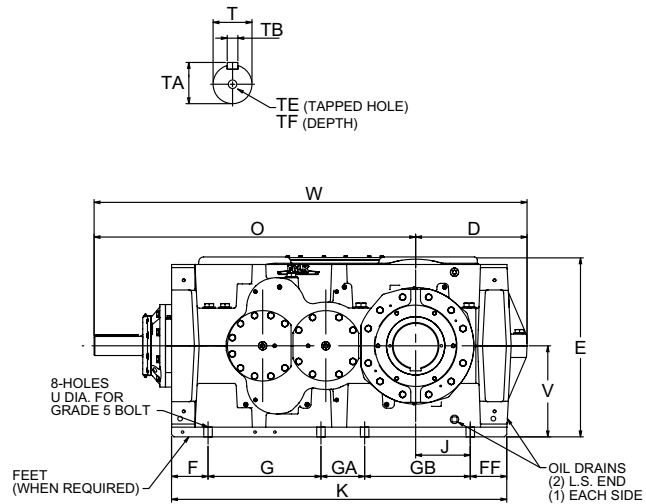
* See table 1 on page 98 for tolerance

Type VRQ3 Triple Reduction with Hollow Low-Speed Shaft

Sizes 133 – 173/Dimensions — Millimeters



Refer to page 242 for hollow low-speed and driven shaft recommendations and dimensions.



| DRIVE SIZE★ | Ratios | A | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PC | Q |
|-------------|----------|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|------|-----|-----|-------|
| 133 | 14,0-125 | 150 | 332 | 552 | 35 | 123,4 | 117,3 | 297,5 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 1029 | 253 | 233 | 112,7 |
| 143 | 14,0-125 | 155 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 1087 | 255 | 237 | 108,0 |
| 153 | 14,0-125 | 180 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 1215 | 286 | 265 | 114,0 |
| 163 | 14,0-125 | 195 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 1324 | 311 | 288 | 124,0 |
| 173 | 12,5-112 | 240 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 1525 | 334 | 317 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | Approx. Wt. kg. |
|-------------|-----------|-------------------|-------|----|-----|-----|----|----|--------|-----|------|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | |
| 133 | 14,0-71,0 | 55m6 | 58,9 | 16 | 150 | M20 | 42 | 24 | 135 H7 | 280 | 1360 | 799 |
| | 80,0-125 | 40k6 | 42,9 | 12 | | M16 | 36 | | | | | |
| 143 | 14,0-71,0 | 60m6 | 63,8 | 18 | 142 | M20 | 42 | 24 | 150 H7 | 315 | 1441 | 1032 |
| | 80,0-125 | 50k6 | 53,4 | 14 | 140 | | | | | | | |
| 153 | 14,0-71,0 | 70m6 | 74,3 | 20 | 180 | M20 | 42 | 28 | 170 H7 | 335 | 1604 | 1426 |
| | 80,0-125 | 55m6 | 58,9 | 16 | | | | | | | | |
| 163 | 14,0-71,0 | 80m6 | 84,8 | 22 | 180 | M20 | 42 | 35 | 185H7 | 375 | 1783 | 1952 |
| | 80,0-125 | 60m6 | 63,8 | 18 | | | | | | | | |
| 173 | 12,5-63,0 | 110m6 | 115,8 | 28 | 220 | M24 | 50 | 35 | 220H7 | 450 | 2109 | 2848 |
| | 71,0-112 | 70m6 | 74,3 | 20 | | M20 | 42 | | | | | |

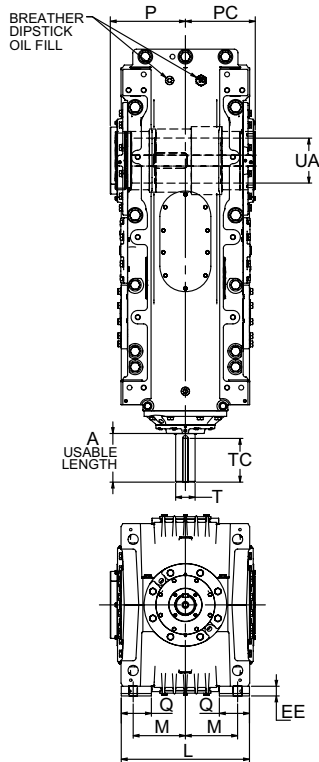
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

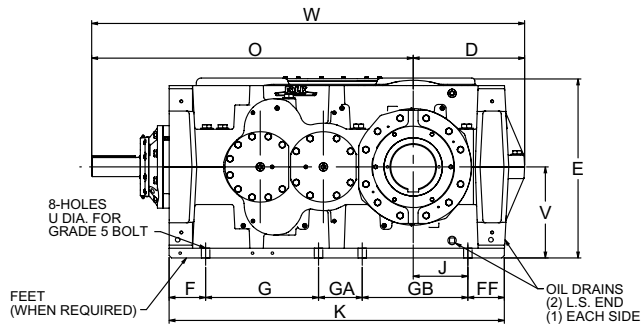
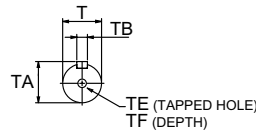
* See table 1 on page 98 for tolerance

Type VRQ3 Triple Reduction with Hollow Low-Speed Shaft

Sizes 145 – 175/Dimensions — Millimeters



Refer to page 242 for hollow low-speed and driven shaft recommendations and dimensions.



| DRIVE SIZE★ | Ratios | A | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PC | Q |
|-------------|----------|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|------|-----|-----|-------|
| 145 | 14,0-125 | 155 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 1087 | 255 | 237 | 108,0 |
| 155 | 14,0-125 | 180 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 1215 | 286 | 265 | 114,0 |
| 165 | 14,0-125 | 195 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 1324 | 311 | 288 | 124,0 |
| 175 | 12,5-112 | 240 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 1525 | 334 | 317 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | Approx. Wt. kg. |
|-------------|-----------|-------------------|-------|----|-----|-----|----|----|--------|-----|------|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | |
| 145 | 14,0-71,0 | 60m6 | 63,8 | 18 | 142 | M20 | 42 | 24 | 150 H7 | 315 | 1441 | 1032 |
| | 80,0-125 | 50k6 | 53,4 | 14 | 140 | | | | | | | |
| 155 | 14,0-71,0 | 70m6 | 74,3 | 20 | 180 | M20 | 42 | 28 | 170 H7 | 335 | 1604 | 1426 |
| | 80,0-125 | 55m6 | 58,9 | 16 | | | | | | | | |
| 165 | 14,0-71,0 | 80m6 | 84,8 | 22 | 180 | M20 | 42 | 35 | 185H7 | 375 | 1783 | 1952 |
| | 80,0-125 | 60m6 | 63,8 | 18 | | | | | | | | |
| 175 | 12,5-63,0 | 110m6 | 115,8 | 28 | 220 | M24 | 50 | 35 | 220H7 | 450 | 2109 | 2848 |
| | 71,0-112 | 70m6 | 74,3 | 20 |  |  |  |  |  |  |  |  | M20 | 42 |

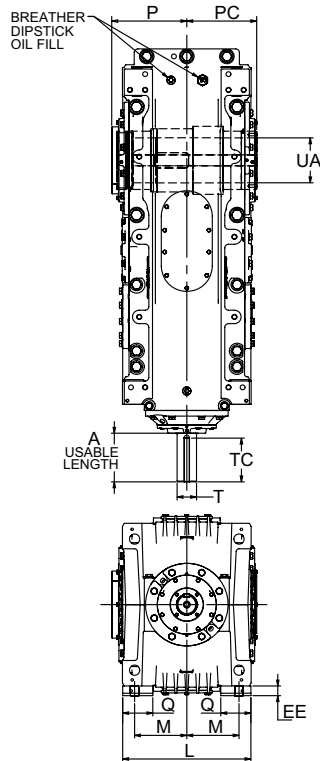
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

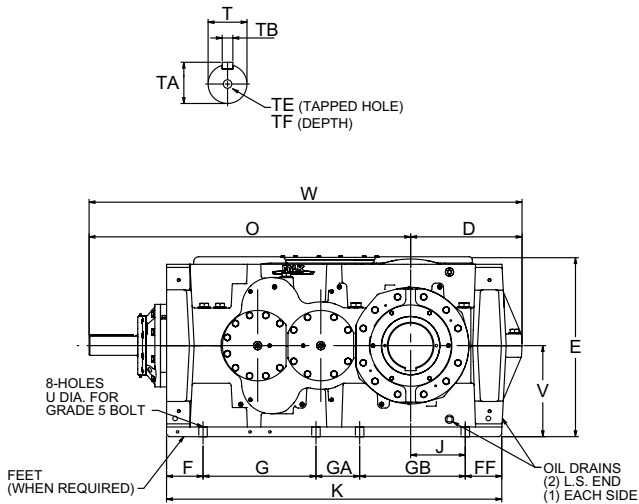
* See table 1 on page 98 for tolerance

Type VRQ3 Triple Reduction with Hollow Low-Speed Shaft

Sizes 107 – 187/Dimensions — Millimeters



Refer to page 242 for hollow low-speed and driven shaft recommendations and dimensions.



| DRIVE SIZE★ | Ratios | A | D | E | EE | F | FF | G | GA | GB | J | K | L | M | O | P | PC | Q |
|-------------|----------|-----|-----|-----|----|-------|-------|-------|-----|-------|-----|--------|-----|-------|------|-----|-----|-------|
| 107 | 14,0-125 | 100 | 261 | 419 | 25 | 111,0 | 111,0 | 200,0 | 100 | 200,0 | 100 | 722,0 | 322 | 125,0 | 765 | 179 | 176 | 78,0 |
| 117 | 14,0-125 | 110 | 286 | 464 | 25 | 115,0 | 115,0 | 230,0 | 120 | 230,0 | 120 | 810,0 | 364 | 150,0 | 840 | 205 | 199 | 92,0 |
| 127 | 14,0-125 | 150 | 305 | 522 | 25 | 120,0 | 105,0 | 270,0 | 150 | 253,0 | 144 | 898,0 | 410 | 165,0 | 925 | 225 | 217 | 101,6 |
| 137 | 14,0-125 | 150 | 332 | 552 | 35 | 123,4 | 117,3 | 297,5 | 165 | 277,5 | 155 | 980,7 | 422 | 177,5 | 1029 | 253 | 233 | 112,7 |
| 147 | 14,0-125 | 155 | 353 | 622 | 45 | 139,0 | 132,0 | 350,0 | 150 | 320,0 | 160 | 1091,0 | 428 | 180,0 | 1087 | 255 | 237 | 108,0 |
| 157 | 14,0-125 | 180 | 389 | 666 | 40 | 138,8 | 130,2 | 410,0 | 180 | 360,0 | 195 | 1219,0 | 488 | 210,0 | 1215 | 286 | 265 | 114,0 |
| 167 | 14,0-125 | 195 | 459 | 745 | 40 | 149,0 | 151,0 | 465,0 | 180 | 435,0 | 225 | 1380,0 | 528 | 215,0 | 1324 | 311 | 288 | 124,0 |
| 177 | 12,5-112 | 240 | 584 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 315 | 1633,5 | 588 | 245,0 | 1525 | 334 | 317 | 150,0 |
| 187 | 14,0-125 | 240 | 559 | 891 | 50 | 158,8 | 169,8 | 545,0 | 200 | 560,0 | 290 | 1633,5 | 588 | 245,0 | 1550 | 334 | 317 | 150,0 |

| DRIVE SIZE★ | Ratios | High-Speed Shaft† | | | | | | U | UA* | V | W | Approx. Wt. kg. |
|-------------|-----------|-------------------|-------|----|-----|-----|----|----|--------|-----|------|-----------------|
| | | T* | TA | TB | TC | TE | TF | | | | | |
| 107 | 14,0-71,0 | 40k6 | 42,9 | 12 | 100 | M16 | 36 | 15 | 95 H7 | 212 | 1026 | 316 |
| | 80,0-125 | 24j6 | 26,9 | 8 | | M8 | 19 | | | | | |
| 117 | 14,0-71,0 | 42k6 | 44,9 | 12 | 123 | M16 | 36 | 19 | 110 H7 | 236 | 1125 | 457 |
| | 80,0-125 | 30j6 | 32,9 | 8 | 120 | M10 | 22 | | | | | |
| 127 | 14,0-71,0 | 50k6 | 53,4 | 14 | 140 | M16 | 36 | 19 | 120 H7 | 265 | 1230 | 625 |
| | 80,0-125 | 35k6 | 37,9 | 10 | | M12 | 28 | | | | | |
| 137 | 14,0-71,0 | 55m6 | 58,9 | 16 | 150 | M20 | 42 | 24 | 135 H7 | 280 | 1360 | 799 |
| | 80,0-125 | 40k6 | 42,9 | 12 | | M16 | 36 | | | | | |
| 147 | 14,0-71,0 | 60m6 | 63,8 | 18 | 142 | M20 | 42 | 24 | 150 H7 | 315 | 1441 | 1032 |
| | 80,0-125 | 50k6 | 53,4 | 14 | 140 | | | | | | | |
| 157 | 14,0-71,0 | 70m6 | 74,3 | 20 | 180 | M20 | 42 | 28 | 170 H7 | 335 | 1604 | 1426 |
| | 80,0-125 | 55m6 | 58,9 | 16 | | | | | | | | |
| 167 | 14,0-71,0 | 80m6 | 84,8 | 22 | 180 | M20 | 42 | 35 | 185H7 | 375 | 1783 | 1952 |
| | 80,0-125 | 60m6 | 63,8 | 18 | | | | | | | | |
| 177 | 12,5-63,0 | 110m6 | 115,8 | 28 | 220 | M24 | 50 | 35 | 220H7 | 450 | 2109 | 2848 |
| | 71,0-112 | 70m6 | 74,3 | 20 | | M20 | 42 | | | | | |
| 187 | 14,0-71,0 | 110m6 | 115,8 | 28 | 220 | M24 | 50 | 35 | 220H7 | 450 | 2109 | 2905 |
| | 80,0-125 | 70m6 | 74,3 | 20 | | M20 | 42 | | | | | |

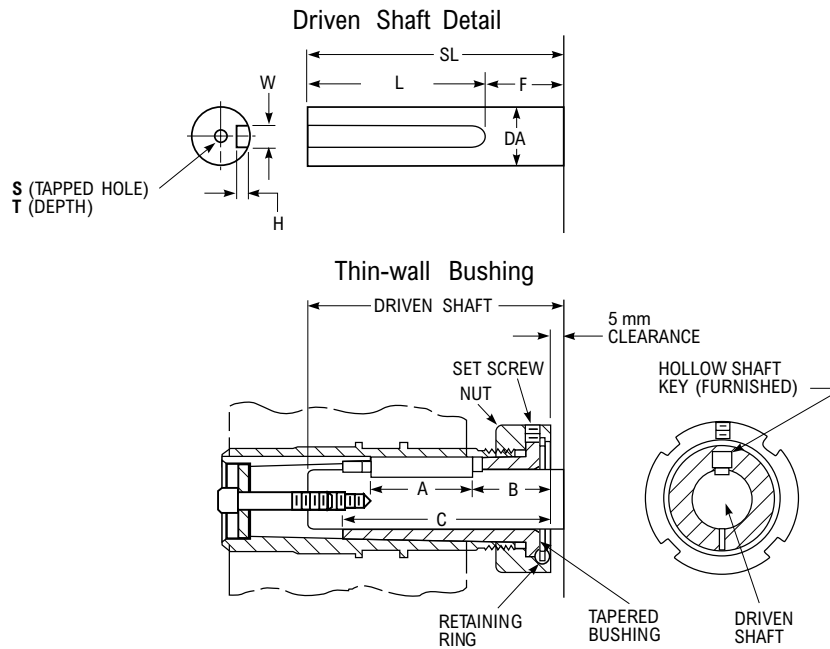
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, floor-mounted operation unless specifically stated otherwise. Consult the Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Key Sizes per ISO/R773-1969, Form B. Tapped center hole to DIN 332, threads 6H.

* See table 1 on page 98 for tolerance

Type VPT & VRT Sizes 107-167

TA Taper Bushing & Driven Shaft/Dimensions — Millimeters

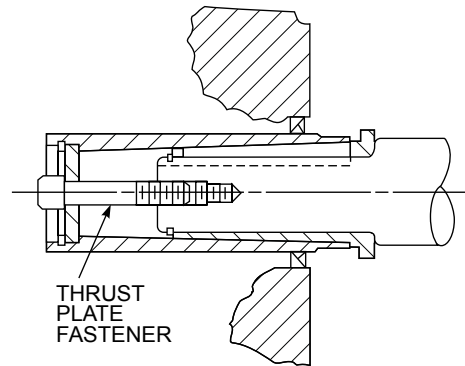
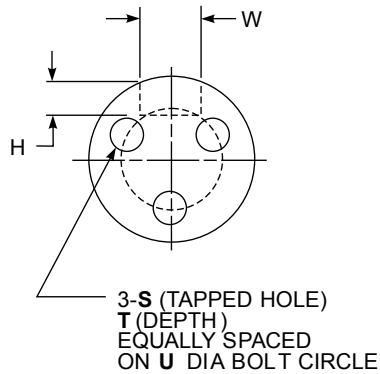
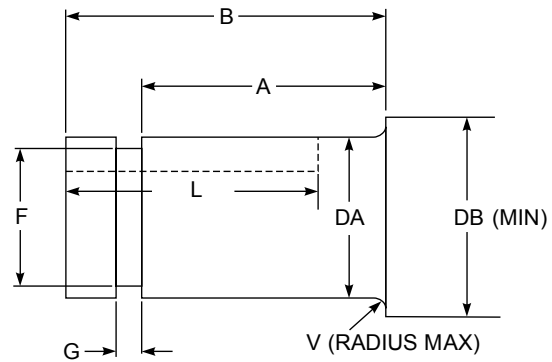


| DRIVE SIZE | Bushing | | | | Driven Shaft | | | | | | | |
|-------------------|--------------|-----|------|------------------------|--------------|-----------|----------|----------|------|-------|-----------|-------|
| | Bushing Size | A | B | C Min Shaft Engagement | DA | Tolerance | SL | W x H ● | F | L Min | S | T Min |
| 107 | 75 | 180 | 65 | 277 | 75 | h10 | 345 ± 10 | 20 x 7,5 | 60 | 200 | M20 x 2,5 | 40 |
| | 80 | | | | 22 x 9 | | | 59 | 202 | | | |
| | 85 | | | | 25 x 9 | | | 57,5 | 205 | | | |
| | 90 | | | | 25 x 9 | | | 68,5 | 205 | | | |
| 117 | 95 | 180 | 76 | 302 | 95 | h10 | 390 ± 12 | 28 x 10 | 67 | 208 | M24 x 3,0 | 48 |
| | 100 | | | | 28 x 10 | | | 72 | 208 | | | |
| 127 | 110 | 180 | 81 | 307 | 110 | h10 | 414 ± 12 | 32 x 11 | 70 | 212 | M24 x 3,0 | 48 |
| | 115 | | | | 32 x 11 | | | 70 | 212 | | | |
| | 120 | | | | 32 x 11 | | | 70 | 212 | | | |
| 133 137 | 120 | 200 | 59,3 | 326 | 120 | h10 | 458 ± 12 | 32 x 11 | 48,3 | 232 | M24 x 3 | 48 |
| | 125 | | | | 32 x 11 | | | 48,3 | 232 | | | |
| | 130 | | | | 32 x 11 | | | 48,3 | 282 | | | |
| | 135 | | | | 36 x 12 | | | 46,3 | 236 | | | |
| 143 145 147 | 130 | 250 | 59,3 | 336 | 130 | h10 | 443 ± 14 | 36 x 12 | 46,3 | 286 | M30 x 3,5 | 60 |
| | 140 | | | | 36 x 12 | | | 46,3 | 286 | | | |
| | 150 | | | | 36 x 12 | | | 55,3 | 286 | | | |
| 153 155 157 | 150 | 250 | 68,3 | 373 | 150 | h10 | 503 ± 14 | 40 x 13 | 53,3 | 290 | M30 x 3,5 | 60 |
| | 160 | | | | 40 x 13 | | | 53,3 | 290 | | | |
| | 170 | | | | 40 x 13 | | | 53,3 | 290 | | | |
| 163 165 167 | 160 | 280 | 65,8 | 388 | 160 | h10 | 552 ± 14 | 45 x 15 | 48,3 | 325 | M30 x 3,5 | 60 |
| | 170 | | | | 45 x 15 | | | 48,3 | 325 | | | |
| | 175 | | | | 45 x 15 | | | 48,3 | 325 | | | |
| | 185 | | | | 45 x 15 | | | 48,3 | 325 | | | |

● Check strength of driven shaft.

Type VPT & VRT Sizes 173-187

Driven Shaft Recommendations Using TA Taper Bushing With Keeper Plate
 Sizes 173-187/Dimensions — Millimeters



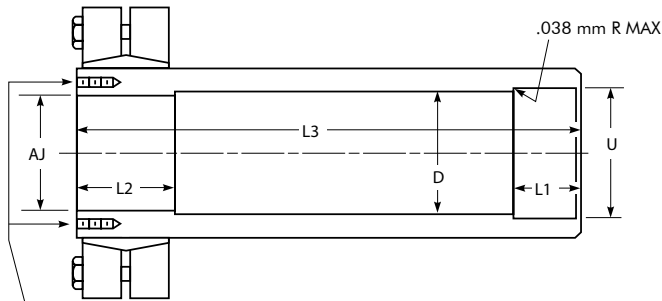
| DRIVE SIZE | A | B | DA* | DB | Retaining Ring | | | | Keyway | | | Shaft End | | | V |
|--------------------------|-----|-----|---------|-----|----------------|------|--------------------|--------|--------|----|---------|-----------|---------|-----|---|
| | | | | | Groove | | Mfg No. | Max OD | W | H | L (Min) | S | T (Min) | U | |
| | | | | | F | G | | | | | | | | | |
| 173 175 177 187 | 397 | 424 | 190 h10 | 205 | 185 | 4,15 | Smalley DNS-190 | 201 | 45 | 15 | 373 | M24 x 3 | 45 | 120 | 4 |
| 173 175 177 187 | 397 | 424 | 200 h10 | 215 | 195 | 4,15 | Smalley DNS-200 | 211 | 51 | 15 | 373 | M24 x 3 | 45 | 120 | 4 |

* See table 1 on page 98 for tolerance

Type VPJ & VRJ Sizes 107-187

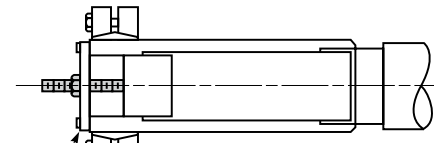
Hollow Low-Speed Shaft — Shrink Disc Mounted/Dimensions — Millimeters

The drive package includes the keeper plate and keeper plate retention hardware



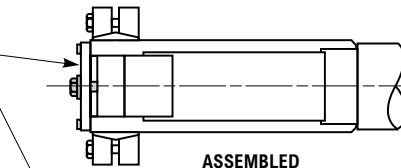
Z - QUANTITY
ZA - DIA. TAPPED HOLES IN HOLLOW SHAFT
ZB - DEEP
Y - DIA. BOLT CIRCLE - EQUALLY SPACED HOLES FOR KEEPER PLATE RETENTION

Installation and removal can be assisted through the use of additional hardware items shown shaded (customer-supplied)

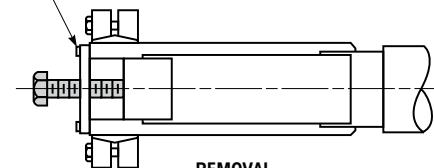


INSTALLATION

A threaded rod is inserted through the keeper plate center hole and into the tapped hole in the end of the driven shaft. The threaded rod, with nut as shown, are used to aid assembly.



ASSEMBLED



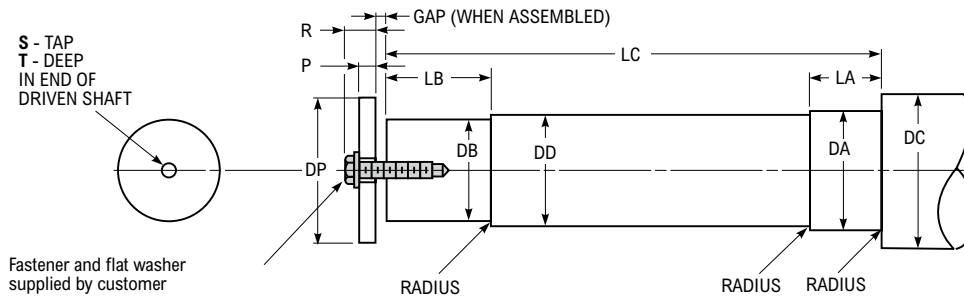
REMOVAL

A fastener (larger dia than the threaded rod) is threaded into the tapped center hole of the keeper plate and is used to separate the driven shaft from the hollow low-speed shaft of the gear drive.

Hollow Low-Speed Shaft Dimensions — Millimeters

| DRIVE SIZE | AJ* | D | L1 | L2 | L3 | U* | Z | ZA | ZB | Y |
|---------------|--------|-----|-----|-----|-----|--------|---|------------|----|-----|
| 107 | 85 J7 | 88 | 60 | 60 | 398 | 90 H7 | 8 | M6 x 1,00 | 12 | 96 |
| 117 | 105 J7 | 108 | 75 | 60 | 462 | 110 H7 | 8 | M8 x 1,25 | 16 | 122 |
| 127 | 125 J7 | 128 | 70 | 70 | 496 | 130 H7 | 8 | M8 x 1,25 | 16 | 140 |
| 133, 137 | 135 J7 | 138 | 90 | 90 | 524 | 140 H7 | 8 | M8 x 1,25 | 16 | 148 |
| 143, 145, 147 | 150 J7 | 153 | 95 | 95 | 563 | 155 H7 | 8 | M8 x 1,25 | 16 | 167 |
| 153, 155, 157 | 165 J7 | 168 | 110 | 105 | 634 | 170 H7 | 6 | M12 x 1,75 | 28 | 191 |
| 163, 165, 167 | 180 J7 | 183 | 120 | 105 | 686 | 185 H7 | 6 | M12 x 1,75 | 28 | 210 |
| 163, 165, 167 | 200 J7 | 205 | 130 | 120 | 760 | 210 H7 | 6 | M12 x 1,75 | 24 | 230 |
| 187 | 205 J7 | 208 | 130 | 120 | 760 | 210 H7 | 6 | M12 x 1,75 | 24 | 230 |

* See table 1 on page 98 for tolerance



Driven Shaft Recommended Dimensions — Millimeters

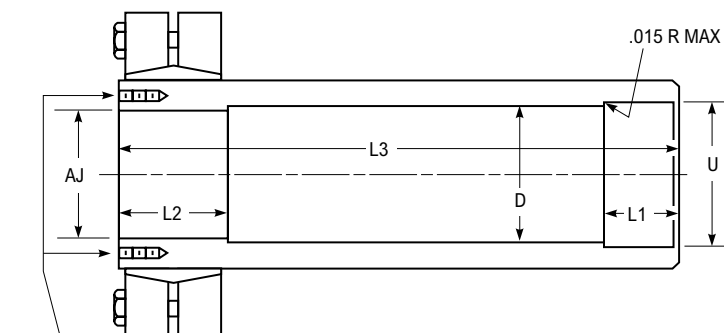
| DRIVE SIZE | DA* | DB* | DC Min | DD | Radius Max | LA | LB | LC | DP | P | R | S | T | Fastener Length | Tapped Hole in Center of Keeper Plate | Gap |
|---------------|--------|--------|--------|---------|------------|-----|-----|-----|-----|-------|----|-----------|----|-----------------|---------------------------------------|-----|
| 107 | 90 h6 | 85 g6 | 105 | 88 c11 | 3 | 54 | 66 | 394 | 110 | 15,00 | 31 | M20 x 2,5 | 40 | 55 | M24 x 3,0 | 4 |
| 117 | 110 h6 | 105 g6 | 125 | 108 c11 | 3 | 69 | 66 | 458 | 139 | 15,88 | 35 | M24 x 3,0 | 48 | 65 | M30 x 3,5 | 4 |
| 127 | 130 h6 | 125 g6 | 145 | 128 c11 | 3 | 64 | 76 | 492 | 154 | 19,05 | 39 | M24 x 3,0 | 48 | 70 | M30 x 3,5 | 4 |
| 133, 137 | 140 h6 | 135 g6 | 155 | 138 c11 | 3 | 84 | 96 | 520 | 164 | 19,05 | 39 | M24 x 3,0 | 48 | 70 | M36 x 4,0 | 4 |
| 143, 145, 147 | 155 h6 | 150 g6 | 170 | 153 c11 | 3 | 89 | 101 | 559 | 174 | 19,05 | 43 | M30 x 3,5 | 60 | 80 | M42 x 4,5 | 4 |
| 153, 155, 157 | 170 h6 | 165 g6 | 185 | 168 c11 | 3 | 104 | 111 | 630 | 219 | 19,05 | 48 | M36 x 4,0 | 72 | 90 | M48 x 5,0 | 4 |
| 163, 165, 167 | 185 h6 | 180 g6 | 200 | 183 c11 | 3 | 114 | 111 | 682 | 235 | 19,05 | 47 | M36 x 4,0 | 72 | 90 | M48 x 5,0 | 4 |
| 163, 165, 167 | 210 h6 | 200 g6 | 230 | 205 c11 | 3 | 124 | 126 | 756 | 258 | 25,40 | 53 | M36 x 4,0 | 72 | 100 | M48 x 5,0 | 4 |
| 187 | 210 h6 | 205 g6 | 230 | 208 c11 | 3 | 124 | 126 | 756 | 258 | 25,40 | 53 | M36 x 4,0 | 72 | 100 | M48 x 5,0 | 4 |

* See table 1 on page 98 for tolerance

Type VPJ & VRJ Sizes 203-227

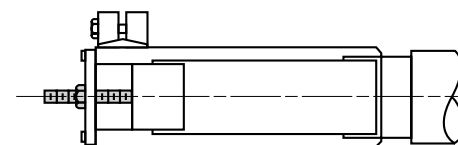
Hollow Low-Speed Shaft — Shrink Disc Mounted/Dimensions — Millimeters

The drive package includes the keeper plate and keeper plate retention hardware



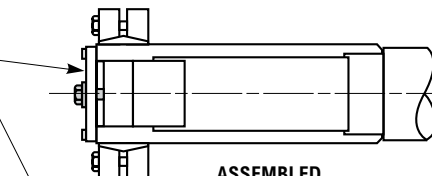
Z - QUANTITY
 ZA - DIA. UNC TAPPED HOLES IN HOLLOW SHAFT
 ZB - DEEP
 Y - DIA. BOLT CIRCLE - EQUALLY SPACED HOLES FOR KEEPER PLATE RETENTION

Installation and removal can be assisted through the use of additional hardware items shown shaded (customer-supplied)

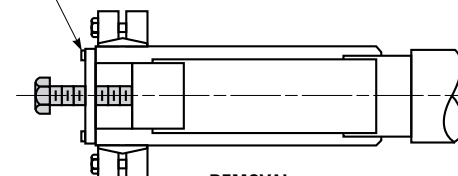


INSTALLATION

A threaded rod is inserted through the keeper plate center hole and into the tapped hole in the end of the driven shaft. The threaded rod, with nut as shown, are used to aid assembly.



ASSEMBLED

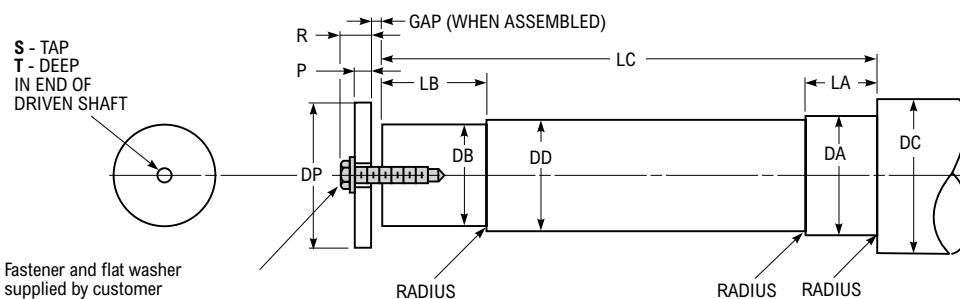


REMOVAL

A fastener (larger dia than the threaded rod) is threaded into the tapped center hole of the keeper plate and is used to separate the driven shaft from the hollow low-speed shaft of the gear drive.

Hollow Low-Speed Shaft Dimensions — Millimeters

| DRIVE SIZE | AJ* | D | L1 | L2 | L3 | U* | Z | ZA | ZB | Y |
|-------------------|-------|-----|-----|-----|------|-------|----|---------------|----|-----|
| 203 207 | 260J7 | 265 | 200 | 190 | 1080 | 270H7 | 10 | M12 x 1,75-6H | 24 | 290 |
| 223 225 227 | 310J7 | 315 | 205 | 205 | 1205 | 320H7 | 10 | M16 x 2,00-6H | 32 | 345 |



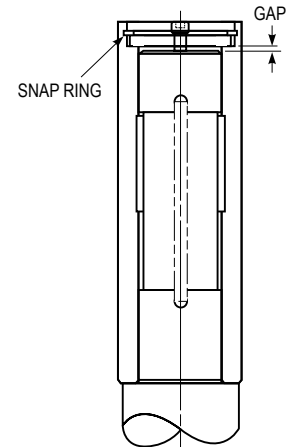
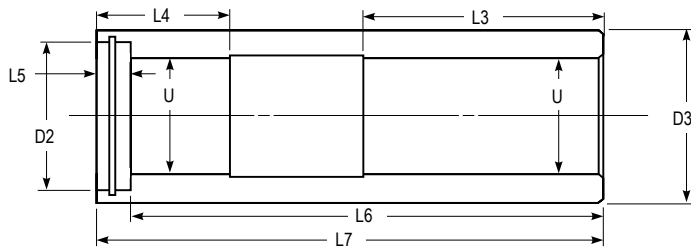
Driven Shaft Recommended Dimensions — Millimeters

| DRIVE SIZE | DA* | DB* | DC Min | DD | Radius Max | LA | LB | LC | DP | P | R | S | T | Fastener Length | Tapped Hole in Center of Keeper Plate | Gap |
|-------------------|-------|-------|--------|--------|------------|-----|-----|------|-----|----|----|------------|----|-----------------|---------------------------------------|-----|
| 203 207 | 270h6 | 260g6 | 295 | 265c11 | 4 | 194 | 192 | 1076 | 318 | 32 | 70 | M48 x 5-6H | 96 | 120 | M64 x 6-6H | 4 |
| 223 225 227 | 320h6 | 310g6 | 345 | 315c11 | 4 | 199 | 207 | 1201 | 378 | 32 | 70 | M48 x 5-6H | 96 | 120 | M64 x 6-6H | 4 |

* See table 1 on page 98 for tolerance

Type VPQ & VRQ Sizes 107-187

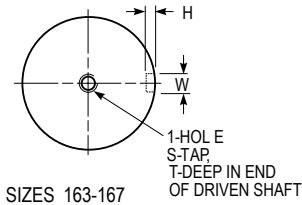
Hollow Low-Speed Shaft With Keeper Plate/Dimensions — Millimeters



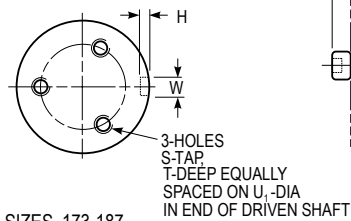
Hollow Low-Speed Shaft Dimensions — Millimeters

| DRIVE SIZE★ | Shaft-Diameters | | | | L3 | L4 | L5 | L6 | L7 | Gap Between Shaft & Plate | |
|---------------|-----------------|--------|-------|--------------------------------------|-----|-----|-----|----|-----|---------------------------|----|
| | U* | UF* | UG | D2 <small>+0,24 -0,00</small> | | | | | | | D3 |
| 107 | 95 H7 | 25 D10 | 100,5 | 115 | 130 | 60 | 116 | 66 | 280 | 346 | 5 |
| 117 | 110 H7 | 28 D10 | 116,5 | 130 | 150 | 65 | 107 | 52 | 344 | 396 | 5 |
| 127 | 120 H7 | 32 D10 | 127,5 | 150 | 170 | 70 | 119 | 60 | 374 | 434 | 5 |
| 133, 137 | 135 H7 | 36 D10 | 143,6 | 167 | 180 | 90 | 119 | 52 | 411 | 463 | 5 |
| 143, 145, 147 | 150 H7 | 36 D10 | 158,6 | 185 | 200 | 90 | 122 | 72 | 402 | 474 | 5 |
| 153, 155, 157 | 170 H7 | 40 D10 | 179,6 | 205 | 220 | 110 | 158 | 68 | 462 | 530 | 5 |
| 163, 165, 167 | 185 H7 | 45 D10 | 195,4 | 227 | 240 | 120 | 201 | 66 | 507 | 574 | 5 |
| 163, 165, 167 | 220 H7 | 50 D10 | 231,4 | 240 | 280 | 130 | 177 | 75 | 554 | 629 | 5 |
| 187 | 220 H7 | 50 D10 | 231,4 | 240 | 280 | 130 | 177 | 75 | 554 | 629 | 5 |

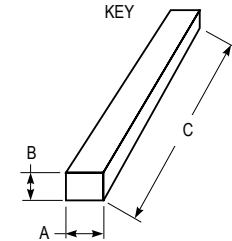
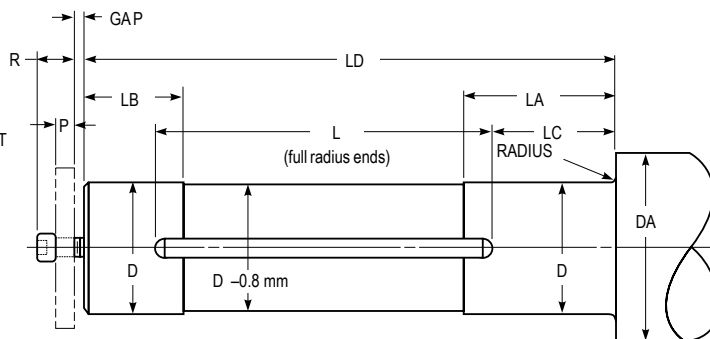
* See table 1 on page 98 for tolerance



SIZES 163-167



SIZES 173-187



Driven Shaft Recommended Dimensions – Millimeters

| DRIVE SIZE★ | Shaft | | Radius Max | LD | LA | LB | LC | R | S | T | Thrust Plate (Keeper Plate) | | | Keyway | | | Key | | | |
|---------------|--------|--------|------------|-----|-----|-----|----|------|-----------|----|-----------------------------|-------------------------------------|----------------|-----------------|-------|-----|-----|-------|--------|-----|
| | D* | DA Min | | | | | | | | | Snap Ring ● (mm) | p <small>+0,00 -0,12</small> | U ₁ | Fastener Length | W* | H ■ | L | A* | B* | C |
| 107 | 95 g6 | 120 | 3 | 275 | 80 | 40 | 25 | 47,5 | M24 x 3,0 | 48 | 115 | 23,5 | --- | 65 | 25 N9 | 9 | 225 | 25 h9 | 14 h11 | 200 |
| 117 | 110 g6 | 140 | 3 | 339 | 85 | 45 | 30 | 47,5 | M24 x 3,0 | 48 | 130 | 23,5 | --- | 65 | 28 N9 | 10 | 278 | 28 h9 | 16 h11 | 250 |
| 127 | 120 g6 | 150 | 3 | 369 | 90 | 49 | 40 | 47,5 | M24 x 3,0 | 48 | 150 | 23,5 | ... | 65 | 32 N9 | 11 | 282 | 32 h9 | 18 h11 | 250 |
| 133, 137 | 135 g6 | 165 | 3 | 406 | 107 | 57 | 45 | 47,5 | M24 x 3,0 | 48 | 165 | 23,5 | ... | 65 | 36 N9 | 12 | 316 | 36 h9 | 20 h11 | 280 |
| 143, 145, 147 | 150 g6 | 190 | 3 | 397 | 102 | 40 | 25 | 53,5 | M30 x 3,5 | 60 | 185 | 23,5 | ... | 70 | 36 N9 | 12 | 356 | 36 h9 | 20 h11 | 320 |
| 153, 155, 157 | 170 g6 | 210 | 3 | 457 | 130 | 80 | 30 | 52,5 | M30 x 3,5 | 60 | 205 | 23,5 | ... | 70 | 40 N9 | 13 | 400 | 40 h9 | 22 h11 | 360 |
| 163, 165, 167 | 185 g6 | 230 | 3 | 503 | 188 | 125 | 38 | 52,5 | M30 x 3,5 | 60 | 227 | 22,5 | ... | 70 | 45 N9 | 15 | 445 | 45 h9 | 22 h11 | 400 |
| 163, 165, 167 | 220 g6 | 265 | 3 | 549 | 220 | 92 | 40 | 67,5 | M30 x 3,5 | 60 | 240 | 37,5 | 85 | 90 | 50 N9 | 17 | 450 | 50 h9 | 22 h11 | 400 |
| 187 | 220 g6 | 265 | 3 | 549 | 220 | 92 | 40 | 67,5 | M30 x 3,5 | 60 | 240 | 37,5 | 85 | 90 | 50 N9 | 17 | 450 | 50 h9 | 22 h11 | 400 |

★ Dimensions are for reference only and are subject to change without notice unless certified.

● Rotor clip DHO series or equivalent.

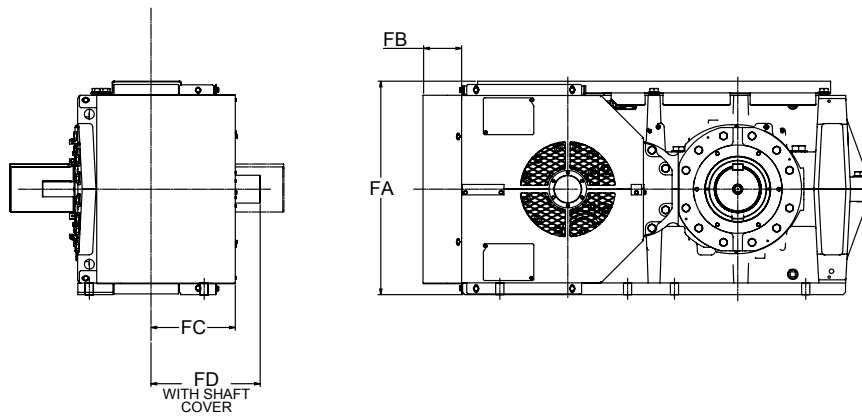
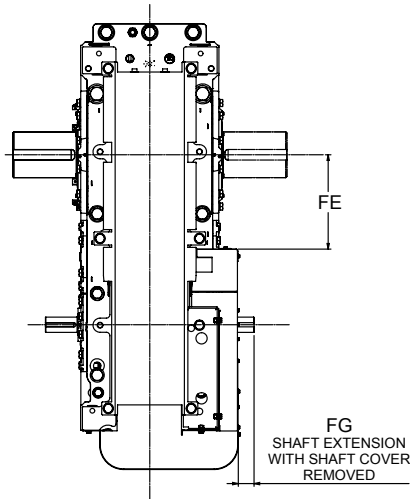
■ Keyway tolerance for Sizes 100 thru 127 +0,2 mm/-0,0 mm, for Sizes 133 thru 187 +0,3 mm/-0,0 mm.

* See table 1 on page 98 for tolerance

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Type VP2 & VP3 Sizes 107-187

Shaft-Driven Fan Clearance/Dimensions — Millimeters



VP2 Shaft-Driven Fan Clearance Dimensions — Millimeters

| DRIVE SIZE | Ratios | FA | FB | FC | FD | FE | FG ‡ |
|---------------|-------------|-----|-----|-----|-----|-----|------|
| 107 | 5,60 - 28,0 | 424 | 138 | 208 | 282 | 128 | 74,2 |
| 117 | 5,60 - 28,0 | 489 | 138 | 243 | 307 | 120 | 64,2 |
| 127 | 5,60 - 28,0 | 543 | 138 | 258 | 326 | 160 | 67,7 |
| 133, 137 | 5,60 - 28,0 | 569 | 169 | 287 | 343 | 220 | 52,1 |
| 143, 145, 147 | 5,60 - 28,0 | 639 | 168 | 293 | 377 | 222 | 79,0 |
| 153, 155, 157 | 5,60 - 28,0 | 683 | 169 | 323 | 407 | 270 | 80,0 |
| 163, 165, 167 | 5,60 - 28,0 | 753 | 166 | 347 | 453 | 327 | 97,9 |
| 163, 165, 167 | 5,00 - 25,0 | 906 | 168 | 384 | 484 | 368 | 98,0 |
| 187 | 5,60 - 28,0 | 906 | 168 | 384 | 484 | 393 | 98,0 |

‡ Allows 3 mm clearance from shroud.

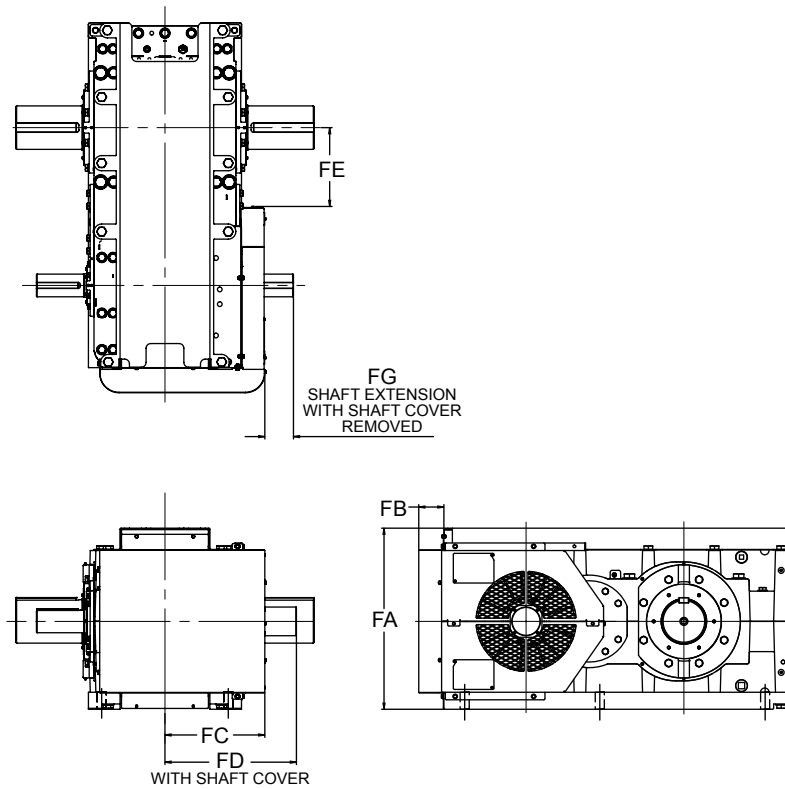
VP3 Shaft-Driven Fan Clearance Dimensions — Millimeters

| DRIVE SIZE | Ratios | FA | FB | FC | FD | FE | FG ‡ |
|---------------|----------|-----|-----|-----|-----|-----|------|
| 107 | 31,5-160 | 424 | 138 | 202 | 232 | 128 | 30,8 |
| 117 | 31,5-160 | 489 | 138 | 227 | 257 | 160 | 30,0 |
| 127 | 31,5-160 | 543 | 137 | 248 | 296 | 195 | 46,7 |
| 133, 137 | 31,5-160 | 569 | 169 | 276 | 331 | 220 | 34,1 |
| 143, 145, 147 | 31,5-160 | 639 | 169 | 293 | 377 | 220 | 49,0 |
| 153, 155, 157 | 31,5-160 | 683 | 169 | 323 | 407 | 270 | 50,0 |
| 163, 165, 167 | 31,5-160 | 753 | 166 | 332 | 395 | 407 | 54,0 |
| 163, 165, 167 | 28,0-140 | 906 | 168 | 384 | 484 | 368 | 68,0 |
| 187 | 31,5-160 | 906 | 168 | 384 | 484 | 393 | 68,0 |

‡ Allows 3 mm clearance from shroud.

Type VP2 & VP3 Sizes 193-227

Shaft-Driven Fan Clearance/Dimensions — Millimeters



VP2 Shaft-Driven Fan Clearance Dimensions — Millimeters

| DRIVE SIZE | Ratios | FA | FB | FC | FD | FE | FG ‡ |
|-------------------|-------------|--------|-------|-------|-------|-------|-------|
| 193 195 197 | 5,00 - 25,0 | 879,7 | 132,8 | 528,5 | 695,6 | 377,1 | 152,2 |
| 203 207 | 5,60 - 28,0 | 879,7 | 132,8 | 528,5 | 695,6 | 417,1 | 152,2 |
| 213 215 217 | 5,00 - 25,0 | 1028,7 | 144,8 | 594,9 | 787,1 | 512,1 | 170,7 |
| 223 225 227 | 5,60 - 28,0 | 1028,7 | 144,8 | 594,9 | 787,1 | 562,1 | 170,7 |

‡ Allows 3 mm clearance from shroud.

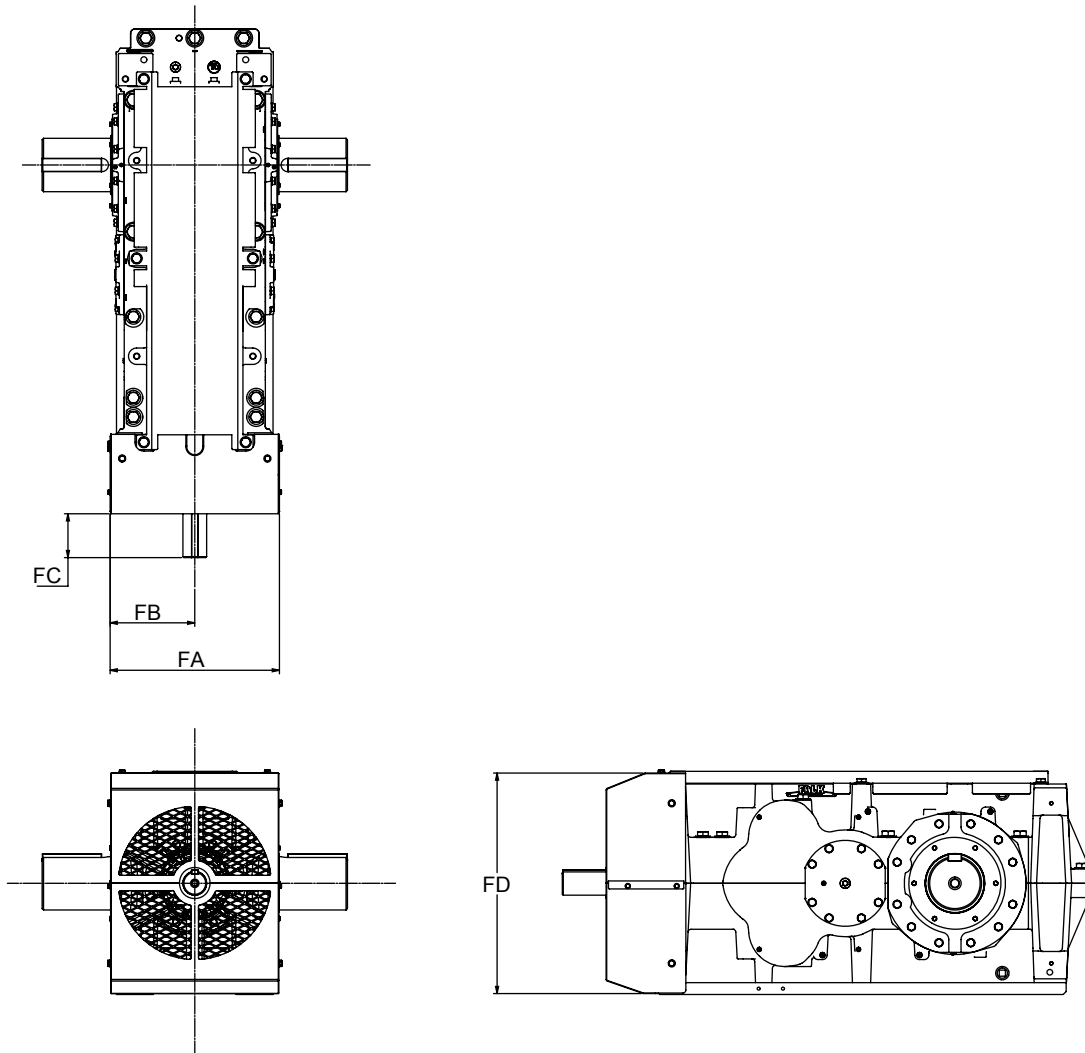
VP3 Shaft-Driven Fan Clearance Dimensions — Millimeters

| DRIVE SIZE | Ratios | FA | FB | FC | FD | FE | FG ‡ |
|-------------------|------------|--------|-------|-------|-------|-------|-------|
| 193 195 197 | 28,0 - 140 | 879,7 | 152,1 | 483,0 | 650,1 | 664,5 | 117,7 |
| 203 207 | 31,5 - 160 | 879,7 | 152,1 | 483,0 | 650,1 | 714,5 | 117,7 |
| 213 215 217 | 28,0 - 140 | 1028,7 | 164,1 | 528,0 | 686,1 | 781,5 | 144,7 |
| 223 225 227 | 31,5 - 160 | 1028,7 | 164,1 | 528,0 | 686,1 | 831,5 | 144,7 |

‡ Allows 3 mm clearance from shroud.

Type VR2 & VR3 Sizes 107-187

Shaft-Driven Fan Clearance/Dimensions — Millimeters



VR2 Shaft-Driven Fan Clearance Dimensions — Millimeters

| DRIVE SIZE | Ratios | FA | FB | FC‡ | FD |
|-------------------|-------------|-----|-----|-------|-----|
| 107 | 7,10-12,5 | 424 | 212 | 72,7 | 431 |
| 117 | 7,10-12,5 | 462 | 231 | 76,8 | 479 |
| 127 | 7,10 - 12,5 | 509 | 255 | 108,9 | 532 |
| 133 137 | 7,10 - 12,5 | 462 | 231 | 117,1 | 557 |
| 143 145 147 | 7,10 - 12,5 | 515 | 258 | 113,1 | 627 |
| 153 155 157 | 7,10 - 12,5 | 576 | 288 | 113,0 | 667 |
| 163 165 167 | 7,10 - 12,5 | 567 | 284 | 114,8 | 744 |
| 163 165 167 | 6,30 - 11,2 | 742 | 371 | 171,2 | 894 |
| 187 | 7,10 - 12,5 | 742 | 371 | 171,2 | 894 |

‡ Allows 3 mm clearance from shroud.

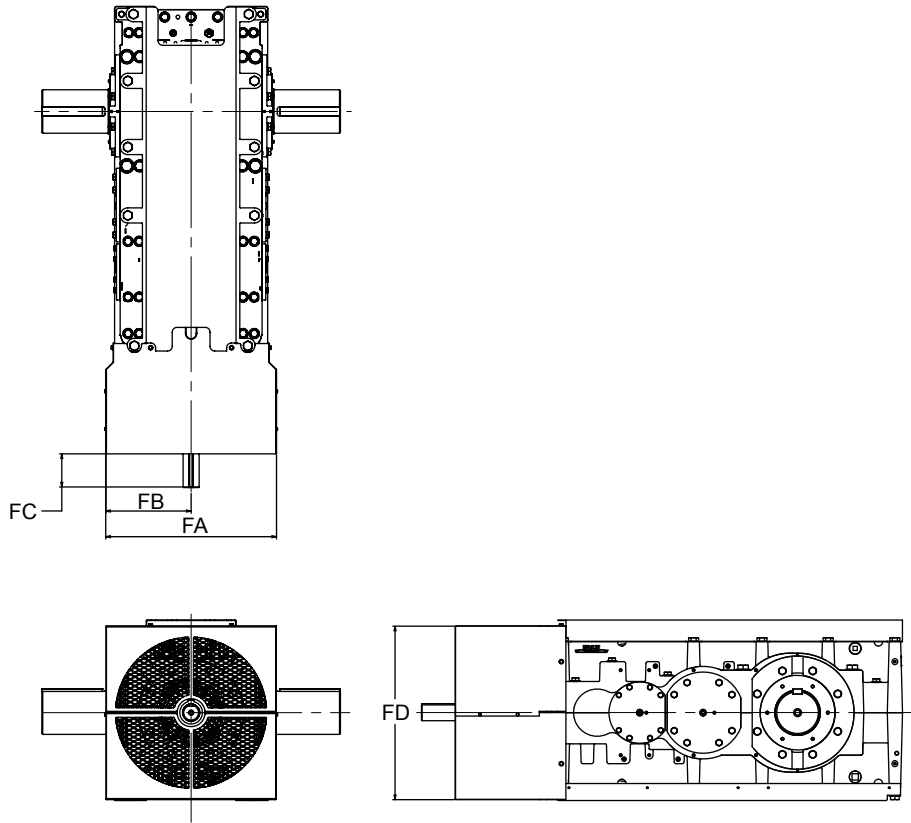
VR3 Shaft-Driven Fan Clearance Dimensions — Millimeters

| DRIVE SIZE | Ratios | FA | FB | FC‡ | FD |
|-------------------|------------|-----|-----|-------|-----|
| 107 | 14,0-125 | 424 | 212 | 72,7 | 431 |
| 117 | 14,0-125 | 462 | 231 | 76,8 | 479 |
| 127 | 14,0 - 125 | 509 | 255 | 108,9 | 532 |
| 133 137 | 14,0 - 125 | 462 | 231 | 117,1 | 557 |
| 143 145 147 | 14,0 - 125 | 515 | 258 | 113,1 | 627 |
| 153 155 157 | 14,0 - 125 | 576 | 288 | 113,0 | 667 |
| 163 165 167 | 14,0 - 125 | 567 | 284 | 114,8 | 744 |
| 163 165 167 | 12,5 - 112 | 742 | 371 | 171,2 | 894 |
| 187 | 14,0 - 125 | 742 | 371 | 171,2 | 894 |

‡ Allows 3 mm clearance from shroud.

Type VR3 Sizes 193-227

Shaft-Driven Fan Clearance/Dimensions — Millimeters



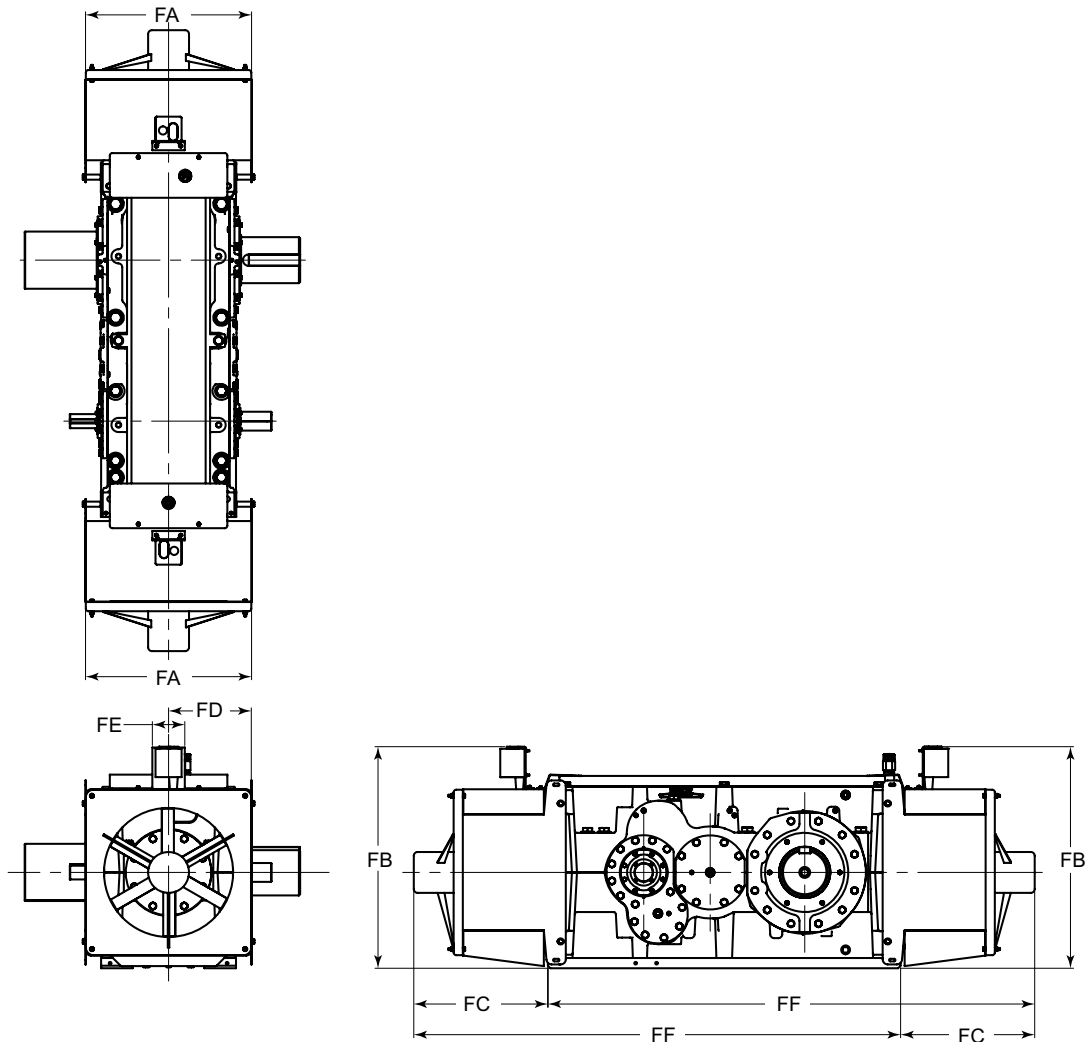
VR3 Shaft-Driven Fan Clearance Dimensions — Millimeters

| DRIVE SIZE | Ratios | FA | FB | FC ‡ | FD |
|-------------------|------------|-------|-------|-------|--------|
| 193 195 197 | 8,00 - 112 | 900,0 | 450,0 | 175,3 | 920,0 |
| 203 207 | 9,00 - 125 | 900,0 | 450,0 | 175,3 | 920,0 |
| 213 215 217 | 8,00 - 112 | 995,0 | 497,5 | 172,0 | 1091,0 |
| 223 225 227 | 9,00 - 125 | 995,0 | 497,5 | 172,0 | 1091,0 |

‡ Allows 3 mm clearance from shroud.

Type VP1, VP2 & VP3 Sizes 107-187

Electric Fan Clearance/Dimensions — Millimeters



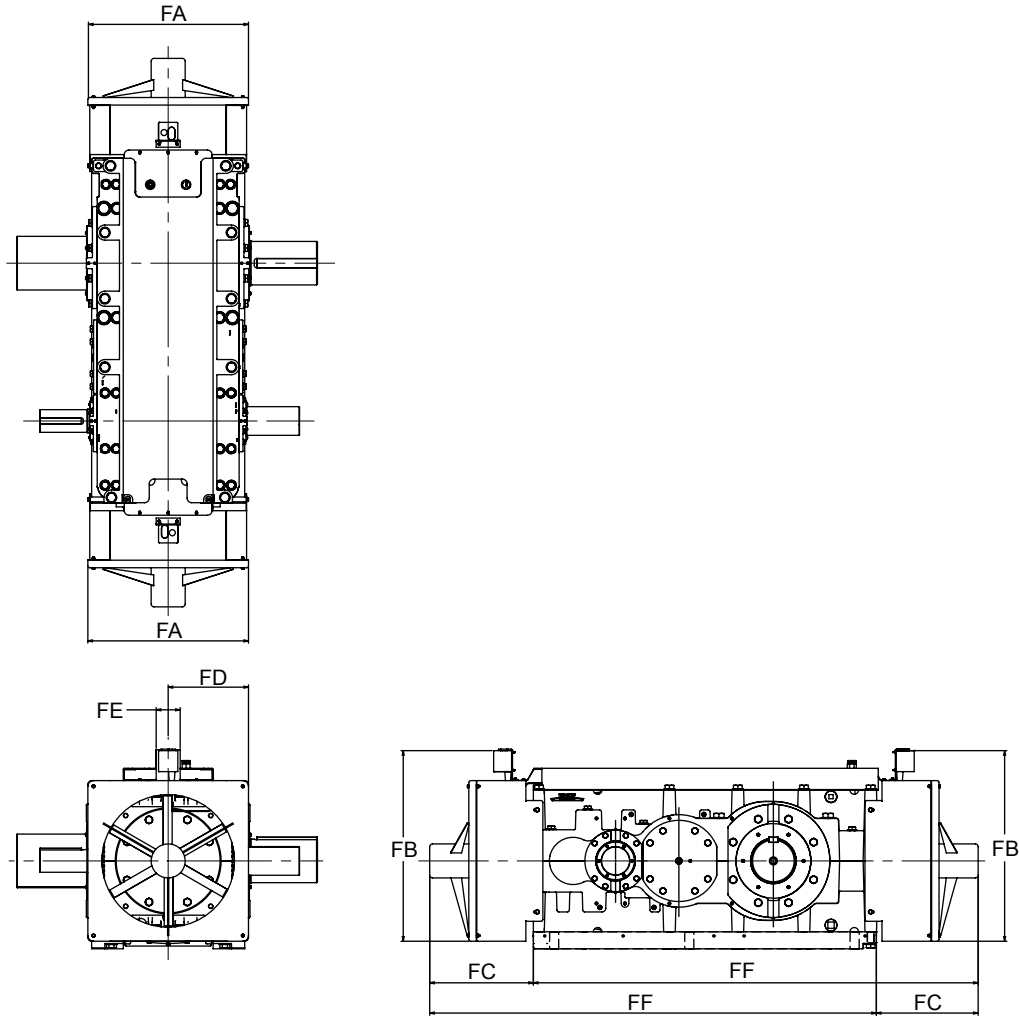
NOTE: ELECTRIC FAN CAN BE MOUNTED ON H.S. END OR L.S. END OF DRIVE

All Reductions and Ratios — Millimeters

| DRIVE SIZE | FA | FB | FC | FD | FE | FF |
|-------------------|-----|------|-----|-----|-----|------|
| 107 | 446 | 618 | 425 | 223 | 127 | 1149 |
| 117 | 496 | 647 | 437 | 248 | 127 | 1245 |
| 127 | 496 | 676 | 458 | 248 | 127 | 1356 |
| 133 137 | 546 | 717 | 475 | 273 | 127 | 1449 |
| 143 145 147 | 546 | 752 | 500 | 273 | 127 | 1577 |
| 153 155 157 | 596 | 797 | 533 | 298 | 127 | 1729 |
| 163 165 167 | 651 | 867 | 525 | 326 | 127 | 1905 |
| 163 165 167 | 726 | 1020 | 627 | 363 | 127 | 2260 |
| 187 | 726 | 1020 | 627 | 363 | 127 | 2260 |

Type VP1, VP2 & VP3 Sizes 193-227

Electric Fan Clearance/Dimensions — Millimeters



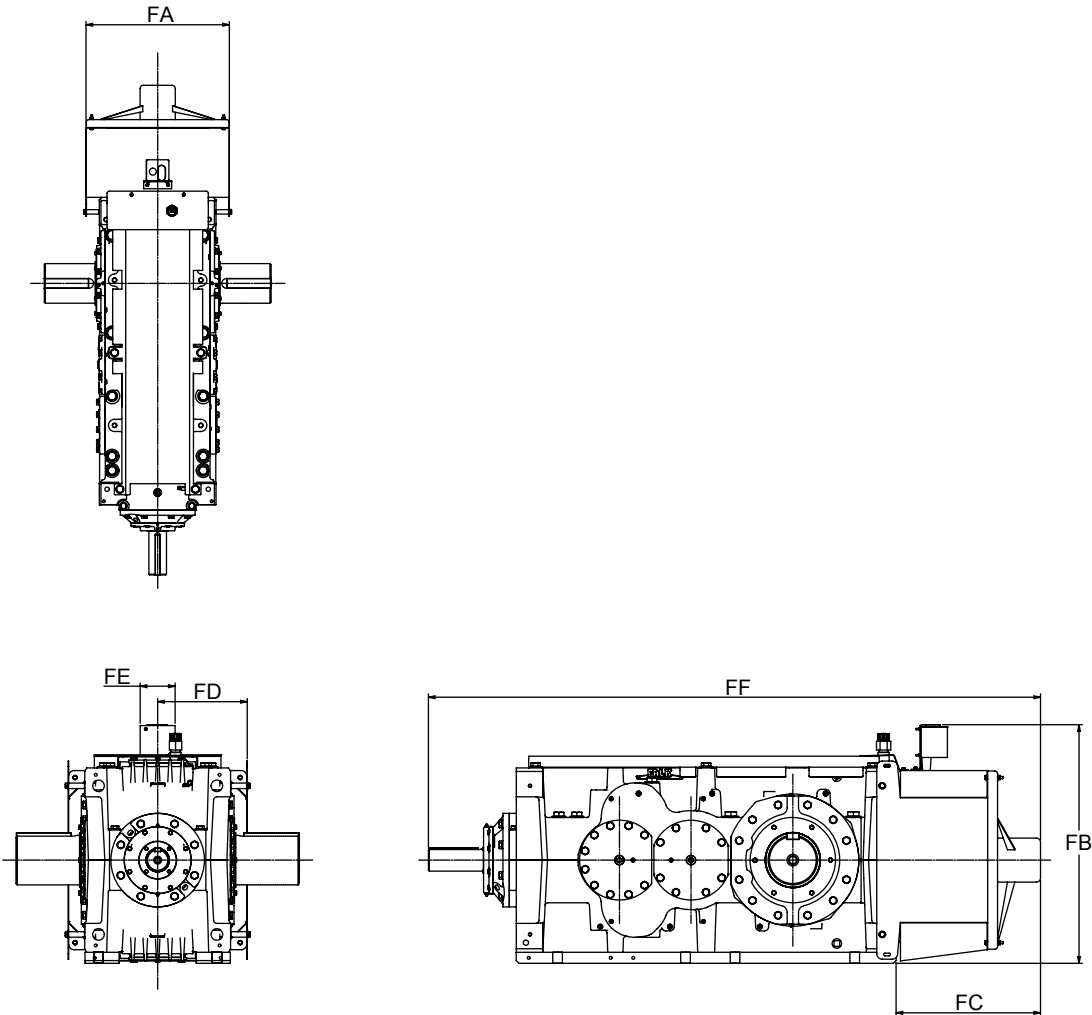
NOTE: ELECTRIC FAN CAN BE MOUNTED ON H.S. END OR L.S. END OF DRIVE

All Reductions and Ratios — Millimeters

| DRIVE SIZE | FA | FB | FC | FD | FE | FF |
|-------------------|-------|--------|-------|-------|-------|--------|
| 193 195 197 | 850,0 | 1053,5 | 538,5 | 425,0 | 127,0 | 2363,5 |
| 203 207 | 850,0 | 1053,5 | 538,5 | 425,0 | 127,0 | 2363,5 |
| 213 215 217 | 850,0 | 1179,0 | 531,6 | 425,0 | 127,0 | 2670,6 |
| 223 225 227 | 850,0 | 1179,0 | 531,6 | 425,0 | 127,0 | 2670,6 |

Type VR2 & VR3 All Reductions — Sizes 107-187

Electric Fan Clearance/Dimensions — Millimeters



VR2 All Reductions and Ratios — Millimeters

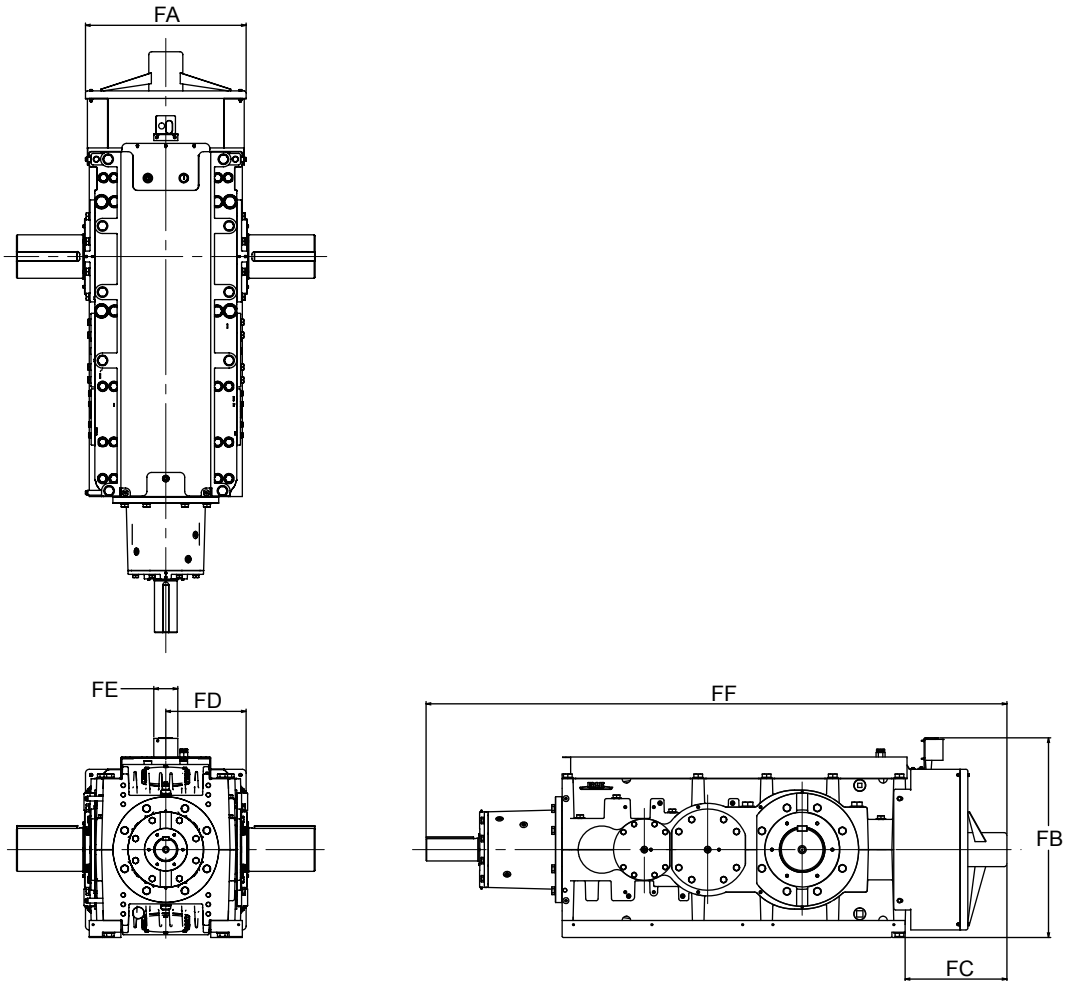
| DRIVE SIZE | FA | FB | FC | FD | FE | FF |
|-------------------|-----|------|-----|-----|-----|------|
| 107 | 446 | 618 | 425 | 223 | 127 | 1401 |
| 117 | 496 | 647 | 437 | 248 | 127 | 1512 |
| 127 | 496 | 676 | 458 | 248 | 127 | 1631 |
| 133 137 | 546 | 717 | 475 | 273 | 127 | 1776 |
| 143 145 147 | 546 | 752 | 500 | 273 | 127 | 1879 |
| 153 155 157 | 596 | 797 | 533 | 298 | 127 | 2074 |
| 163 165 167 | 651 | 867 | 525 | 326 | 127 | 2225 |
| 163 165 167 | 726 | 1020 | 627 | 363 | 127 | 2637 |
| 187 | 726 | 1020 | 627 | 363 | 127 | 2637 |

VR3 All Reductions and Ratios — Millimeters

| DRIVE SIZE | FA | FB | FC | FD | FE | FF |
|-------------------|-----|------|-----|-----|-----|------|
| 107 | 446 | 618 | 425 | 223 | 127 | 1401 |
| 117 | 496 | 647 | 437 | 248 | 127 | 1512 |
| 127 | 496 | 676 | 458 | 248 | 127 | 1631 |
| 133 137 | 546 | 717 | 475 | 273 | 127 | 1776 |
| 143 145 147 | 546 | 752 | 500 | 273 | 127 | 1879 |
| 153 155 157 | 596 | 797 | 533 | 298 | 127 | 2074 |
| 163 165 167 | 651 | 867 | 525 | 326 | 127 | 2225 |
| 163 165 167 | 726 | 1020 | 627 | 363 | 127 | 2637 |
| 187 | 726 | 1020 | 627 | 363 | 127 | 2637 |

Type VR3 All Reductions — Sizes 193-227

Electric Fan Clearance/Dimensions — Millimeters



All Reductions and Ratios — Millimeters

| DRIVE SIZE | FA | FB | FC | FD | FE | FF |
|-------------------|-------|--------|-------|-------|-------|--------|
| 193 195 197 | 850,0 | 1053,5 | 538,5 | 425,0 | 127,0 | 3073,5 |
| 203 207 | 850,0 | 1053,5 | 538,5 | 425,0 | 127,0 | 3073,5 |
| 213 215 217 | 850,0 | 1179,0 | 531,6 | 425,0 | 127,0 | 3303,6 |
| 223 225 227 | 850,0 | 1179,0 | 531,6 | 425,0 | 127,0 | 3303,6 |

Type VP1

Pump and Cooler Selections, Oil-to-Air Coolers, Reducer Mounted

| Input rpm | Nom Ratio | REDUCER SIZE | | | | | | | | | | | | | | | |
|-----------|-----------|--------------|-------|-------|------------|----------------------|-------------------|----------------------|-------------------|-------|-------------------|----------------------|----------------------|----------------------|-------|-------|-------|
| | | 107 | 117 | 127 | 133 137 | 143 145 147 | 153 155 157 | 163 165 167 | 173 175 177 | 187 | 193 195 197 | 203 207 | 213 215 217 | 223 225 227 | | | |
| 1800 | 1,25 | 300PA | 300PA | 305PA | 310PA | Cooler Not Available | 310PA | Cooler Not Available | 630PA | 630PA | 640PA | Cooler Not Available | Cooler Not Available | Cooler Not Available | | | |
| | 1,40 | | | | | 310PA | | 630PA | | | | 640PA | 350PA | 350BPA | | | |
| | 1,60 | | | | | | | | | | | | | | | | |
| | 1,80 | | | | | | | | | | | | | | | | |
| | 2,00 | | | | | | | | | | | | | | | | |
| | 2,24 | | | | | | | | | | | | | | | | |
| | 2,50 | | | | | | | | | | | | | | | | |
| | 2,80 | | | | | | | | | | | | | | | | |
| | 3,15 | | | | | | | | | | | | | | | | |
| | 3,55 | | | | | | | | | | | | | | | | |
| 4,00 | 300PA | 610PA | 620PA | 630PA | 640PA | 640PA | | | | | | | | | | | |
| 4,50 | | | | | | | | | | | | | | | | | |
| 5,00 | 610PA | 620PA | 630PA | 640PA | | | | | | | | | | | | | |
| 1500 | 1,25 | 300PA | 300PA | 305PA | 310PA | 310PA | 320PA | 630PA | 630PA | 640PA | 640PA | 640PA | 640PA | 640PA | | | |
| | 1,40 | | | 305PA | | | | | | | | | | | 630PA | 640PA | 350PA |
| | 1,60 | | | | | | | | | | | | | | | | |
| | 1,80 | | | | | | | | | | | | | | | | |
| | 2,00 | | | | | | | | | | | | | | | | |
| | 2,24 | | | | | | | | | | | | | | | | |
| | 2,50 | | | | | | | | | | | | | | | | |
| | 2,80 | | | | | | | | | | | | | | | | |
| | 3,15 | | | | | | | | | | | | | | | | |
| | 3,55 | | | | | | | | | | | | | | | | |
| 4,00 | 300PA | 610PA | 620PA | 630PA | 640PA | | | | | | | | | | | | |
| 4,50 | | | | | | | | | | | | | | | | | |
| 5,00 | 605PA | 305PA | 610PA | 620PA | 630PA | | | | | | | | | | | | |
| 1200 | 1,25 | 300PA | 300PA | 300PA | 305PA | 310PA | 610PA | 320PA | 620PA | 630PA | 640PA | 640PA | 640PA | 640PA | | | |
| | 1,40 | | | | | | | 610PA | | | | | | | 620PA | 630PA | 640PA |
| | 1,60 | | | | | | | | | | | | | | | | |
| | 1,80 | | | | | | | | | | | | | | | | |
| | 2,00 | | | | | | | | | | | | | | | | |
| | 2,24 | | | | | | | | | | | | | | | | |
| | 2,50 | | | | | | | | | | | | | | | | |
| | 2,80 | | | | | | | | | | | | | | | | |
| | 3,15 | | | | | | | | | | | | | | | | |
| | 3,55 | | | | | | | | | | | | | | | | |
| 4,00 | 610PA | 610PA | 620PA | 630PA | 640PA | | | | | | | | | | | | |
| 4,50 | | | | | | | | | | | | | | | | | |
| 5,00 | 605PA | 305PA | 610PA | 620PA | 630PA | | | | | | | | | | | | |

Minimum mechanical service factor = 1,25
 Maximum ambient temperature = 43°C
 Maximum altitude = 3,300 meters
 For input speeds below 1200 rpm, use 1200 rpm selection

Type VP2

Pump and Cooler Selections, Oil-to-Air Coolers, Reducer Mounted

| Input rpm | Nominal Ratio | REDUCER SIZE | | | | | | | | | | | | |
|-----------|---------------|--------------|-------|-------|------------|-------------------|-------------------|-------------------|-------------------|-------|-------------------|------------|-------------------|-------------------|
| | | 107 | 117 | 127 | 133 137 | 143 145 147 | 153 155 157 | 163 165 167 | 173 173 177 | 187 | 193 195 197 | 203 207 | 213 215 217 | 223 225 227 |
| 1800 | 5,00 | | | | | | | | | | | | | |
| | 5,60 | | | | | | | | | | | | 350BPA | |
| | 6,30 | | | | | 610PA | | 620PA | 630PA | 630PA | 640PA | 640PA | 350PA | 350BPA |
| | 7,10 | | | | | | | | | | | | | 350PA |
| | 8,00 | | | | | | 610PA | | 310PA | | | | | |
| | 9,00 | | | 605PA | | | | | | | | | | |
| | 10,0 | | | | 605PA | | | | | | | | 640PA | |
| | 11,2 | | | | | | | | | | | | | 640PA |
| | 12,5 | 300PA | 300PA | | | 605PA | | | 620PA | 620PA | 630PA | 630PA | | |
| | 14,0 | | | | | 605PA | | | | | | | | |
| | 16,0 | | | | | | | | | | | | | |
| | 18,0 | | | | | | | | | | | | | |
| | 20,0 | | | 300PA | | | 605PA | | 610PA | | | | 630PA | |
| | 22,4 | | | | 300PA | | | | | 610PA | 610PA | 620PA | | 630PA |
| 25,0 | | | | | 300PA | | | | | | | 620PA | | |
| 28,0 | | | | | | | | | | | | | | |
| 1500 | 5,00 | | | | | | | | | | | | | |
| | 5,60 | | | | | | | | | | | 640PA | | |
| | 6,30 | | | | | | | | | | | | | 350PA |
| | 7,10 | | | | | | | 610PA | | 620PA | | 640PA | | |
| | 8,00 | | | | | | | | | | | | | |
| | 9,00 | | | 605PA | | | | | | 620PA | 630PA | | 640PA | |
| | 10,0 | | | | 605PA | | | | | | | | | 640PA |
| | 11,2 | | | | | | | | | | | | | |
| | 12,5 | 300PA | 300PA | | | 605PA | | | | | | 630PA | | |
| | 14,0 | | | | | | | | | | | | | |
| | 16,0 | | | | | | | | | | | | | |
| | 18,0 | | | | | | 605PA | | 610PA | | 610PA | | 630PA | |
| | 20,0 | | | 300PA | | | | | | | 610PA | 620PA | | 630PA |
| | 22,4 | | | | 300PA | | | | | | | | 620PA | |
| 25,0 | | | | | 300PA | | | | | | | | | |
| 28,0 | | | | | | | | | | | | | | |
| 1200 | 5,00 | | | | | | | | | | | | | |
| | 5,60 | | | | | | | | | | | | | |
| | 6,30 | | | | | | | 610PA | | 620PA | | 640PA | | |
| | 7,10 | | | | | | | | | | | | | |
| | 8,00 | | | | | | | | | 620PA | 630PA | 630PA | 640PA | 640PA |
| | 9,00 | | | 605PA | | | | | | | | | | |
| | 10,0 | | | | 605PA | | | | | | | | | |
| | 11,2 | | | | | | | | | | | | | |
| | 12,5 | 300PA | 300PA | | | 605PA | | 610PA | | | | | 630PA | |
| | 14,0 | | | | | | | | | | | | | |
| | 16,0 | | | | | | | | | | | | | |
| | 18,0 | | | | | | | | | | | | | |
| | 20,0 | | | | | | 605PA | | 610PA | | 610PA | | 630PA | |
| | 22,4 | | | 300PA | | | | | | | 610PA | 620PA | 620PA | 630PA |
| 25,0 | | | | 300PA | | | | | | | | | 620PA | |
| 28,0 | | 605PA | | | | | | | | | | | | |

Not applicable.

Minimum mechanical service factor = 1,25

Maximum ambient temperature = 43°C

Maximum altitude = 3,300 meters

For input speeds below 1200 rpm, use 1200 rpm selection

Type VP3

Pump and Cooler Selections, Oil-to-Air Coolers, Reducer Mounted

| Input rpm | Nominal Ratio | REDUCER SIZE | | | | | | | | | | | | |
|-----------|---------------|--------------|-------|-------|------------|-------------------|-------------------|-------------------|-------------------|-------|-------------------|------------|-------------------|-------------------|
| | | 107 | 117 | 127 | 133 137 | 143 145 147 | 153 155 157 | 163 165 167 | 173 175 177 | 187 | 193 195 197 | 203 207 | 213 215 217 | 223 225 227 |
| 1800 | 28,0 | | | | | | | | | | | | | |
| | 31,5 | | | | | | | | | | | | | |
| | 35,5 | | | | | | | | | | | | | |
| | 40,0 | | | | | | | | | | | | 630PA | |
| | 45,0 | | 300PA | | | | | | | | | | | 630PA |
| | 50,0 | | | | | | | | | | | | | |
| | 56,0 | | | | | | | | | | | | | |
| | 63,0 | | | | | | | | | | | 620PA | | |
| | 71,0 | 300PA | | 605PA | 605PA | 605PA | 605PA | 610PA | 610PA | 610PA | 620PA | 620PA | | |
| | 80,0 | | | | | | | | | | | | 620PA | |
| | 90,0 | | | | | | | | | | | | | |
| | 100 | | 605PA | | | | | | | | | | | 620PA |
| | 112 | | | | | | | | | | | | | |
| | 125 | | | | | | | | | | | | | |
| 140 | | | | | | | | | | | | | | |
| 160 | | | | | | | | | | | | | | |
| 1500 | 28,0 | | | | | | | | | | | | | |
| | 31,5 | | | | | | | | | | | | | |
| | 35,5 | | | | | | | | | | | | | |
| | 40,0 | | | | | | | | | | | | 630PA | |
| | 45,0 | | | | | | | | | | | | | 630PA |
| | 50,0 | | | | | | | | | | | | | |
| | 56,0 | | | | | | | | | | | | | |
| | 63,0 | | | | | | | | | | | 620PA | | |
| | 71,0 | 300PA | 605PA | 605PA | 605PA | 605PA | 605PA | 610PA | 610PA | 610PA | 620PA | 620PA | | |
| | 80,0 | | | | | | | | | | | | 620PA | |
| | 90,0 | | | | | | | | | | | | | |
| | 100 | | | | | | | | | | | | | 620PA |
| | 112 | | | | | | | | | | | | | |
| | 125 | | | | | | | | | | | | | |
| 140 | | | | | | | | | | | | | | |
| 160 | | | | | | | | | | | | | | |
| 1200 | 28,0 | | | | | | | | | | | | | |
| | 31,5 | | | | | | | | | | | | | |
| | 35,5 | | | | | | | | | | | | | |
| | 40,0 | | | | | | | | | | | | | 630PA |
| | 45,0 | | | | | | | | | | | | | |
| | 50,0 | | | | | | | | | | | | | |
| | 56,0 | | | | | | | | | | | | | |
| | 63,0 | | | | | | | | | | | 620PA | | |
| | 71,0 | 300PA | 605PA | 605PA | 605PA | 605PA | 605PA | 610PA | 610PA | 610PA | 620PA | 620PA | 620PA | |
| | 80,0 | | | | | | | | | | | | | |
| | 90,0 | | | | | | | | | | | | | 620PA |
| | 100 | | | | | | | | | | | | | |
| | 112 | | | | | | | | | | | | | |
| | 125 | | | | | | | | | | | | | |
| 140 | | | | | | | | | | | | | | |
| 160 | | | | | | | | | | | | | | |

Not applicable.

Minimum mechanical service factor = 1,25
 Maximum ambient temperature = 43°C
 Maximum altitude = 3,300 meters
 For input speeds below 1200 rpm, use 1200 rpm selection

Type VR2

Pump and Cooler Selections, Oil-to-Air Coolers, Reducer Mounted

| Input rpm | Nominal Ratio | REDUCER SIZE | | | | | | | | | | |
|-----------|---------------|--------------|-------|-------|------------|-------------------|-------------------|-------------------|-------------------|-------|-------|--|
| | | 107 | 117 | 127 | 133 137 | 143 145 147 | 153 155 157 | 163 165 167 | 173 175 177 | 187 | | |
| 1800 | 6,30 | | | | | | | | | | | |
| | 7,10 | | | | | 605PA | | | | | | |
| | 8,00 | 300PA | 300PA | 605PA | 605PA | 610PA | 610PA | 310PA | 630PA | 630PA | | |
| | 9,00 | | | | | 605PA | | | | | | |
| | 10,0 | | | | | | | | | | | |
| | 11,2 | | | 300PA | | | | | | | | |
| | 12,5 | | | | | | | | | | 610PA | |
| 6,30 | | | | | | | | | | | | |
| 7,10 | 300PA | 300PA | 605PA | 605PA | 605PA | 610PA | 310PA | 630PA | 630PA | | | |
| 8,00 | | | | | | | | | | | | |
| 9,00 | | | | | | | | | | 300PA | | |
| 10,0 | | | | | | | | | | | | |
| 11,2 | | | 605PA | | | | | | | | | |
| 12,5 | | 605PA | | | | | | | | | | |
| 6,30 | | | | | | | | | | | | |
| 7,10 | 300PA | 300PA | | 605PA | 605PA | 610PA | 310PA | 630PA | 630PA | | | |
| 8,00 | | | | | | | | | | | | |
| 9,00 | | | | | | | | | | 605PA | | |
| 10,0 | | | | | | | | | | | | |
| 11,2 | | | | | | | | | | | | |
| 12,5 | | | 605PA | | | | | | | | | |

Not applicable.

Minimum mechanical service factor = 1,25

Maximum ambient temperature = 43°C

Maximum altitude = 3,300 meters

For input speeds below 1200 rpm, use 1200 rpm selection

Type VR3

Pump and Cooler Selections, Oil-to-Air Coolers, Reducer Mounted

| Input rpm | Nominal Ratio | REDUCER SIZE | | | | | | | | | | | | | |
|-------------|---------------|--------------|-------|-------|------------|-------------------|-------------------|-------------------|-------------------|-----|-------------------|------------|-------------------|-------------------|--|
| | | 107 | 117 | 127 | 133 137 | 143 145 147 | 153 155 157 | 163 165 167 | 173 175 177 | 187 | 193 195 197 | 203 207 | 213 215 217 | 223 225 227 | |
| 1800 | 8,00 | | | | | | | | | | | | | | |
| | 9,00 | | | | | | | | | | | | | | |
| | 10,0 | | | | | | | | | | | | | | |
| | 11,2 | | | | | | | | | | | | | | |
| | 12,5 | | | | | | | | | | | | | | |
| | 14,0 | | | | | | | | | | | | | | |
| | 16,0 | | | | | | | | | | | | | | |
| | 18,0 | | 300PA | | | | | | | | | | | | |
| | 20,0 | | | | | | | | | | | | | | |
| | 22,4 | | | | | | | | | | | | | | |
| | 25,0 | | | | | | | | | | | | | | |
| | 28,0 | | | | | | | | | | | | | | |
| | 31,5 | | | | | | | | | | | | | | |
| | 35,5 | | | | | | | | | | | | | | |
| | 40,0 | 300PA | | 605PA | 605PA | 605PA | | | | | | | | | |
| | 45,0 | | | | | | | | | | | | | | |
| | 50,0 | | | | | | | | | | | | | | |
| | 56,0 | | 605PA | | | | | | | | | | | | |
| | 63,0 | | | | | | | | | | | | | | |
| | 71,0 | | | | | | | | | | | | | | |
| 80,0 | | | | | | | | | | | | | | | |
| 90,0 | | | | | | | | | | | | | | | |
| 100 | | | | | | | | | | | | | | | |
| 112 | | | | | | | | | | | | | | | |
| 125 | | | | | | | | | | | | | | | |
| 1500 | 8,00 | | | | | | | | | | | | | | |
| | 9,00 | | | | | | | | | | | | | | |
| | 10,0 | | | | | | | | | | | | | | |
| | 11,2 | | | | | | | | | | | | | | |
| | 12,5 | | | | | | | | | | | | | | |
| | 14,0 | | | | | | | | | | | | | | |
| | 16,0 | | | | | | | | | | | | | | |
| | 18,0 | | | | | | | | | | | | | | |
| | 20,0 | | | | | | | | | | | | | | |
| | 22,4 | | | | | | | | | | | | | | |
| | 25,0 | | | | | | | | | | | | | | |
| | 28,0 | | | | | | | | | | | | | | |
| | 31,5 | | | | | | | | | | | | | | |
| | 35,5 | | | | | | | | | | | | | | |
| | 40,0 | 300PA | | 605PA | 605PA | 605PA | | | | | | | | | |
| | 45,0 | | | | | | | | | | | | | | |
| | 50,0 | | | | | | | | | | | | | | |
| | 56,0 | | 605PA | | | | | | | | | | | | |
| | 63,0 | | | | | | | | | | | | | | |
| | 71,0 | | | | | | | | | | | | | | |
| 80,0 | | | | | | | | | | | | | | | |
| 90,0 | | | | | | | | | | | | | | | |
| 100 | | | | | | | | | | | | | | | |
| 112 | | | | | | | | | | | | | | | |
| 125 | | | | | | | | | | | | | | | |

Not applicable.

Minimum mechanical service factor = 1,25
 Maximum ambient temperature = 43°C
 Maximum altitude = 3,300 meters
 For input speeds below 1200 rpm, use 1200 rpm selection

Type VR3

Pump and Cooler Selections, Oil-to-Air Coolers, Reducer Mounted

| Input rpm | Nominal Ratio | REDUCER SIZE | | | | | | | | | | | | | |
|-----------|---------------|--------------|-------|-----|------------|-------------------|-------------------|-------------------|-------------------|-------|-------------------|------------|-------------------|-------------------|-------|
| | | 107 | 117 | 127 | 133 137 | 143 145 147 | 153 155 157 | 163 165 167 | 173 175 177 | 187 | 193 195 197 | 203 207 | 213 215 217 | 223 225 227 | |
| 1200 | 8,00 | | | | | | | | | | | | | | |
| | 9,00 | | | | | | | | | | | | | | |
| | 10,0 | | | | | | | | | | | | | | |
| | 11,2 | | | | | | | | | | | | | | |
| | 12,5 | | | | | | | | | | | | | | |
| | 14,0 | | | | | | | | | | | | | | |
| | 16,0 | | 300PA | | | | | 610PA | | 620PA | | 630PA | | 640PA | |
| | 18,0 | | | | | | | | 620PA | | | 630PA | | | 640PA |
| | 20,0 | | | | | | | | | 620PA | | | | | |
| | 22,4 | | | | | | | | | | | | 630PA | | |
| | 25,0 | | | | | | | | | | | | | | |
| | 28,0 | | | | | | | | | | | | | | |
| | 31,5 | | | | | | | | | | | | | | |
| | 35,5 | | | | | | | | | | | | | | |
| | 40,0 | | 300PA | | 605PA | 605PA | 605PA | | | | | | | | 630PA |
| | 45,0 | | | | | | | 605PA | | | | | | | |
| | 50,0 | | 605PA | | | | | | 610PA | 610PA | | 620PA | | | |
| | 56,0 | | | | | | | | | | | | | | |
| | 63,0 | | | | | | | | | | | | | | |
| | 71,0 | | | | | | | | | | 610PA | | 620PA | 620PA | |
| 80,0 | | | | | | | | | | | | | | 620PA | |
| 90,0 | | | | | | | | | | | | | | | |
| 100 | | | | | | | | | | | | | | | |
| 112 | | | | | | | | | | | | | | | |
| 125 | | | | | | | | | | | | | | | |

Not applicable.

Minimum mechanical service factor = 1,25

Maximum ambient temperature = 43°C

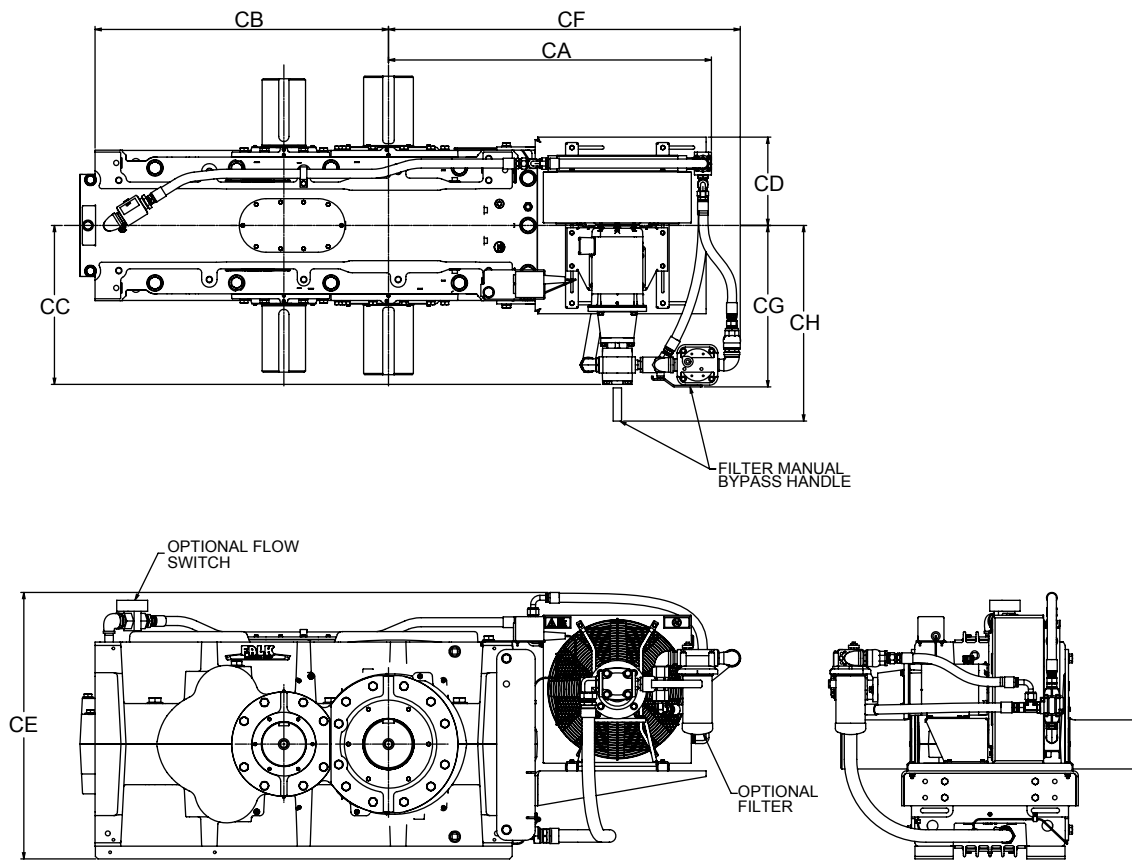
Maximum altitude = 3,300 meters

For input speeds below 1200 rpm, use 1200 rpm selection

Type VP1, VP2, VP3, VR2 & VR3 600PA Sizes 117-187

Type PA Pump and Cooler Clearance/Dimensions — Millimeters

Contact Factory for 300PA Dimensions — Millimeters

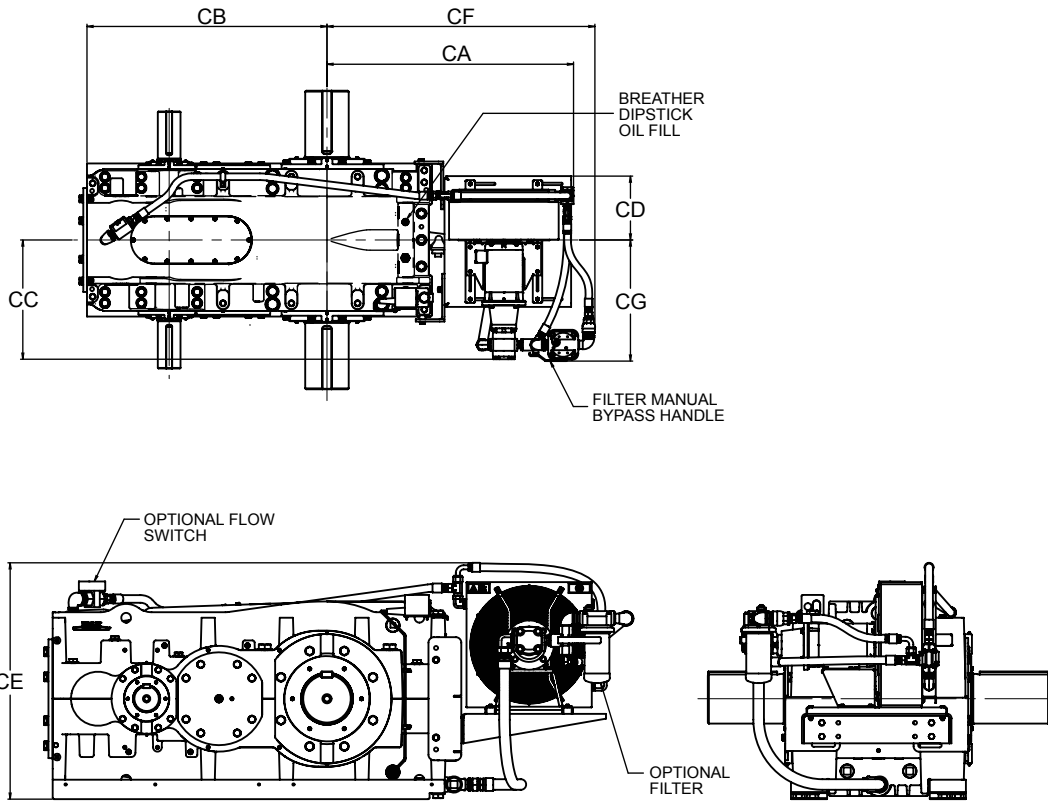


| DRIVE SIZE | Pump & Cooler | CA | CB | CC | CD | CE | Optional Filter | | |
|-------------------|---------------|--------|------|-------|-------|--------|-----------------|-------|-------|
| | | | | | | | CF | CG | CH |
| 117 | 605PA | 921,7 | 576 | 616,5 | 314,3 | 803,2 | 989,1 | --- | 751,6 |
| | 610PA | 889,0 | 650 | 609,6 | 324,2 | 817,1 | 956,3 | --- | 741,8 |
| 127 | 605PA | 892,9 | 650 | 642,9 | 314,3 | 894,2 | 918,1 | --- | 775,1 |
| | 610PA | 914,9 | 710 | 619,5 | 314,3 | 868,5 | 984,4 | --- | 751,6 |
| 133 137 | 610PA | 914,9 | 710 | 642,9 | 314,3 | 930,5 | 933,8 | --- | 775,1 |
| | 620PA | 1041,9 | 710 | 562,4 | 360,8 | 1008,3 | 1168,2 | 618,1 | --- |
| 143 145 147 | 605PA | 935,9 | 800 | 615,9 | 314,3 | 852,8 | 1005,4 | --- | 751,6 |
| | 610PA | 935,9 | 800 | 642,9 | 314,3 | 914,8 | 954,9 | --- | 775,1 |
| | 620PA | 1062,9 | 800 | 577 | 346,1 | 992,6 | 1189,2 | 632,8 | --- |
| | 630PA | 1164,5 | 800 | 647,2 | 365,1 | 1161,4 | 1337,4 | 702,9 | --- |
| 153 155 157 | 605PA | 968,9 | 895 | 619,5 | 314,3 | 820,6 | 1038,4 | --- | 751,6 |
| | 610PA | 968,9 | 895 | 612,5 | 314,3 | 882,6 | 987,7 | --- | 775,1 |
| | 620PA | 1095,9 | 895 | 577 | 346,1 | 981,3 | 1221,8 | 632,8 | --- |
| | 630PA | 1197,5 | 895 | 647,2 | 365,1 | 1149,8 | 1370 | 702,9 | --- |
| 163 165 167 | 610PA | 1062,5 | 1005 | 620,6 | 314,3 | 944,5 | 1057,9 | --- | 775,1 |
| | 620PA | 1154,3 | 1005 | 622,9 | 346,1 | 1022,3 | 1261,6 | 632,8 | --- |
| | 630PA | 1288,0 | 1005 | 696,1 | 365,1 | 1191,1 | 1395,6 | 702,9 | --- |
| 173 175 177 | 610PA | 1175,9 | 1150 | 620,6 | 314,3 | 967,0 | 1177,8 | --- | 775,1 |
| | 620PA | 1263,9 | 1150 | 622,9 | 346,1 | 1044,5 | 1378,6 | 632,8 | --- |
| | 630PA | 1399,6 | 1150 | 696,1 | 365,1 | 1213,3 | 1513,1 | 702,9 | --- |
| 187 | 610PA | 1200,9 | 1175 | 620,6 | 314,3 | 967,0 | 1202,8 | --- | 775,1 |
| | 620PA | 1238,9 | 1175 | 622,9 | 346,1 | 1044,5 | 1353,6 | 632,8 | --- |
| | 630PA | 1374,6 | 1175 | 696,1 | 365,1 | 1213,3 | 1488,1 | 702,9 | --- |

Type VP1, VP2, VP3, & VR3 600PA Sizes 193-227

Type PA Pump and Cooler Clearance/Dimensions — Millimeters

Contact Factory for 300PA Dimensions — Millimeters



| DRIVE SIZE | Pump & Cooler | CA | CB | CC | CD | CE | Optional Filter | |
|-------------------|---------------|--------|------|-------|-------|--------|-----------------|-------|
| | | | | | | | CF | CG |
| 193 195 197 | 620PA | 1344,8 | 1230 | 631,0 | 338,0 | 1094,4 | 1457,8 | 640,9 |
| | 630PA | 1494,1 | 1230 | 696,5 | 364,7 | 1327,9 | 1606,0 | 703,4 |
| | 640PA | 1825,8 | 1230 | 830,0 | 513,1 | 1654,6 | 1772,2 | 833,7 |
| 203 207 | 620PA | 1304,8 | 1270 | 631,0 | 338,0 | 1094,4 | 1417,8 | 640,9 |
| | 630PA | 1454,1 | 1270 | 696,5 | 364,7 | 1327,9 | 1566,0 | 703,4 |
| | 640PA | 1785,8 | 1270 | 830,0 | 513,1 | 1654,6 | 1732,2 | 833,7 |
| 213 215 217 | 620PA | 1450,0 | 1439 | 623,3 | 345,6 | 1179,4 | 1562,8 | 633,2 |
| | 630PA | 1599,1 | 1439 | 696,5 | 364,7 | 1412,9 | 1711,0 | 703,4 |
| | 640PA | 1930,8 | 1439 | 835,5 | 507,6 | 1723,8 | 1877,2 | 839,2 |
| 223 225 227 | 620PA | 1400,0 | 1489 | 623,3 | 345,6 | 1179,4 | 1512,8 | 633,2 |
| | 630PA | 1549,1 | 1489 | 696,5 | 364,7 | 1412,9 | 1661,0 | 703,4 |
| | 640PA | 1880,8 | 1489 | 835,5 | 507,6 | 1723,8 | 1827,2 | 839,2 |

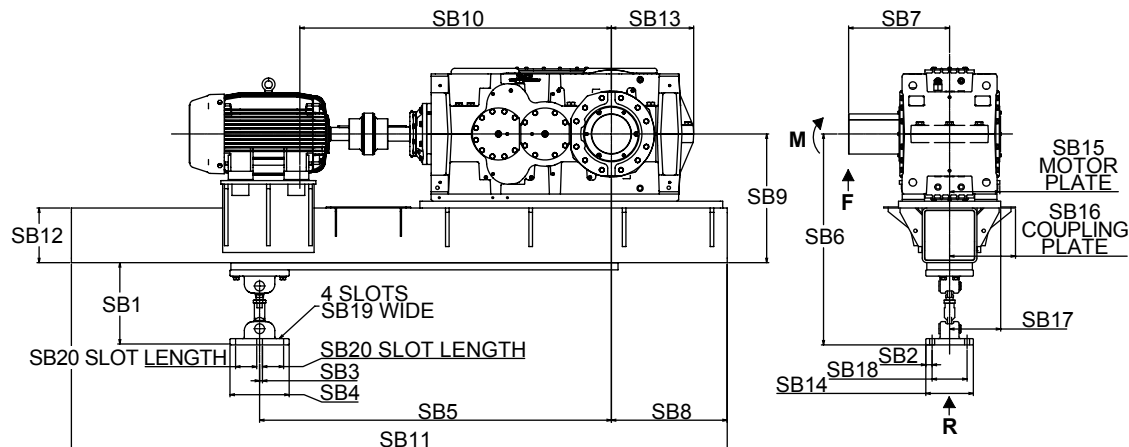
Type VRC2 & VRC3 Sizes 107-187

Swing Base and Reaction Loads/Dimensions — Millimeters

DRIVE DIMENSIONS - REFER TO PAGE 206-208, 210, 212 & 214

STANDARD ARRANGEMENTS AVAILABLE TO SUIT:
 VRC Drives (Solid LS Shaft)
 NEMA or IEC Motors to limits shown below
 Falk Steelflex (T10), Falk Wrapflex (R10), or Falk Fluid Couplings

Consult the Factory for non-standard arrangements.



Dimensions - Millimeters

| DRIVE SIZE | SB1 | | SB2 | SB3 | SB4 | SB5 | SB6 | | SB7 | SB8 | SB9 | SB10 | SB11 | SB12 | SB13 | SB14 | SB15 | SB16 | SB17 | SB18 | SB19 | SB20 |
|---------------|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|
| | Min | Max | | | | | Min | Max | | | | | | | | | | | | | | |
| 107 | 352 | 366 | 35 | 16 | 330 | 1454 | * | * | 242 | 372 | * | * | * | 152 | 261 | 265 | * | * | 185 | 195 | 28 | 118 |
| 117 | 352 | 366 | 35 | 16 | 330 | 1517 | * | * | 267 | 309 | * | * | * | 152 | 286 | 265 | * | * | 185 | 195 | 28 | 118 |
| 127 | 411 | 425 | 35 | 16 | 330 | 1566 | * | * | 373 | 260 | * | * | * | 152 | 305 | 265 | * | * | 185 | 195 | 28 | 118 |
| 133, 137 | 426 | 440 | 35 | 16 | 330 | 1701 | * | * | 303 | 470 | * | * | * | 254 | 332 | 265 | * | * | 235 | 195 | 28 | 118 |
| 143, 145, 147 | 426 | 440 | 35 | 16 | 330 | 1681 | 1027 | 1041 | 300 | 395 | 601 | * | * | 254 | 353 | 265 | * | * | 235 | 195 | 28 | 118 |
| 153, 155, 157 | 447 | 470 | 35 | 16 | 330 | 1646 | 1068 | 1091 | 328 | 330 | 621 | * | * | 254 | 389 | 265 | * | * | 235 | 195 | 28 | 118 |
| 163, 165, 167 | 447 | 470 | 35 | 16 | 330 | 1962 | 1165 | 1188 | 515 | 646 | 718 | * | * | 305 | 459 | 265 | * | * | 285 | 195 | 28 | 118 |
| 173, 175, 177 | 477 | 493 | 35 | 16 | 330 | 2540 | 1270 | 1285 | 585 | 460 | 793 | * | * | 305 | 584 | 265 | * | * | 285 | 195 | 28 | 118 |
| 187 | 477 | 493 | 35 | 16 | 330 | 2565 | 1270 | 1285 | 585 | 435 | 793 | * | * | 305 | 559 | 265 | * | * | 285 | 195 | 28 | 118 |

* Consult Factory.

Loads Generated/Torque Arm Forces, Shaft Forces & Motor Limits

| DRIVE SIZE★ | Maximum Torque Arm Force † | Maximum Loads at End of Shaft † | | IEC Motors ‡ | | NEMA Motors ‡ | |
|---------------|----------------------------|---------------------------------|---------------|--------------|-------------|---------------|-------------|
| | | Radial Force | Bending Force | Frame | Weight (kg) | Frame | Weight (kg) |
| | | R (N) | F (N) | M (Nm) | | | |
| 107 | 15,900 | 14,800 | 3,600 | 200L-225M | 240-330 | 324T-365T | 256-397 |
| 117 | 26,100 | 20,100 | 5,400 | 200L-280M | 240-660 | 324T-444T | 256-748 |
| 127 | 34,000 | 28,200 | 10,500 | 200L-280M | 240-660 | 324T-447T | 256-907 |
| 133, 137 | 46,900 | 39,500 | 16,600 | 160M-280M | 108-660 | 254T-449T | 113-1043 |
| 143, 145, 147 | 61,600 | 52,900 | 22,700 | 160L-315L | 130-1200 | 284T-449T | 152-1043 |
| 153, 155, 157 | 84,400 | 72,700 | 33,100 | 180M-315L | 165-1200 | 286T-449T | 186-1043 |
| 163, 165, 167 | 107,700 | 93,200 | 48,000 | 200M-355L | 240-2000 | 324T-449T | 256-1043 |
| 173, 175, 177 | 136,000 | 100,300 | 58,700 | 315S-400L | 830-3000 | 404T-449T | 499-1043 |
| 187 | 140,700 | 112,600 | 65,900 | 315S-400L | 830-3000 | 404T-449T | 499-1043 |

★ The loads generated are based on a combination of the most unfavorable conditions of rotation, speed, selection horsepower, motor weight and a 200% start factor.

† Values for R, F and M are the maximum loads at the position shown during start-up. The loads may NOT be acting in the direction of the arrows. Use the worst case loading condition when designing the driven equipment.

‡ Refer to the Factory for larger motors or other input speeds.

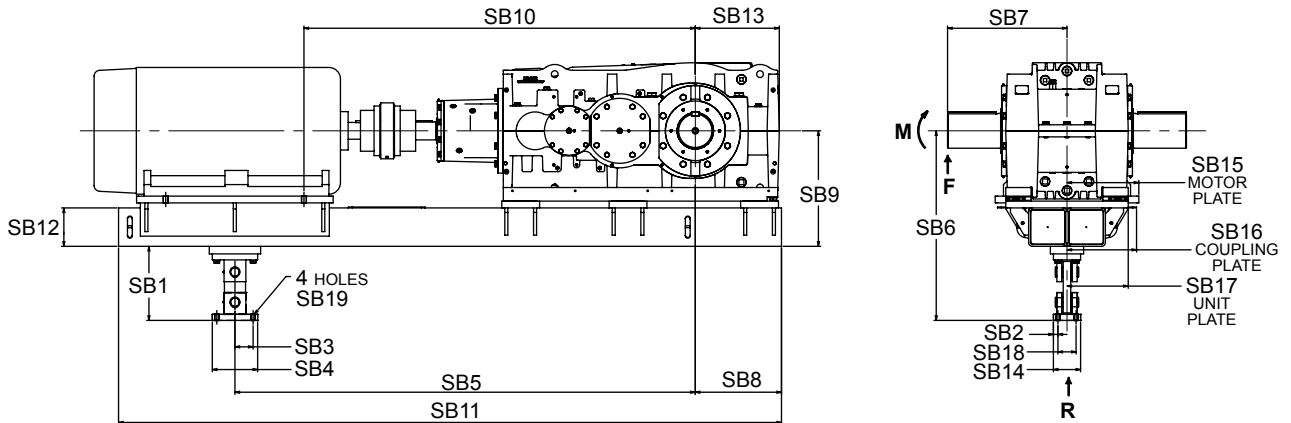
Type VRC3 Sizes 193-227

Swing Base and Reaction Loads/Dimensions — Millimeters

DRIVE DIMENSIONS - REFER TO PAGE 211, 213 & 215

STANDARD ARRANGEMENTS AVAILABLE TO SUIT:
 VRC Drives (Solid LS Shaft)
 NEMA or IEC Motors to limits shown below
 Falk Steelflex (T10), Falk Wrapflex (R10), or Falk Fluid Couplings

Consult the Factory for non-standard arrangements.



Dimensions - Millimeters

| DRIVE SIZE | SB1 | SB2 | SB3 | SB4 | SB5 | SB6 | SB7 | SB8 | SB9 | SB10 | SB11 | SB12 | SB13 | SB14 | SB15 | SB16 | SB17 | SB18 | SB19 |
|---------------|-------|------|-------|-------|-----|--------|-------|-------|-------|------|------|-------|-------|-------|------|------|-------|-------|------|
| 193, 195, 197 | 490,0 | 30,0 | 120,0 | 300,0 | * | 1254,0 | 790,0 | 610,0 | 764,0 | * | * | 254,0 | 595,5 | 180,0 | * | * | 469,9 | 120,0 | 28,0 |
| 203, 207 | 490,0 | 30,0 | 120,0 | 300,0 | * | 1254,0 | 790,0 | 570,0 | 764,0 | * | * | 254,0 | 555,5 | 180,0 | * | * | 469,9 | 120,0 | 28,0 |
| 213, 215, 217 | 490,0 | 30,0 | 120,0 | 300,0 | * | 1395,0 | 895,0 | 700,0 | 905,0 | * | * | 304,8 | 699,7 | 180,0 | * | * | 469,9 | 120,0 | 28,0 |
| 223, 225, 227 | 490,0 | 30,0 | 120,0 | 300,0 | * | 1395,0 | 895,0 | 650,0 | 905,0 | * | * | 304,8 | 649,7 | 180,0 | * | * | 469,9 | 120,0 | 28,0 |

* Consult Factory.

Loads Generated/Torque Arm Forces, Shaft Forces & Motor Limits

| DRIVE SIZE★ | Maximum Torque Arm Force † | Maximum Loads at End of Shaft † | | Motor Limits at 1500 rpm ‡ Maximum | |
|---------------|----------------------------|---------------------------------|---------------|------------------------------------|-------------|
| | | Radial Force | Bending Force | Power (kW) | Weight (kg) |
| | | R (N) | M (N-m) | | |
| 193, 195, 197 | 150,000 | 126,000 | 99,500 | 1100 | 6200 |
| 203, 207 | 158,000 | 135,000 | 107,000 | 1100 | 6200 |
| 213, 215, 217 | 196,000 | 161,000 | 144,000 | 1400 | 8900 |
| 223, 225, 227 | 221,000 | 190,000 | 170,000 | 1400 | 8900 |

★ The loads generated are based on a combination of the most unfavorable conditions of rotation, speed, selection horsepower, motor weight and a 200% start factor.

† Values for R, F and M are the maximum loads at the position shown during start-up. The loads may NOT be acting in the direction of the arrows. Use the worst case loading condition when designing the driven equipment.

‡ Refer to the Factory for larger motors or other input speeds.

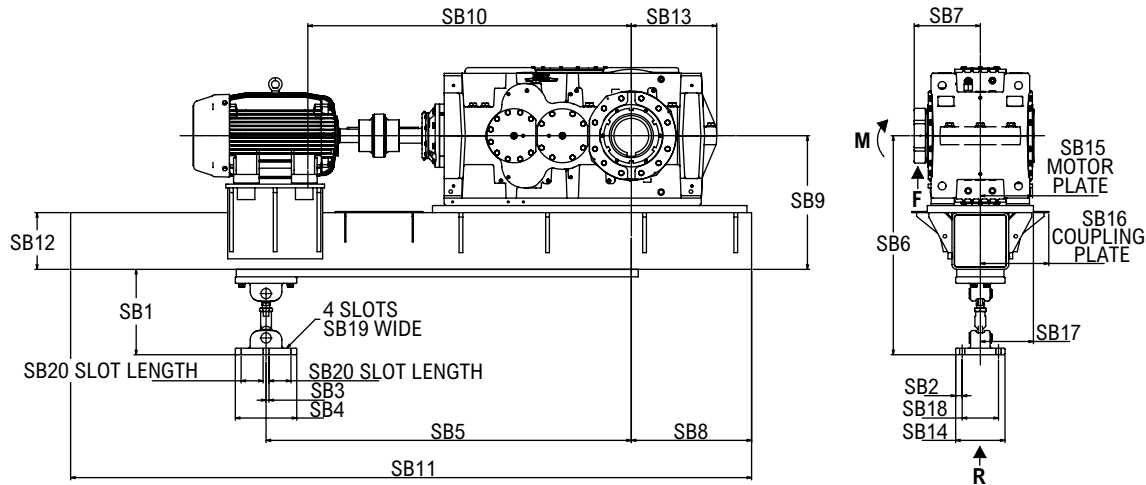
Type VRT2 & VRT3 Sizes 107-187

Swing Base and Reaction Loads/Dimensions — Millimeters

DRIVE DIMENSIONS - REFER TO PAGE 216-221

STANDARD ARRANGEMENTS AVAILABLE TO SUIT:
 VRT Drives (with TA Bushing)
 NEMA or IEC Motors to limits shown below
 Falk Steelflex® (T10), Falk Wrapflex® (R10), or Falk Fluid Couplings

Consult the Factory for non-standard arrangements.



Dimensions - Millimeters

| DRIVE SIZE | SB1 | | SB2 | SB3 | SB4 | SB5 | SB6 | | SB7 | SB8 | SB9 | SB10 | SB11 | SB12 | SB13 | SB14 | SB15 | SB16 | SB17 | SB18 | SB19 | SB20 |
|---------------|-----|-----|-----|-----|-----|------|------|------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|
| | Min | Max | | | | | Min | Max | | | | | | | | | | | | | | |
| 107 | 352 | 366 | 35 | 16 | 330 | 1454 | * | * | 295 | 372 | * | * | * | 152 | 261 | 265 | * | * | 185 | 195 | 28 | 118 |
| 117 | 352 | 366 | 35 | 16 | 330 | 1517 | * | * | 355 | 309 | * | * | * | 152 | 286 | 265 | * | * | 185 | 195 | 28 | 118 |
| 127 | 411 | 425 | 35 | 16 | 330 | 1566 | * | * | 278 | 260 | * | * | * | 152 | 305 | 265 | * | * | 185 | 195 | 28 | 118 |
| 133, 137 | 426 | 440 | 35 | 16 | 330 | 1701 | * | * | 303 | 470 | * | * | * | 254 | 332 | 265 | * | * | 235 | 195 | 28 | 118 |
| 143, 145, 147 | 426 | 440 | 35 | 16 | 330 | 1681 | 1027 | 1041 | 300 | 395 | 601 | * | * | 254 | 353 | 265 | * | * | 235 | 195 | 28 | 118 |
| 153, 155, 157 | 447 | 470 | 35 | 16 | 330 | 1646 | 1068 | 1091 | 328 | 330 | 621 | * | * | 254 | 389 | 265 | * | * | 235 | 195 | 28 | 118 |
| 163, 165, 167 | 447 | 470 | 35 | 16 | 330 | 1962 | 1165 | 1188 | 355 | 646 | 718 | * | * | 305 | 459 | 265 | * | * | 285 | 195 | 28 | 118 |
| 173, 175, 177 | 477 | 493 | 35 | 16 | 330 | 2540 | 1270 | 1285 | 331 | 460 | 793 | * | * | 305 | 584 | 265 | * | * | 285 | 195 | 28 | 118 |
| 187 | 477 | 493 | 35 | 16 | 330 | 2565 | 1270 | 1285 | 331 | 435 | 793 | * | * | 305 | 559 | 265 | * | * | 285 | 195 | 28 | 118 |

* Consult Factory.

Loads Generated★/Torque Arm Forces, Shaft Forces & Motor Limits

| DRIVE SIZE | Maximum Torque Arm Force † | Maximum Loads at Face of Bushing Nut † | | IEC Motors ‡ | | NEMA Motors ‡ | |
|---------------|----------------------------|--|---------------|--------------|-------------|---------------|-------------|
| | | Radial Force | Bending Force | Frame | Weight (kg) | Frame | Weight (kg) |
| | | R (N) | F (N) | M (Nm) | | | |
| 107 | 15,900 | 15,100 | 4,500 | 200L-225M | 240-330 | 324T-365T | 256-397 |
| 117 | 26,100 | 20,500 | 7,300 | 200L-280M | 240-660 | 324T-444T | 256-748 |
| 127 | 34,000 | 27,900 | 7,500 | 200L-280M | 240-660 | 324T-447T | 256-907 |
| 133, 137 | 46,900 | 38,700 | 10,700 | 160M-280M | 108-660 | 254T-449T | 113-1043 |
| 143, 145, 147 | 61,600 | 52,100 | 15,600 | 160L-315L | 130-1200 | 284T-449T | 152-1043 |
| 153, 155, 157 | 84,400 | 71,000 | 23,800 | 180M-315L | 165-1200 | 286T-449T | 186-1043 |
| 163, 165, 167 | 107,700 | 91,900 | 32,600 | 200M-355L | 240-2000 | 324T-449T | 256-1043 |
| 173, 175, 177 | 136,000 | 97,600 | 33,500 | 315S-400L | 830-3000 | 404T-449T | 499-1043 |
| 187 | 140,700 | 111,300 | 36,800 | 315S-400L | 830-3000 | 404T-449T | 499-1043 |

★ The loads generated are based on a combination of the most unfavorable conditions of rotation, speed, selection horsepower, motor weight and a 200% start factor.

† Values for R, F and M are the maximum loads at the position shown during start-up. The loads may NOT be acting in the direction of the arrows. Use the worst case loading condition when designing the driven equipment.

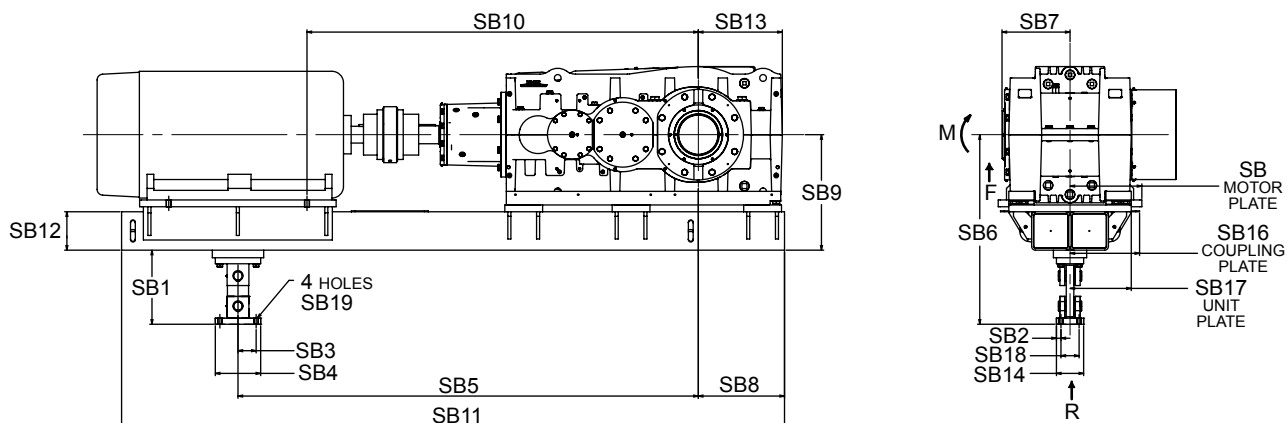
‡ Refer to the factory for larger motors or other input speeds.

Type VRJ3 Sizes 203-207 & 223-227

Swing Base and Reaction Loads/Dimensions — Millimeters

DRIVE DIMENSIONS - REFER TO PAGE 227, 229 & 231

STANDARD ARRANGEMENTS AVAILABLE TO SUIT:
 VRT Drives (with TA Bushing)
 NEMA or IEC Motors to limits shown below
 Falk Steelflex® (T10), Falk Wrapflex® (R10), or Falk Fluid Couplings
 Consult the Factory for non-standard arrangements.



Dimensions - Millimeters

| DRIVE SIZE | SB1 | SB2 | SB3 | SB4 | SB5 | SB6 | SB7 | SB8 | SB9 | SB10 | SB11 | SB12 | SB13 | SB14 | SB15 | SB16 | SB17 | SB18 | SB19 |
|---------------|-------|------|-------|-------|-----|--------|-------|-------|-------|------|------|-------|-------|-------|------|------|-------|-------|------|
| 203, 207 | 490,0 | 30,0 | 120,0 | 300,0 | * | 1254,0 | 450,0 | 570,0 | 764,0 | * | * | 254,0 | 555,5 | 180,0 | * | * | 469,9 | 120,0 | 28,0 |
| 223, 225, 227 | 490,0 | 30,0 | 120,0 | 300,0 | * | 1395,0 | 500,0 | 650,0 | 905,0 | * | * | 304,8 | 649,7 | 180,0 | * | * | 469,9 | 120,0 | 28,0 |

* Consult Factory.

Loads Generated/Torque Arm Forces, Shaft Forces & Motor Limits

| DRIVE SIZE★ | Maximum Torque Arm Force † | Maximum Loads at End of Shaft † | | Motor Limits at 1500 rpm ‡ Maximum | |
|---------------|----------------------------|---------------------------------|---------------|------------------------------------|-------------|
| | | Radial Force | Bending Force | Power (kW) | Weight (kg) |
| | | R (N) | M (N-m) | | |
| 203, 207 | 158,000 | 128,000 | 57,700 | 1100 | 6200 |
| 223, 225, 227 | 221,000 | 182,000 | 91,100 | 1400 | 8900 |

★ The loads generated are based on a combination of the most unfavorable conditions of rotation, speed, selection horsepower, motor weight and a 200% start factor.

† Values for R, F and M are the maximum loads at the position shown during start-up. The loads may NOT be acting in the direction of the arrows. Use the worst case loading condition when designing the driven equipment.

‡ Refer to the factory for larger motors or other input speeds.

Type VRC/VRT Double & Triple Reduction Sizes 117-187

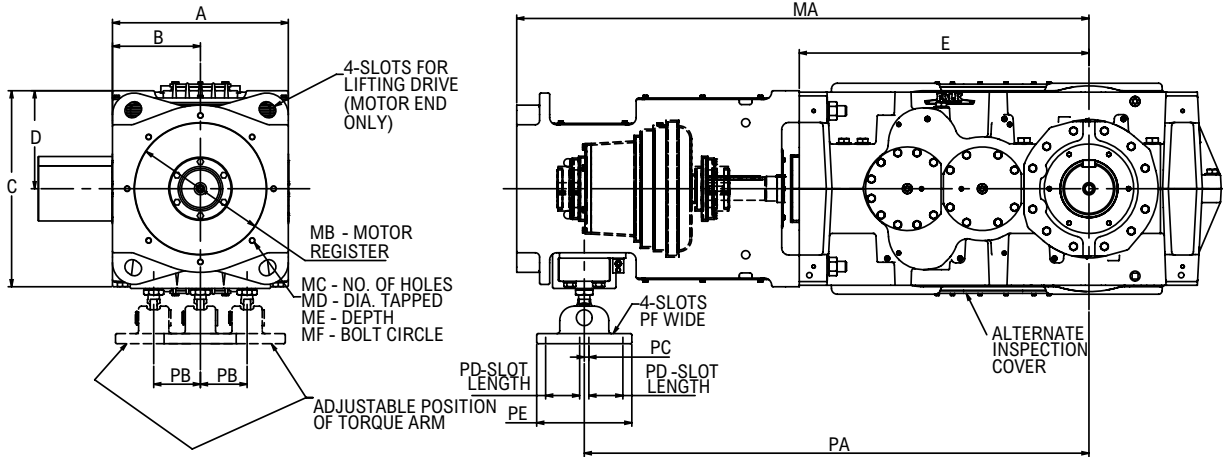
Alignment-Free Drive/Dimensions — Millimeters

DRIVE DIMENSIONS - REFER TO PAGES 206-208, 210, 212, 214 & 216-221

Refer to Page 238-239 for standard bushing bores.

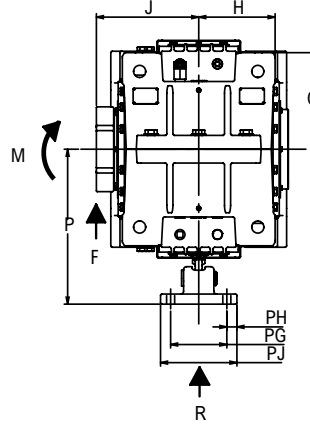
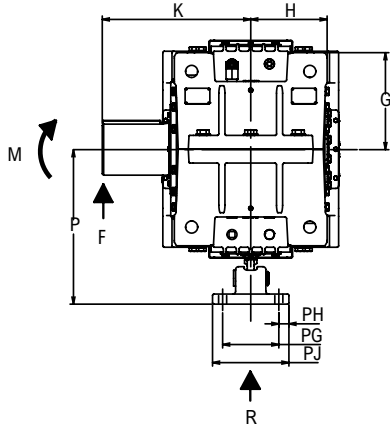
STANDARD ARRANGEMENTS AVAILABLE TO SUIT:
 NEMA TC Flange, NEMA TC C-FACE or IEC B5 Flange Motors as shown below
 Falk True Torque® Fluid (HFDD-20 or 28) Couplings
 Also Falk Lifelign® (G52 Floating Shaft), Steelflex® (T50 Floating Shaft),
 and Thomas® (SN Floating Shaft) couplings

Consult the Factory for non-standard arrangements and non-Falk-branded couplings.



SOLID LOW SPEED SHAFT, VRC

HOLLOW LOW SPEED SHAFT, VRT



Loads Generated/Torque Arm Forces, Low-Speed Shaft Forces

| DRIVE SIZE | Max Torque Arm Force R (N) | Max Loads at Face of Bushing Nut, VRT † | | Max Loads at End of Shaft, VRC † | | Available Motors to Suit Adapter | | | |
|---------------|----------------------------|---|------------------------|----------------------------------|----------------------|----------------------------------|-------------|-----------------|------------------|
| | | Radial Force F (N) | Bending Moment M (N-m) | Radial Force F (N) | Bending Moment M (m) | NEMA | IEC | Siemens | Brook & Crompton |
| 117 | 30,300 | 19,500 | 4,600 | 19,500 | 6,900 | 364T - 445T | 225S - 280S | --- | --- |
| 127 | 43,200 | 29,700 | 7,300 | 28,600 | 10,700 | 364T - 447T | 225S - 280S | --- | --- |
| 133, 137 | 55,100 | 38,200 | 10,600 | 39,000 | 16,500 | 365T - 499T | 225M - 315L | --- | --- |
| 143, 145, 147 | 77,000 | 50,800 | 15,200 | 51,600 | 22,200 | 365T - 499T | 225M - 355S | 5011, 588 | 585, 586, 587SDZ |
| 153, 155, 157 | 110,100 | 63,900 | 21,400 | 65,100 | 29,600 | 404T - 449T | 250M - 355L | 5011, 588, 5809 | 585, 586, 587SDZ |
| 163, 165, 167 | 131,000 | 84,900 | 30,100 | 86,100 | 44,400 | 404T - 449T | 280S - 355L | 5011, 588, 5810 | 585, 586, 587SDZ |
| 173, 175, 177 | 146,000 | 97,500 | 32,300 | 100,000 | 58,600 | 444T - 449T | 280M - 355L | 5011, 588, 5810 | 585, 586, 587SDZ |
| 187 | 154,000 | 115,000 | 38,100 | 118,000 | 69,000 | 444T - 449T | 280M - 355L | 5011, 588, 5810 | 585, 586, 587SDZ |

★ The loads generated are based on a combination of the most unfavorable conditions of rotation, speed, selection horsepower, motor weight, and a 200% start factor.

† Values for R, F, and M are the maximum loads at the position shown during start-up. The loads may NOT be acting in the direction of the arrows. Use the worst case loading condition when designing the driven equipment. Bending Moment is for torque arm located farthest from driven equipment.

Type VRC/VRT Double & Triple Reduction Sizes 117-187

Alignment-Free Drive/Dimensions — Millimeters

Fluid Coupling

| COUPLING SIZE★ | DRIVE SIZE★ | A | B | C | D | P | | PB | PC | PD | PE | PF | PH | PG | PJ |
|----------------|--|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|----|-----|----|-----|
| | | | | | | Min | Max | | | | | | | | |
| 1420HFDD | 127 133, 137 143, 145, 147 153, 155, 157 163, 165, 167 | 610 | 305 | 680 | 340 | 525 | 548 | 162 | 16 | 118 | 330 | 28 | 195 | 35 | 265 |
| 1480HFDD | 127 133, 137 143, 145, 147 153, 155, 157 163, 165, 167 173, 175, 177 187 | 670 | 335 | 810 | 405 | 548 | 571 | 192 | 16 | 118 | 330 | 28 | 195 | 35 | 265 |
| 1584HFDD | 143, 145, 147 153, 155, 157 163, 165, 167 173, 175, 177 187 | 790 | 395 | 810 | 405 | 623 | 643 | 229 | 16 | 118 | 330 | 28 | 195 | 35 | 265 |
| 1660HFDD | 153, 155, 157 163, 165, 167 173, 175, 177 187 | 890 | 445 | 910 | 455 | 673 | 693 | 278 | 16 | 118 | 330 | 28 | 195 | 35 | 265 |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, shaft-mounted operation unless specifically stated otherwise. Consult Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

* Fluid coupling size selected based on motor power. See Falk selection guide, True Torque fluid couplings, 521-110 for information

| DRIVE SIZE★ | E | G | H | J | K | Motor Adapter | | | | | | PA - HS Coupling Size and Type | | | | | | | |
|---------------|------|-----|-----|-----|-----|---------------|----|----|----|----|----|--------------------------------|---------|----------|---------|----------|---------|----------|---------|
| | | | | | | MA | MB | MC | MD | ME | MF | 1420HFDD | | 1480HFDD | | 1584HFDD | | 1660HFDD | |
| | | | | | | | | | | | | Type 20 | Type 28 | Type 20 | Type 28 | Type 20 | Type 28 | Type 20 | Type 28 |
| 117 | 576 | 211 | 183 | 267 | 355 | ‡ | † | 8 | † | † | † | 1278 | 1284 | --- | --- | --- | --- | --- | --- |
| 127 | 650 | 240 | 206 | 278 | 373 | ‡ | † | 8 | † | † | † | 1351 | 1357 | 1407 | 1408 | --- | --- | --- | --- |
| 133, 137 | 710 | 245 | 213 | 303 | 422 | ‡ | † | 8 | † | † | † | 1454 | 1460 | 1497 | 1505 | --- | --- | --- | --- |
| 143, 145, 147 | 800 | 270 | 215 | 300 | 430 | ‡ | † | 8 | † | † | † | 1513 | 1519 | 1561 | 1564 | 1637 | 1638 | --- | --- |
| 153, 155, 157 | 895 | 295 | 245 | 328 | 455 | ‡ | † | 8 | † | † | † | 1641 | 1647 | 1684 | 1692 | 1733 | 1747 | 1839 | 1839 |
| 163, 165, 167 | 1005 | 335 | 265 | 355 | 515 | ‡ | † | 8 | † | † | † | 1751 | 1757 | 1794 | 1802 | 1843 | 1857 | 1943 | 1943 |
| 173, 175, 177 | 1150 | 400 | 295 | 331 | 585 | ‡ | † | 8 | † | † | † | --- | --- | 1992 | 2000 | 2041 | 2055 | 2122 | 2122 |
| 187 | 1175 | 400 | 295 | 331 | 585 | ‡ | † | 8 | † | † | † | --- | --- | 2017 | 2025 | 2066 | 2080 | 2147 | 2147 |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, shaft-mounted operation unless specifically stated otherwise. Consult Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Dimensions vary with motor selections. Certified prints will be provided after receipt or order.

‡ "MA" dimension typically varies from 200% to 250% of "E" dimension.

VFD Floating Shaft Coupling

| DRIVE SIZE★ | Motor Frame | A | B | C | D | P | | PA | PB | PC | PD | PE | PF | PG | PH | PJ | E | G | H | J | K | Motor Adapter | | | | | |
|---------------|-------------|-----|-----|-----|-----|-----|-----|------|-----|----|-----|-----|----|-----|----|-----|------|-----|-------|-----|-----|---------------|----|----|----|----|----|
| | | | | | | Min | Max | | | | | | | | | | | | | | | MA | MB | MC | MD | ME | MF |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 117 | ALL | 610 | 305 | 680 | 340 | 525 | 548 | 1278 | 162 | 16 | 118 | 330 | 28 | 195 | 35 | 265 | 576 | 211 | 183 | 267 | 355 | ‡ | † | 8 | † | † | † |
| 127 | ALL | 610 | 305 | 680 | 340 | 525 | 548 | 1351 | 162 | 16 | 118 | 330 | 28 | 195 | 35 | 265 | 650 | 240 | 206 | 278 | 373 | ‡ | † | 8 | † | † | † |
| 133, 137 | ALL | 610 | 305 | 680 | 340 | 525 | 548 | 1454 | 162 | 16 | 118 | 330 | 28 | 195 | 35 | 265 | 710 | 280 | 212.5 | 303 | 422 | ‡ | † | 8 | † | † | † |
| 143, 145, 147 | ◆ | 610 | 305 | 680 | 340 | 525 | 548 | 1513 | 162 | 16 | 118 | 330 | 28 | 195 | 35 | 265 | 800 | 315 | 215 | 300 | 430 | ‡ | † | 8 | † | † | † |
| | ■ | 790 | 395 | 810 | 405 | 623 | 643 | 1605 | 229 | 16 | 118 | 330 | 28 | 195 | 35 | 265 | | | | | | ‡ | † | 8 | † | † | † |
| 153, 155, 157 | ◆ | 610 | 305 | 680 | 340 | 525 | 548 | 1641 | 162 | 16 | 118 | 330 | 28 | 195 | 35 | 265 | 895 | 335 | 245 | 335 | 455 | ‡ | † | 8 | † | † | † |
| | ■ | 790 | 395 | 810 | 405 | 623 | 643 | 1733 | 229 | 16 | 118 | 330 | 28 | 195 | 35 | 265 | | | | | | ‡ | † | 8 | † | † | † |
| 163, 165, 167 | ◆ | 610 | 305 | 680 | 340 | 525 | 548 | 1751 | 162 | 16 | 118 | 330 | 28 | 195 | 35 | 265 | 1005 | 375 | 265 | 355 | 515 | ‡ | † | 8 | † | † | † |
| | ■ | 790 | 395 | 810 | 405 | 623 | 643 | 1843 | 229 | 16 | 118 | 330 | 28 | 195 | 35 | 265 | | | | | | ‡ | † | 8 | † | † | † |
| 173, 175, 177 | ALL | 790 | 395 | 810 | 405 | 623 | 643 | 2041 | 229 | 16 | 118 | 330 | 28 | 195 | 35 | 265 | 1150 | 450 | 295 | 331 | 585 | ‡ | † | 8 | † | † | † |
| 187 | ALL | 790 | 395 | 810 | 405 | 623 | 643 | 2066 | 229 | 16 | 118 | 330 | 28 | 195 | 35 | 265 | 1175 | 450 | 295 | 331 | 585 | ‡ | † | 8 | † | † | † |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, shaft-mounted operation unless specifically stated otherwise. Consult Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

◆ NEMA 449T (up to and including 300 HP) or IEC 280M and smaller motors.

■ NEMA 449T (larger than 300 HP) or IEC 315S and larger motors.

† Dimensions vary with motor selections. Certified prints will be provided after receipt or order.

‡ "MA" dimension typically varies from 200% to 250% of "E" dimension.

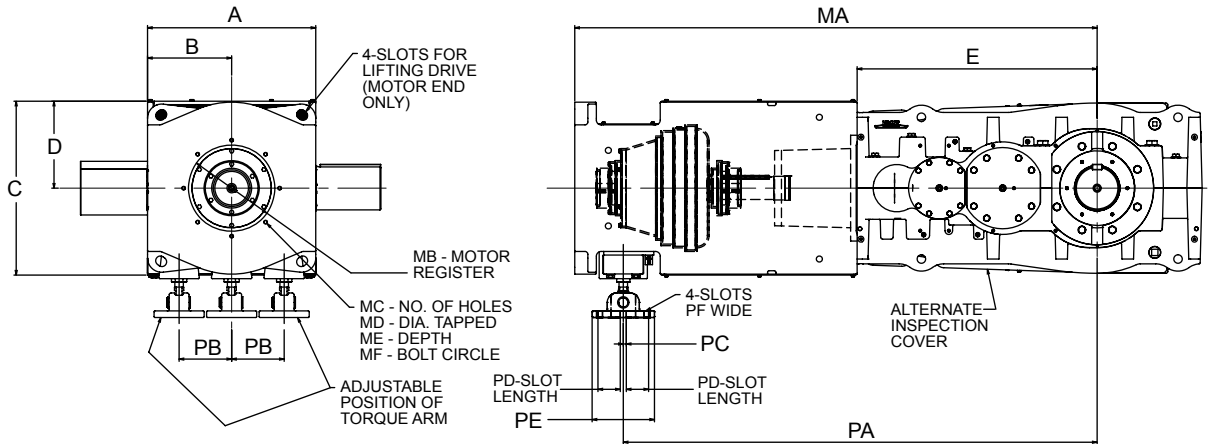
Type VRC/VRJ Triple Reduction Sizes 193-207

Alignment-Free Drive/Dimensions — Millimeters

DRIVE DIMENSIONS - REFER TO PAGES 211, 215, 217, 227 & 231

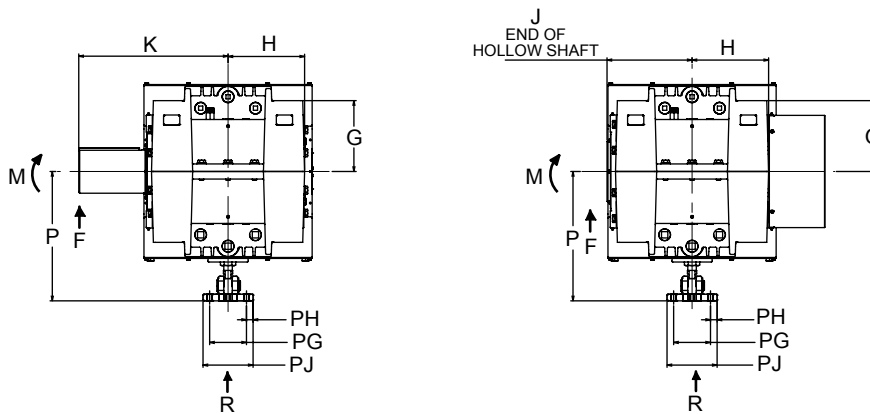
STANDARD ARRANGEMENTS AVAILABLE TO SUIT:
 NEMA TD Flange, NEMA TC C-FACE or IEC B5 Flange Motors as shown below
 Falk True Torque® Fluid (HFDD-20 or 28) Couplings
 Also Falk Lifelign® (G52 Floating Shaft), Steelflex® (T50 Floating Shaft),
 and Thomas® (SN Floating Shaft) couplings

Consult the Factory for non-standard arrangements and non-Falk-branded couplings.



SOLID LOW SPEED SHAFT, VRC

HOLLOW LOW SPEED SHAFT, VRJ



Loads Generated/Torque Arm Forces, Low-Speed Shaft Forces

| DRIVE SIZE | Max Torque Arm Force R (N) | Max Loads at Face of Bushing Nut, VRT † | | Max Loads at End of Shaft, VRC † | | Available Motors to Suit Adapter | | | |
|---------------|----------------------------|---|------------------------|----------------------------------|------------------------|----------------------------------|-------------|-----------------|------------------|
| | | Radial Force F (N) | Bending Moment M (N-m) | Radial Force F (N) | Bending Moment M (N-m) | NEMA | IEC | Siemens | Brook & Crompton |
| 193, 195, 197 | 161,000 | ... | ... | 144,000 | 114,000 | 447T - 449T | 315S - 355L | 5011, 588, 5810 | 585, 586, 587SDZ |
| 203, 207 | 195,000 | 167,000 | 75,300 | 169,000 | 134,000 | 447T - 449T | 315S - 355L | 5011, 588, 5810 | 585, 586, 587SDZ |

★ The loads generated are based on a combination of the most unfavorable conditions of rotation, speed, selection horsepower, motor weight, and a 200% start factor.

† Values for R, F, and M are the maximum loads at the position shown during start-up. The loads may NOT be acting in the direction of the arrows. Use the worst case loading condition when designing the driven equipment. Bending Moment is for torque arm located farthest from driven equipment.

Type VRC/VRJ Triple Reduction Sizes 193-207

Alignment-Free Drive/Dimensions — Millimeters

Fluid Coupling

| COUPLING SIZE* | DRIVE SIZE★ | A | B | C | D | P | | PB | PC | PD | PE | PF | PG | PH | PJ |
|----------------|---------------------------|-----|-----|-----|-----|-----|-----|-----|----|-----|-----|----|-----|----|-----|
| | | | | | | Min | Max | | | | | | | | |
| 1584HFDD | 193, 195, 197 203, 207 | 890 | 445 | 920 | 460 | 673 | 696 | 278 | 16 | 118 | 330 | 28 | 195 | 35 | 265 |
| 1660HFDD | 193, 195, 197 203, 207 | 890 | 445 | 920 | 460 | 673 | 696 | 278 | 16 | 118 | 330 | 28 | 195 | 35 | 265 |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, shaft-mounted operation unless specifically stated otherwise. Consult Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

* Fluid coupling size selected based on motor power. See Falk selection guide, True Torque fluid couplings, 521-110 for information

| DRIVE SIZE★ | E | G | H | J | K | Motor Adapter | | | | | | PA - HS Coupling Size and Type | | | |
|---------------|------|-----|-------|-----|-----|---------------|----|----|----|----|----|--------------------------------|---------|----------|---------|
| | | | | | | MA | MB | MC | MD | ME | MF | 1584HFDD | | 1660HFDD | |
| | | | | | | | | | | | | Type 20 | Type 28 | Type 20 | Type 28 |
| 193, 195, 197 | 1230 | 375 | 405,1 | ... | 790 | ‡ | † | 8 | † | † | † | 2465 | 2479 | 2545 | 2545 |
| 203, 207 | 1270 | 375 | 405,1 | 450 | 790 | ‡ | † | 8 | † | † | † | 2505 | 2519 | 2585 | 2585 |

★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, shaft-mounted operation unless specifically stated otherwise. Consult Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Dimensions vary with motor selections. Certified prints will be provided after receipt or order.

‡ "MA" dimension typically varies from 200% to 250% of "E" dimension.

VFD Floating Shaft Coupling

| DRIVE SIZE★ | Motor Frame | A | B | C | D | P | | PA | PB | PC | PD | PE | PF | PG | PH | PJ | E | G | H | J | K | Motor Adapter | | | | | |
|---------------|-------------|-----|-----|-----|-----|-----|-----|------|-----|----|-----|-----|----|-----|----|-----|------|-----|-------|-----|-----|---------------|----|----|----|----|----|
| | | | | | | Min | Max | | | | | | | | | | | | | | | MA | MB | MC | MD | ME | MF |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 193, 195, 197 | ALL | 890 | 445 | 920 | 460 | 673 | 696 | 2465 | 278 | 16 | 118 | 330 | 28 | 195 | 35 | 265 | 1230 | 375 | 405,1 | ... | 790 | ‡ | † | 8 | † | † | † |
| 203, 207 | ALL | 890 | 445 | 920 | 460 | 673 | 696 | 2505 | 278 | 16 | 118 | 330 | 28 | 195 | 35 | 265 | 1270 | 375 | 405,1 | 450 | 790 | ‡ | † | 8 | † | † | † |

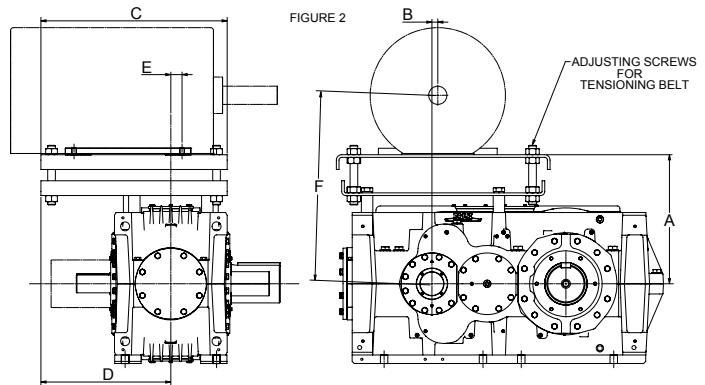
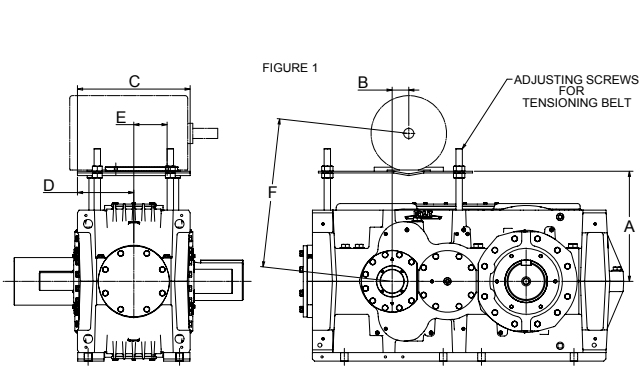
★ Drawings are representative of this series of drives and do not agree in exact detail for all sizes. Gear drives are for horizontal, shaft-mounted operation unless specifically stated otherwise. Consult Factory for other mountings. Dimensions are for reference only and are subject to change without notice unless certified.

† Dimensions vary with motor selections. Certified prints will be provided after receipt or order.

‡ "MA" dimension typically varies from 200% to 250% of "E" dimension.

Type VP Double & Triple Reduction Sizes 107-167

Motor Mounts — Top Mount/Dimensions — Millimeters



| DRIVE SIZE★ | 140T-250T | | | | | 280T-400T | | | | |
|-------------|-----------|-----|----|-----|-----|-----------|-----|----|-----|-----|
| | A | | B | C | D | A | | B | C | D |
| | Min | Max | | | | Min | Max | | | |
| 107 | 246 | 390 | 70 | 441 | 286 | 317 | 438 | 8 | 650 | 495 |
| 117 | 270 | 414 | 50 | 441 | 261 | 346 | 464 | 22 | 650 | 470 |

| DRIVE SIZE★ | 112M | | | | | 132S & M | | | | | 160M - 200L | | | | | 225S - 315L | | | | |
|---------------|------|-----|-----|-----|-----|----------|-----|-----|-----|-----|-------------|-----|-----|-----|-----|-------------|-----|-----|-----|-----|
| | A | | B | C | D | A | | B | C | D | A | | B | C | D | A | | B | C | D |
| | Min | Max | | | | Min | Max | | | | Min | Max | | | | Min | Max | | | |
| 127 | 299 | 422 | 84 | 539 | 344 | 299 | 422 | 84 | 539 | 344 | 299 | 422 | 84 | 539 | 344 | 372 | 492 | 70 | 879 | 683 |
| 133, 137 | --- | --- | --- | --- | --- | 304 | 427 | 120 | 544 | 331 | 304 | 427 | 120 | 544 | 331 | 378 | 501 | 120 | 879 | 666 |
| 143, 145, 147 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 329 | 452 | 105 | 544 | 328 | 403 | 526 | 105 | 879 | 662 |
| 153, 155, 157 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 431 | 558 | 125 | 544 | 299 | 428 | 551 | 125 | 879 | 633 |
| 163, 165, 167 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 387 | 490 | 28 | 530 | 265 | 532 | 621 | 28 | 860 | 603 |

| DRIVE SIZE★ | 90L | | | | 100L | | | | 112M | | | | 132S & M | | | | 160M & L | | | | 180M & L | | | | 200L | | | | |
|-------------|-------|-----|-----|----------|------|-----|-----|----------|------|-----|-----|----------|----------|-----|-----|----------|----------|-----|-----|----------|----------|-----|-----|----------|------|-----|-----|----------|-----|
| | E ‡ | F † | | Fig. No. | E ‡ | F † | | Fig. No. | E ‡ | F † | | Fig. No. | E ‡ | F † | | Fig. No. | E ‡ | F † | | Fig. No. | E ‡ | F † | | Fig. No. | E ‡ | F † | | Fig. No. | |
| | | Min | Max | | | Min | Max | | | Min | Max | | | Min | Max | | | Min | Max | | | Min | Max | | | Min | Max | | Min | Max |
| 107 | 109.0 | 341 | 483 | 1 | 102 | 350 | 493 | 1 | 95 | 362 | 505 | 1 | 76 | 382 | 525 | 1 | 57 | 410 | 553 | 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 117 | 134.0 | 363 | 506 | 1 | 127 | 373 | 516 | 1 | 120 | 385 | 528 | 1 | 101 | 405 | 548 | 1 | 82 | 433 | 576 | 1 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 127 | --- | --- | --- | --- | --- | --- | --- | --- | 135 | 419 | 541 | 1 | 116 | 439 | 560 | 1 | 97 | 466 | 588 | 1 | 84 | 486 | 608 | 1 | 72 | 506 | 628 | 1 | |
| 133-137 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 134 | 453 | 573 | 1 | 115 | 479 | 599 | 1 | 102 | 499 | 619 | 1 | 90 | 518 | 639 | 1 | |
| 143-147 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 118 | 500 | 621 | 1 | 105 | 519 | 641 | 1 | 93 | 539 | 660 | 1 | | |
| 153-157 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 147 | 604 | 729 | 1 | 134 | 624 | 749 | 1 | 122 | 643 | 768 | 1 | | |
| 163-167 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 170 | 548 | 651 | 1 | 157 | 568 | 671 | 1 | 145 | 588 | 691 | 1 | | |

| DRIVE SIZE★ | 180M & L | | | | 200L | | | | 225S & M | | | | 250M | | | | 280S & M | | | | 315S, M & L | | | | | | |
|-------------|----------|-----|-----|----------|------|-----|-----|----------|----------|-----|-----|----------|------|-----|-----|----------|----------|-----|-----|----------|-------------|-----|-----|----------|-----|-----|-----|
| | E ‡ | F † | | Fig. No. | E ‡ | F † | | Fig. No. | E ‡ | F † | | Fig. No. | E ‡ | F † | | Fig. No. | E ‡ | F † | | Fig. No. | E ‡ | F † | | Fig. No. | | | |
| | | Min | Max | | | Min | Max | | | Min | Max | | | Min | Max | | | Min | Max | | | Min | Max | | Min | Max | |
| 107 | 44 | 497 | 618 | 2 | 32 | 517 | 638 | 2 | 16 | 542 | 663 | 2 | 3 | 567 | 688 | 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 117 | 69 | 527 | 644 | 2 | 57 | 547 | 664 | 2 | 41 | 572 | 689 | 2 | 22 | 600 | 714 | 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 127 | --- | --- | --- | --- | --- | --- | --- | --- | 57 | 601 | 720 | 2 | 38 | 626 | 745 | 2 | 16 | 656 | 775 | 2 | -11 | 691 | 810 | 2 | --- | --- | --- |
| 133-137 | --- | --- | --- | --- | --- | --- | --- | --- | 74 | 615 | 736 | 2 | 55 | 639 | 761 | 2 | 33 | 669 | 790 | 2 | 7 | 703 | 825 | 2 | --- | --- | --- |
| 143-147 | --- | --- | --- | --- | --- | --- | --- | --- | 77 | 637 | 758 | 2 | 58 | 661 | 783 | 2 | 36 | 691 | 813 | 2 | 10 | 726 | 848 | 2 | --- | --- | --- |
| 153-157 | --- | --- | --- | --- | --- | --- | --- | --- | 106 | 665 | 786 | 2 | 87 | 689 | 811 | 2 | 65 | 719 | 840 | 2 | 39 | 753 | 875 | 2 | --- | --- | --- |
| 163-167 | --- | --- | --- | --- | --- | --- | --- | --- | 121 | 758 | 846 | 2 | 102 | 783 | 871 | 2 | 80 | 812 | 901 | 2 | 54 | 847 | 936 | 2 | --- | --- | --- |

★ Dimensions are for reference only and are subject to change without notice unless certified. Due to interferences, Falk cannot offer a drive with both shaft fan and backstop.

Shaft Fan Only - Mount shaft fan on bushing side.

Backstop Only - Mount backstop on bushing side.

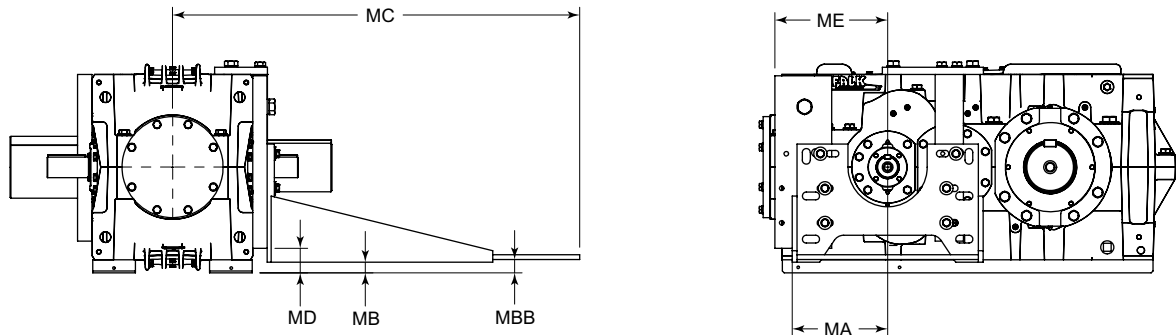
Backstop and Fan - Mount backstop on bushing side, use electric fan.

† Minimum center distance does not include belt installation allowance. When determining belt length for minimum shaft centers, follow manufacturer's installation allowance recommendations and also provide for future belt tensioning.

‡ "E" is the distance from the centerline of the housing to the motor front mounting hole.

Type VP Double & Triple Reduction Sizes 107-137

Motor Brackets/Dimensions — Millimeters



VP Motor Bracket — Millimeters

| Drive Size* | Motor Frame | | High Speed Coupling | | MA | MB ♦ | MC | MD | ME | MBB ♦ |
|-------------|-------------|------------|---------------------|-----------|-------|-------|------|----|-------|-------|
| | | | Wrapflex | Steelflex | | | | | | |
| 107 | IEC | 132 | 10R10 | 1040T10 | 227,7 | 19,9 | 962 | 21 | 221,9 | 13,6 |
| | | 160 | 10R10 | 1040T10 | 227,7 | 19,9 | 917 | 21 | 221,9 | 38,7 |
| | | 180 | 20R10 | 1050T10 | 227,7 | 19,9 | 937 | 21 | 221,9 | 21,7 |
| | | 200 | 20R10 | 1060T10 | 251,1 | 19,9 | 1008 | 21 | 221,9 | -3,7 |
| | NEMA | 213T, 215T | 10R10 | 1040T10 | 227,7 | 19,9 | 716 | 21 | 221,9 | 13,4 |
| | | 254T, 256T | 10R10 | 1040T10 | 227,7 | 19,9 | 840 | 21 | 221,9 | 42,3 |
| 117 | IEC | 132 | 20R10 | 1050T10 | 227,7 | 43,7 | 988 | 20 | 240,3 | 37,4 |
| | | 160 | 20R10 | 1050T10 | 227,7 | 43,7 | 943 | 20 | 240,3 | 62,5 |
| | | 180 | 20R10 | 1050T10 | 227,7 | 43,7 | 963 | 20 | 240,3 | 45,5 |
| | | 200 | 20R10 | 1060T10 | 251,1 | 43,7 | 1034 | 20 | 240,3 | 20,1 |
| | | 225 | 30R10 | 1070T10 | 252,5 | -15,5 | 1048 | 20 | 240,3 | -8,3 |
| | | 225 | 30R10 | 1070T10 | 252,5 | -15,5 | 1048 | 20 | 240,3 | -8,3 |
| | NEMA | 213T, 215T | 20R10 | 1050T10 | 227,7 | 43,7 | 742 | 20 | 240,3 | 37,3 |
| | | 254T, 256T | 20R10 | 1050T10 | 227,7 | 43,7 | 866 | 20 | 240,3 | 66,1 |
| | | 284T, 286T | 20R10 | 1050T10 | 227,7 | 43,7 | 963 | 20 | 240,3 | 45,5 |
| | | 324T, 326T | 20R10 | 1060T10 | 251,1 | 43,7 | 1034 | 20 | 240,3 | 20,1 |
| | | 364T, 365T | 30R10 | 1070T10 | 252,5 | -15,5 | 1048 | 20 | 240,3 | -8,3 |
| | | 364T, 365T | 30R10 | 1070T10 | 252,5 | -15,5 | 1048 | 20 | 240,3 | -8,3 |
| 127 | IEC | 132 | 20R10 | 1060T10 | 227,7 | 72,8 | 1011 | 29 | 325,6 | 120,5 |
| | | 160 | 20R10 | 1060T10 | 227,7 | 72,8 | 966 | 29 | 325,6 | 91,7 |
| | | 180 | 20R10 | 1060T10 | 227,7 | 72,8 | 986 | 29 | 325,6 | 74,5 |
| | | 200 | 20R10 | 1060T10 | 251,1 | 72,8 | 1057 | 29 | 325,6 | 49,1 |
| | | 225 | 30R10 | 1070T10 | 252,5 | 13,7 | 1071 | 29 | 325,6 | 20,5 |
| | | 225 | 30R10 | 1070T10 | 252,5 | 13,7 | 1071 | 29 | 325,6 | 20,5 |
| | NEMA | 213T, 215T | 20R10 | 1060T10 | 227,7 | 72,9 | 765 | 29 | 325,6 | 120,4 |
| | | 254T, 256T | 20R10 | 1060T10 | 227,7 | 72,9 | 889 | 29 | 325,6 | 95,0 |
| | | 284T, 286T | 20R10 | 1060T10 | 227,7 | 72,9 | 986 | 29 | 325,6 | 74,4 |
| | | 324T, 326T | 20R10 | 1060T10 | 251,1 | 72,9 | 1057 | 29 | 325,6 | 49,0 |
| | | 364T, 365T | 30R10 | 1070T10 | 252,5 | 13,5 | 1071 | 29 | 325,6 | 20,6 |
| | | 364T, 365T | 30R10 | 1070T10 | 252,5 | 13,5 | 1071 | 29 | 325,6 | 20,6 |
| 133, 137 | IEC | 160 | 20R10 | 1060T10 | 227,7 | 87,8 | 972 | 65 | 296,8 | 106,6 |
| | | 180 | 20R10 | 1060T10 | 227,7 | 87,8 | 992 | 65 | 296,8 | 89,5 |
| | | 200 | 20R10 | 1060T10 | 251,1 | 87,8 | 1063 | 65 | 296,8 | 64,1 |
| | | 225 | 30R10 | 1070T10 | 252,5 | 28,6 | 1077 | 65 | 296,8 | 35,5 |
| | | 225 | 30R10 | 1070T10 | 252,5 | 28,6 | 1077 | 65 | 296,8 | 35,5 |
| | | 225 | 30R10 | 1070T10 | 252,5 | 28,6 | 1077 | 65 | 296,8 | 35,5 |
| | NEMA | 254T, 256T | 20R10 | 1060T10 | 227,7 | 87,8 | 896 | 65 | 296,8 | 110,0 |
| | | 284T, 286T | 20R10 | 1060T10 | 227,7 | 87,8 | 992 | 65 | 296,8 | 89,4 |
| | | 324T, 326T | 20R10 | 1060T10 | 251,1 | 87,8 | 1063 | 65 | 296,8 | 64,0 |
| | | 364T, 365T | 30R10 | 1070T10 | 252,5 | 28,4 | 1077 | 65 | 296,8 | 35,6 |
| | | 364T, 365T | 30R10 | 1070T10 | 252,5 | 28,4 | 1077 | 65 | 296,8 | 35,6 |
| | | 364T, 365T | 30R10 | 1070T10 | 252,5 | 28,4 | 1077 | 65 | 296,8 | 35,6 |

* Dimensions are for reference only and are subject to change without notice unless certified. Available only for use with base-mounted drives; cannot be used with shaft-mounted drives.

Due to interference, motor brackets cannot be used on the same side of the housing as a backstop or shaft fan.

Shaft fan only - Mount shaft fan opposite bracket side.

Backstop only - Mount backstop opposite bracket side.

Backstop and fan - Mount backstop opposite bracket side, use electric fan.

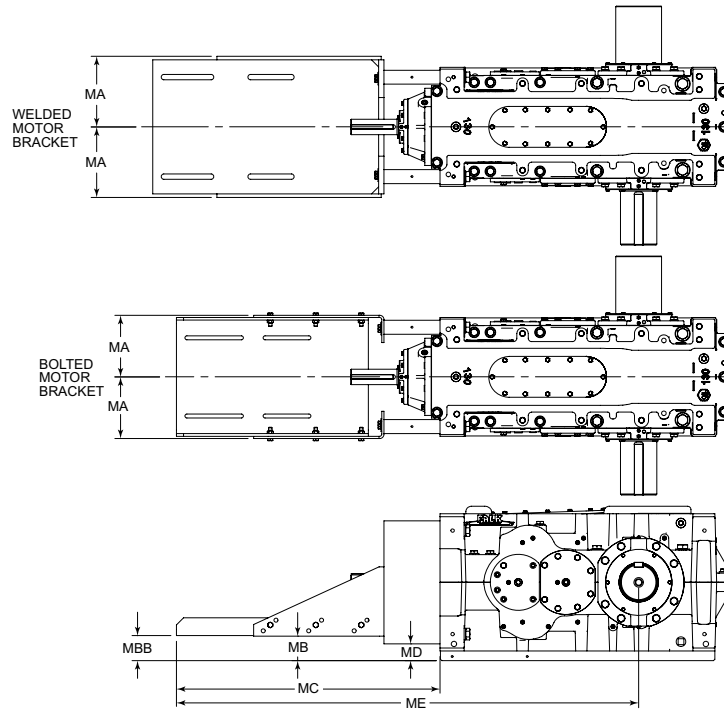
Brackets for IEC motors are furnished blank/undrilled.

Brackets for NEMA motors are furnished slotted for motor mounting.

♦ Negative MB and MBB dimensions indicate bracket extends below drive feet. Customer must provide clearance for bracket and for motor mounting hardware.

Type VR Double & Triple Reduction Sizes 107-137

Motor Brackets/Dimensions — Millimeters



VR Motor Bracket — Millimeters

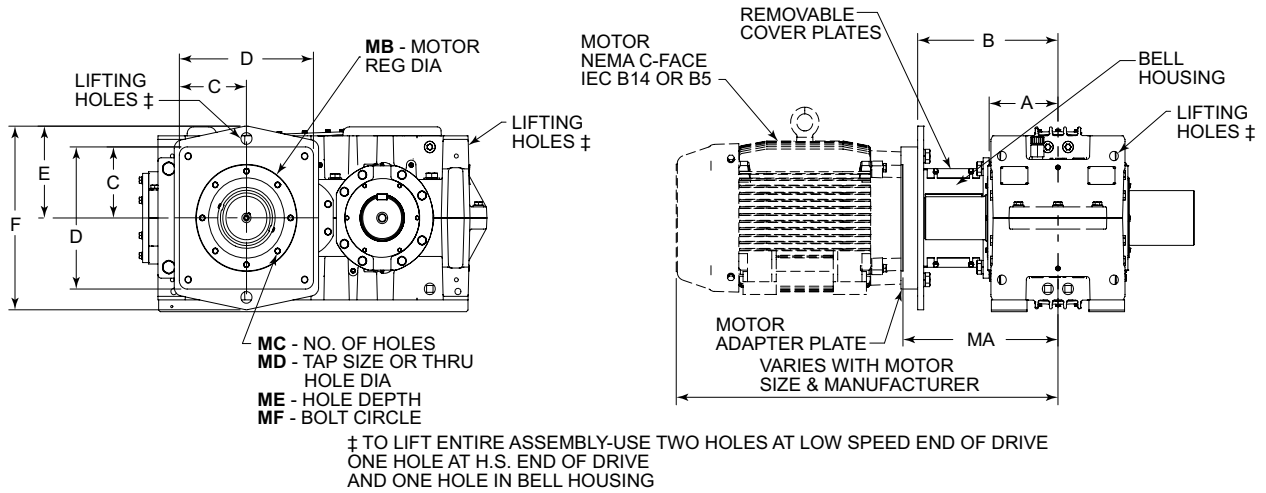
| Drive Size* | Motor Frame | | High Speed Coupling | | MA | MB ♦ | MC | MD | ME | MBB ♦ |
|-------------|-------------|------------|---------------------|-----------|-------|-------|------|--------|--------|-------|
| | | | Wrapflex | Steelflex | | | | | | |
| 107 | IEC | 132 | 10R10 | 1040T10 | 227,7 | 19,9 | 745 | 33 | 1256,9 | 15,0 |
| | | 160 | 10R10 | 1040T10 | 227,7 | 19,9 | 801 | 33 | 1312,8 | 41,1 |
| | | 180 | 20R10 | 1050T10 | 227,7 | 19,9 | 872 | 33 | 1383,9 | 21,6 |
| | | 200 | 20R10 | 1060T10 | 251,1 | 19,9 | 943 | 33 | 1455,1 | -0,3 |
| | | 213T, 215T | 10R10 | 1040T10 | 227,7 | 19,9 | 651 | 33 | 1163,0 | 13,4 |
| | 254T, 256T | 10R10 | 1040T10 | 227,7 | 19,9 | 775 | 33 | 1287,4 | 42,2 | |
| 117 | IEC | 132 | 20R10 | 1050T10 | 227,7 | 43,8 | 765 | 43 | 1340,7 | 39,0 |
| | | 160 | 20R10 | 1050T10 | 227,7 | 43,8 | 821 | 43 | 1396,6 | 65,1 |
| | | 180 | 20R10 | 1050T10 | 227,7 | 43,8 | 892 | 43 | 1467,7 | 45,6 |
| | | 200 | 20R10 | 1060T10 | 251,1 | 43,8 | 963 | 43 | 1538,8 | 23,7 |
| | | 225 | 30R10 | 1070T10 | 252,5 | -15,3 | 977 | 43 | 1552,8 | -4,7 |
| | 213T, 215T | 20R10 | 1050T10 | 227,7 | 43,9 | 671 | 43 | 1246,7 | 37,4 | |
| 127 | IEC | 132 | 20R10 | 1060T10 | 227,7 | 72,8 | 775 | 65 | 1424,7 | 68,0 |
| | | 160 | 20R10 | 1060T10 | 227,7 | 72,8 | 831 | 65 | 1480,6 | 94,1 |
| | | 180 | 20R10 | 1060T10 | 227,7 | 72,8 | 902 | 65 | 1551,7 | 74,6 |
| | | 200 | 20R10 | 1060T10 | 251,1 | 72,8 | 973 | 65 | 1622,8 | 52,7 |
| | | 225 | 30R10 | 1070T10 | 252,5 | 13,7 | 987 | 65 | 1636,8 | 24,3 |
| | 213T, 215T | 20R10 | 1060T10 | 227,7 | 72,9 | 681 | 65 | 1330,7 | 66,4 | |
| 133, 137 | IEC | 160 | 20R10 | 1060T10 | 227,7 | 87,9 | 871 | 60 | 1581,0 | 109,1 |
| | | 180 | 20R10 | 1060T10 | 227,7 | 87,9 | 942 | 60 | 1652,0 | 89,4 |
| | | 200 | 20R10 | 1060T10 | 251,1 | 87,9 | 1013 | 60 | 1723,0 | 67,7 |
| | | 225 | 30R10 | 1070T10 | 252,5 | 28,4 | 1027 | 60 | 1737,0 | 39,3 |
| | | 254T, 256T | 20R10 | 1060T10 | 227,7 | 87,9 | 845 | 60 | 1557,8 | 110,0 |
| | 284T, 286T | 20R10 | 1060T10 | 227,7 | 87,9 | 942 | 60 | 1654,3 | 89,4 | |
| 133, 137 | NEMA | 324T, 326T | 20R10 | 1060T10 | 251,1 | 87,9 | 1013 | 60 | 1725,4 | 64,0 |
| | | 364T, 365T | 30R10 | 1070T10 | 252,5 | 28,4 | 1026 | 60 | 1738,6 | 35,6 |

* Dimensions are for reference only and are subject to change without notice unless certified. Available only for use with base-mounted drives; cannot be used with shaft-mounted drives.
 Due to interference, motor brackets cannot be used on the same side of the housing as a backstop or shaft fan.
 Shaft fan only - Mount shaft fan opposite bracket side.
 Backstop only - Mount backstop opposite bracket side.
 Backstop and fan - Mount backstop opposite bracket side, use electric fan.
 Brackets for IEC motors are furnished blank/undrilled.
 Brackets for NEMA motors are furnished slotted for motor mounting.

♦ Negative MB and MBB dimensions indicate bracket extends below drive feet. Customer must provide clearance for bracket and for motor mounting hardware.

Type VP Double & Triple Reduction Sizes 107-117

C-Face Adapters/Dimensions — Millimeters



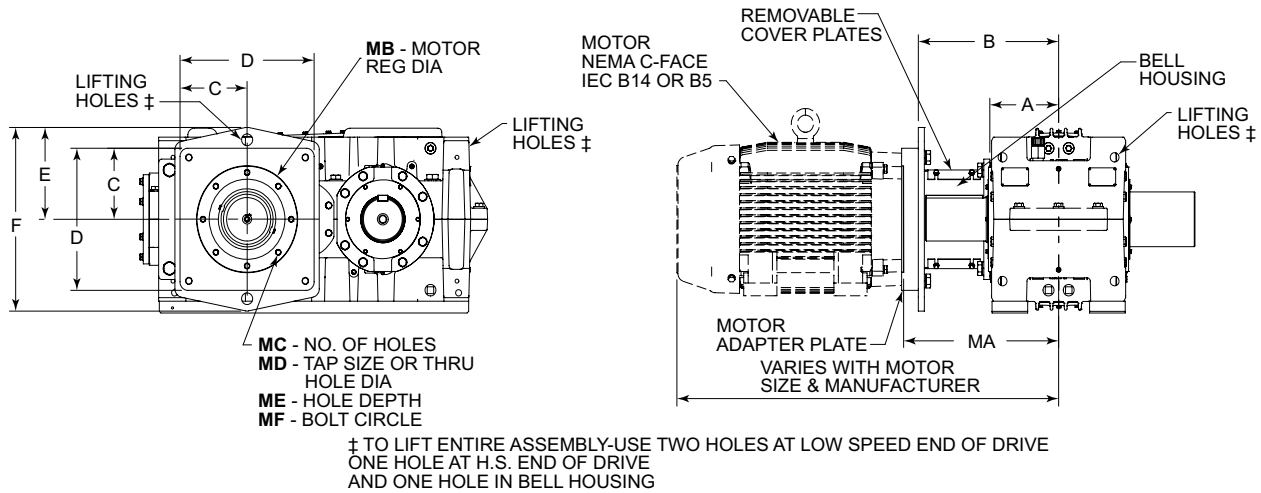
| DRIVE SIZE ★ | Motor Type | Motor Frame | Motor Coupling | | DIMENSIONS - MILLIMETERS † | | | | | | | | | | | |
|-----------------|-------------------|-------------|---------------------------------|-------|----------------------------|-------|-------|-----|-------|-------|----------|----------|--------|------------|---------------------------|-----|
| | | | Drive Reduction & Nominal Ratio | | A | B | C | D | E | F | MA | MB (mm) | MC | MD | ME | MF |
| | | | VP2 | VP3 | | | | | | | | | | | | |
| | | | ALL | ALL | | | | | | | | | | | | |
| 107 | IEC B5 Flange | 112 | ... | 10R35 | 164 | 364,5 | 167,5 | 335 | 207,0 | 414,0 | 388 | 180 H7 | 4 | M12 x 1,75 | THRU TAP HOLE | 215 |
| | | 132 | ... | 10R35 | 164 | 364,5 | 167,5 | 335 | 207,0 | 414,0 | 388 | 230 H7 | 4 | M12 x 1,75 | | 265 |
| | | 160 | 20R10 | 20R35 | 164 | 364,5 | 167,5 | 335 | 207,0 | 414,0 | 422 | 250 H7 | 4 | M16 x 2,0 | | 300 |
| | | 180 | 20R10 | 20R35 | 164 | 364,5 | 167,5 | 335 | 207,0 | 414,0 | 422 | 250 H7 | 4 | M16 x 2,0 | | 300 |
| | | 200 | 30R10 | ... | 164 | 364,5 | 230 | 460 | 207,0 | 414,0 | 426 | 300 H7 | 4 | M16 x 2,0 | | 350 |
| | | 225 | 40R10 | ... | 164 | 364,5 | 230 | 460 | 207,0 | 414,0 | 433 | 350 H7 | 8 | M16 x 2,0 | | 400 |
| | IEC B14 Flange | 112 | ... | 10R35 | 164 | 364,5 | 167,5 | 335 | 207 | 414 | 384 | 110 H7 | 4 | 0,3937 | THRU CLEARANCE HOLE | 130 |
| | | 132 | ... | 10R35 | 164 | 364,5 | 167,5 | 335 | 207 | 414 | 384 | 130 H7 | 4 | 0,4724 | | 165 |
| | | 160 | 20R10 | 20R35 | 164 | 364,5 | 167,5 | 335 | 207 | 414 | 422 | 180 H7 | 4 | 0,5709 | | 215 |
| | NEMA | 182/184TC | ... | 10R35 | 164 | 364,5 | 167,5 | 335 | 207 | 414 | 383 | 215,9 H7 | 4 | 0,5625 | THRU CLEARANCE HOLE | 184 |
| | | 213/215TC | ... | 10R35 | 164 | 364,5 | 167,5 | 335 | 207 | 414 | 383 | 215,9 H7 | 4 | 0,5625 | | 184 |
| | | 254/256TC | 20R10 | 20R35 | 164 | 364,5 | 167,5 | 335 | 207 | 414 | 383 | 215,9 H7 | 4 | 0,5625 | | 184 |
| 284/286TC | | 20R10 | 20R35 | 164 | 364,5 | 167,5 | 335 | 207 | 414 | 423 | 266,7 H7 | 4 | 0,5625 | 229 | | |
| 324/326TC | | 30R10 | ... | 164 | 364,5 | 167,5 | 335 | 207 | 414 | 423 | 317,5 H7 | 4 | 0,6875 | 279 | | |
| 364/365TC | | 40R10 | ... | 164 | 364,5 | 167,5 | 335 | 207 | 414 | 423 | 317,5 H7 | 8 | 0,6875 | 279 | | |
| 117 | IEC B5 Flange | 132 | ... | 10R35 | 183 | 426,5 | 185 | 370 | 231 | 462 | 445 | 230 H7 | 4 | M12 x 1,75 | THRU TAP HOLE | 265 |
| | | 160 | ... | 20R35 | 183 | 426,5 | 185 | 370 | 231 | 462 | 466 | 250 H7 | 4 | M16 x 2,0 | | 300 |
| | | 180 | 20R35 | 20R35 | 183 | 426,5 | 185 | 370 | 231 | 462 | 466 | 250 H7 | 4 | M16 x 2,0 | | 300 |
| | | 200 | 30R35 | 30R35 | 183 | 426,5 | 185 | 370 | 231 | 462 | 470 | 300 H7 | 4 | M16 x 2,0 | | 350 |
| | | 225 | 40R10 | ... | 183 | 426,5 | 205 | 410 | 231 | 462 | 477 | 350 H7 | 8 | M16 x 2,0 | | 400 |
| | | 250 | 40R10 | ... | 183 | 426,5 | 272 | 544 | 231 | 462 | 477 | 450 H7 | 8 | M16 x 2,0 | | 500 |
| | IEC B14 Flange | 132 | ... | 10R35 | 183 | 426,5 | 185 | 370 | 231 | 462 | 445 | 130 H7 | 4 | 0,4724 | THRU CLEARANCE HOLE | 165 |
| | | 160 | ... | 20R35 | 183 | 426,5 | 185 | 370 | 231 | 462 | 466 | 180 H7 | 4 | 0,5709 | | 215 |
| | NEMA | 213/215TC | ... | 10R35 | 183 | 426,5 | 185 | 370 | 231 | 462 | 445 | 215,9 H7 | 4 | 0,5625 | THRU CLEARANCE HOLE | 184 |
| | | 254/256TC | ... | 20R35 | 183 | 426,5 | 185 | 370 | 231 | 462 | 445 | 215,9 H7 | 4 | 0,5625 | | 184 |
| | | 284/286TC | 20R10 | 20R35 | 183 | 426,5 | 185 | 370 | 231 | 462 | 445 | 266,7 H7 | 4 | 0,5625 | | 229 |
| | | 324/326TC | 30R35 | 30R35 | 183 | 426,5 | 185 | 370 | 231 | 462 | 483 | 317,5 H7 | 4 | 0,6875 | | 279 |
| 364/365TC | | 40R10 | ... | 183 | 426,5 | 185 | 370 | 231 | 462 | 483 | 317,5 H7 | 8 | 0,6875 | 279 | | |
| 404/405TC | | 40R10 | ... | 183 | 426,5 | 185 | 370 | 231 | 462 | 483 | 317,5 H7 | 8 | 0,6875 | 279 | | |

★ Dimensions are for reference only and are subject to change without notice unless certified.

† Due to interference, motor flanges cannot be used on the same side of the housing as a backstop or shaft fan.
 Shaft fan only - Mount shaft fan opposite bracket side.
 Backstop only - Mount backstop opposite bracket side.
 Backstop and fan - Mount backstop opposite bracket side, use electric fan.

Type VP Double & Triple Reduction Sizes 127-137

C-Face Adapters/Dimensions — Millimeters



| DRIVE SIZE ★ | Motor Type | Motor Frame | Motor Coupling | | DIMENSIONS - MILLIMETERS † | | | | | | | | | | | | |
|-----------------|------------|-------------|---------------------------------|-------|----------------------------|-------|-------|-------|-----|-----|----------|----------|--------|---------------------|---------------------|---------------|-----|
| | | | Drive Reduction & Nominal Ratio | | A | B | C | D | E | F | MA | MB (mm) | MC | MD | ME | MF | |
| | | | VP2 | VP3 | | | | | | | | | | | | | |
| | | | ALL | ALL | | | | | | | | | | | | | |
| 127 | IEC B5 | 132 | ... | 10R35 | 206 | 421 | 200 | 400 | 260 | 520 | 440 | 230 H7 | 4 | M12 x 1,75 | THRU TAP HOLE | 265 | |
| | | 160 | ... | 20R35 | 206 | 421 | 200 | 400 | 260 | 520 | 461 | 250 H7 | 4 | M16 x 2,0 | | 300 | |
| | | 180 | ... | 20R35 | 206 | 421 | 200 | 400 | 260 | 520 | 461 | 250 H7 | 4 | M16 x 2,0 | | 300 | |
| | | 200 | 30R35 | 30R35 | 206 | 421 | 200 | 400 | 260 | 520 | 465 | 300 H7 | 4 | M16 x 2,0 | | 350 | |
| | | 225 | 40R10 | 40R10 | 206 | 421 | 205 | 410 | 260 | 520 | 471 | 350 H7 | 8 | M16 x 2,0 | | 400 | |
| | | 250 | 40R10 | ... | 206 | 421 | 272 | 544 | 260 | 520 | 471 | 450 H7 | 8 | M16 x 2,0 | | 500 | |
| | IEC B14 | 132 | ... | 10R35 | 206 | 421 | 200 | 400 | 260 | 520 | 440 | 130 H7 | 4 | 12,000 | THRU CLEARANCE HOLE | 165 | |
| | | 160 | ... | 20R35 | 206 | 421 | 200 | 400 | 260 | 520 | 461 | 180 H7 | 4 | 14,500 | | 215 | |
| | | 213/215TC | ... | 10R35 | 206 | 421 | 200 | 400 | 260 | 520 | 440 | 215,9 H7 | 4 | 14,288 | | 184 | |
| | | 254/256TC | ... | 20R10 | 206 | 421 | 200 | 400 | 260 | 520 | 440 | 215,9 H7 | 4 | 14,288 | | 184 | |
| | | 284/286TC | ... | 20R10 | 206 | 421 | 200 | 400 | 260 | 520 | 440 | 266,7 H7 | 4 | 14,288 | | 229 | |
| | | 324/326TC | 30R35 | 30R10 | 206 | 421 | 200 | 400 | 260 | 520 | 477 | 317,5 H7 | 4 | 17,463 | | 279 | |
| NEMA | 364/365TC | 40R10 | 40R10 | 206 | 421 | 200 | 400 | 260 | 520 | 501 | 317,5 H7 | 8 | 17,463 | 279 | | | |
| | 404/405TC | 40R10 | ... | 206 | 421 | 200 | 400 | 260 | 520 | 501 | 317,5 H7 | 8 | 17,463 | 279 | | | |
| | 133, 137 | IEC B5 | 160 | ... | 20R35 | 212,5 | 444,5 | 212,5 | 425 | 275 | 550 | 474 | 250 H7 | 4 | M16 x 2,0 | THRU TAP HOLE | 300 |
| | | | 180 | ... | 20R35 | 212,5 | 444,5 | 212,5 | 425 | 275 | 550 | 474 | 250 H7 | 4 | M16 x 2,0 | | 300 |
| | | | 200 | ... | 30R35 | 212,5 | 444,5 | 212,5 | 425 | 275 | 550 | 474 | 300 H7 | 4 | M16 x 2,0 | | 350 |
| | | | 225 | 40R10 | 40R10 | 212,5 | 444,5 | 212,5 | 425 | 275 | 550 | 508 | 350 H7 | 8 | M16 x 2,0 | | 400 |
| 250 | | | 40R10 | 40R10 | 212,5 | 444,5 | 289 | 578 | 275 | 550 | 495 | 450 H7 | 8 | M16 x 2,0 | 500 | | |
| 160 | | | ... | 20R35 | 212,5 | 444,5 | 212,5 | 425 | 275 | 550 | 474 | 180 H7 | 4 | 14,500 | 215 | | |
| NEMA | 254/256TC | ... | 20R35 | 212,5 | 444,5 | 212,5 | 425 | 275 | 550 | 463 | 215,9 H7 | 4 | 14,288 | THRU CLEARANCE HOLE | 184 | | |
| | 284/286TC | ... | 20R35 | 212,5 | 444,5 | 212,5 | 425 | 275 | 550 | 475 | 266,7 H7 | 4 | 14,288 | | 229 | | |
| | 324/326TC | ... | 30R35 | 212,5 | 444,5 | 212,5 | 425 | 275 | 550 | 491 | 317,5 H7 | 4 | 17,463 | | 279 | | |
| | 364/365TC | 40R10 | 40R10 | 212,5 | 444,5 | 212,5 | 425 | 275 | 550 | 491 | 317,5 H7 | 8 | 17,463 | | 279 | | |
| | 405TC | 40R10 | 40R10 | 212,5 | 444,5 | 212,5 | 425 | 275 | 550 | 515 | 317,5 H7 | 8 | 17,463 | | 279 | | |

★ Dimensions are for reference only and are subject to change without notice unless certified.

† Due to interference, motor flanges cannot be used on the same side of the housing as a backstop or shaft fan.

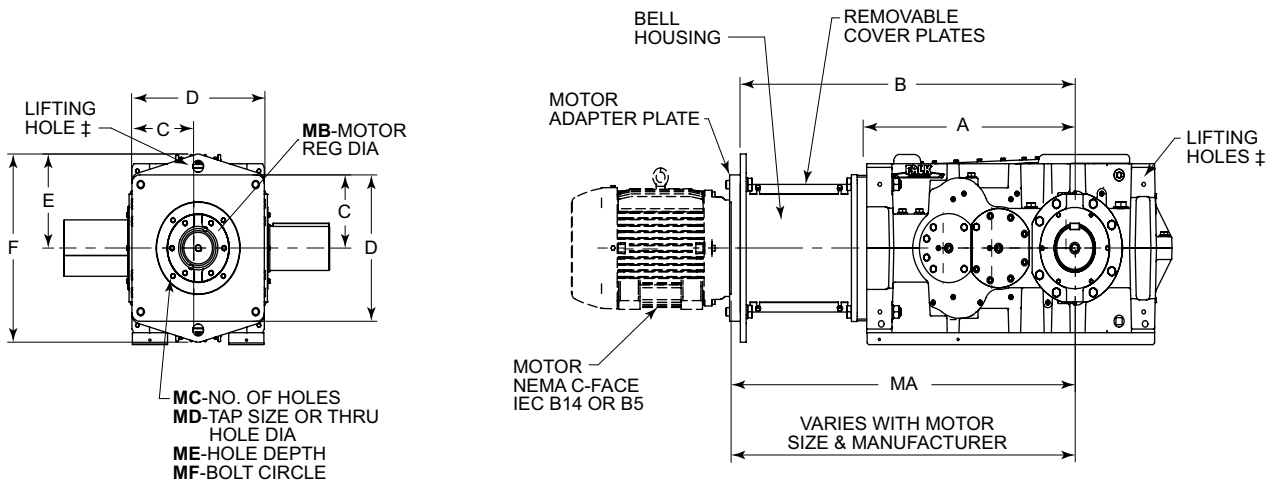
Shaft fan only - Mount shaft fan opposite bracket side.

Backstop only - Mount backstop opposite bracket side.

Backstop and fan - Mount backstop opposite bracket side, use electric fan.

Type VR Double & Triple Reduction Sizes 107-117

C-Face Adapters/Dimensions — Millimeters



‡ TO LIFT ENTIRE ASSEMBLY-USE TWO HOLES AT LOW SPEED END OF DRIVE AND ONE HOLE IN BELL HOUSING

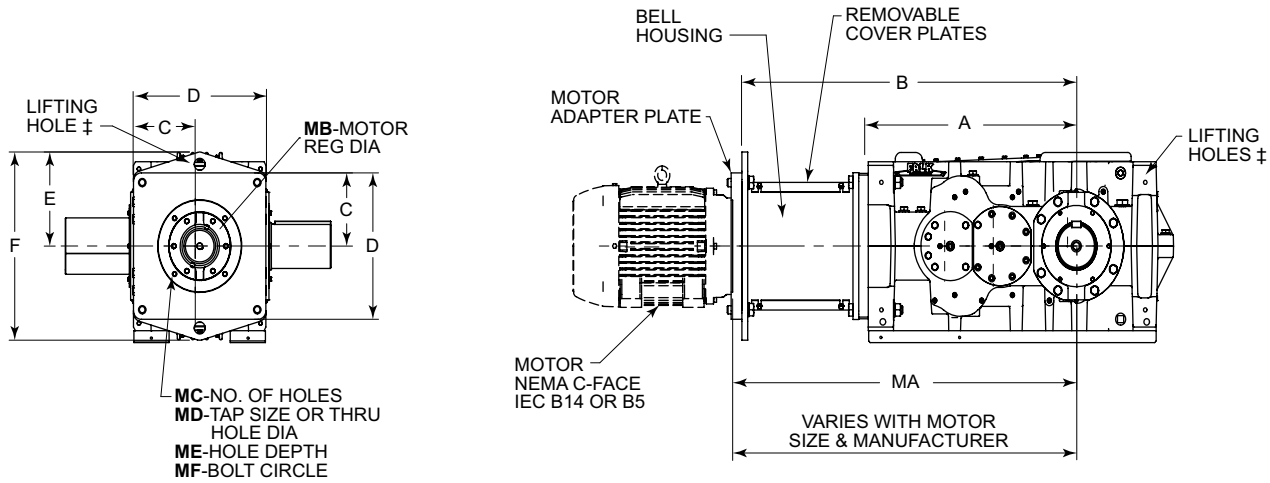
| DRIVE SIZE ★ | Motor Type | Motor Frame | Motor Coupling | | DIMENSIONS - MILLIMETERS † | | | | | | | | | | | | |
|-----------------|----------------|-------------|---------------------------------|-------|----------------------------|-------|-------|-----|-----|----------|--------|----------|-----------|------------|---------------------|--------|-----|
| | | | Drive Reduction & Nominal Ratio | | A | B | C | D | E | F | MA | MB (mm) | MC | MD | ME | MF | |
| | | | VR2 | VR3 | | | | | | | | | | | | | |
| 107 | IEC B5 | 132 | 10R10 | 10R10 | 512 | 849,7 | 174 | 348 | 207 | 414 | 873 | 230 H7 | 4 | M12 x 1,75 | THRU TAP HOLE | 265 | |
| | | 160 | 20R10 | 20R10 | 512 | 849,7 | 174 | 348 | 207 | 414 | 907 | 250 H7 | 4 | M16 x 2,0 | | 300 | |
| | | 180 | 20R10 | 20R10 | 512 | 849,7 | 174 | 348 | 207 | 414 | 907 | 250 H7 | 4 | M16 x 2,0 | | 300 | |
| | | 200 | 30R10 | 30R10 | 512 | 849,7 | 174 | 348 | 207 | 414 | 911,1 | 300 H7 | 4 | M16 x 2,0 | | 350 | |
| | | 225 | 30R10 | 30R10 | 512 | 849,7 | 174 | 348 | 207 | 414 | 917,4 | 350 H7 | 8 | M16 x 2,0 | | 400 | |
| | IEC B14 Flange | 132 | 10R10 | 10R10 | 512 | 849,7 | 174 | 348 | 207 | 414 | 868,9 | 130 H7 | 4 | 12,000 | THRU CLEARANCE HOLE | 165 | |
| | | 160 | 20R10 | 20R10 | 512 | 849,7 | 174 | 348 | 207 | 414 | 907 | 180 H7 | 4 | 14,500 | | 215 | |
| | | NEMA | 213/215TC | 10R10 | 10R10 | 512 | 849,7 | 174 | 348 | 207 | 414 | 867,9 | 215,9 H7 | 4 | | 14,288 | 184 |
| | | | 254/256TC | 20R10 | 20R10 | 512 | 849,7 | 174 | 348 | 207 | 414 | 867,9 | 215,9 H7 | 4 | | 14,288 | 184 |
| | | | 284/286TC | 20R10 | 20R10 | 512 | 849,7 | 174 | 348 | 207 | 414 | 908 | 266,7 H7 | 4 | | 14,288 | 229 |
| 324/326TC | 30R10 | 30R10 | 512 | 849,7 | 174 | 348 | 207 | 414 | 908 | 317,5 H7 | 4 | 17,463 | 279 | | | | |
| 117 | IEC B5 Flange | 132 | 20R10 | 20R10 | 576 | 942 | 185 | 370 | 231 | 462 | 960,5 | 230 H7 | 4 | M12 x 1,75 | THRU TAP HOLE | 265 | |
| | | 160 | 20R10 | 20R10 | 576 | 942 | 185 | 370 | 231 | 462 | 981,5 | 250 H7 | 4 | M16 x 2,0 | | 300 | |
| | | 180 | 20R10 | 20R10 | 576 | 942 | 185 | 370 | 231 | 462 | 981,5 | 250 H7 | 4 | M16 x 2,0 | | 300 | |
| | | 200 | 30R10 | 30R10 | 576 | 942 | 185 | 370 | 231 | 462 | 985,5 | 300 H7 | 4 | M16 x 2,0 | | 350 | |
| | | 225 | 30R10 | 30R10 | 576 | 942 | 185 | 370 | 231 | 462 | 992 | 350 H7 | 8 | M16 x 2,0 | | 400 | |
| | 250 | 40R10 | 40R10 | 576 | 942 | 185 | 370 | 231 | 462 | 992 | 450 H7 | 8 | M16 x 2,0 | 500 | | | |
| | IEC B14 Flange | 132 | 20R10 | 20R10 | 576 | 942 | 185 | 370 | 231 | 462 | 960,5 | 130 H7 | 4 | 12,000 | THRU CLEARANCE HOLE | 165 | |
| | | 160 | 20R10 | 20R10 | 576 | 942 | 185 | 370 | 231 | 462 | 981,5 | 180 H7 | 4 | 14,500 | | 215 | |
| | | NEMA | 213/215TC | 20R10 | 20R10 | 576 | 942 | 185 | 370 | 231 | 462 | 960,5 | 215,9 H7 | 4 | | 14,288 | 184 |
| | | | 254/256TC | 20R10 | 20R10 | 576 | 942 | 185 | 370 | 231 | 462 | 960,5 | 215,9 H7 | 4 | | 14,288 | 184 |
| 284/286TC | | | 20R10 | 20R10 | 576 | 942 | 185 | 370 | 231 | 462 | 960,5 | 266,7 H7 | 4 | 14,288 | | 229 | |
| 324/326TC | 30R10 | 30R10 | 576 | 942 | 185 | 370 | 231 | 462 | 998 | 317,5 H7 | 4 | 17,463 | 279 | | | | |
| 364/365TC | 40R10 | 40R10 | 576 | 942 | 185 | 370 | 231 | 462 | 998 | 317,5 H7 | 8 | 17,463 | 279 | | | | |

★ Dimensions are for reference only and are subject to change without notice unless certified.

† Due to interference, motor flanges cannot be used with a shaft fan. If cooling is required, use electric fan.

Type VR Double & Triple Reduction Sizes 127-137

C-Face Adapters/Dimensions — Millimeters



‡ TO LIFT ENTIRE ASSEMBLY-USE TWO HOLES AT LOW SPEED END OF DRIVE AND ONE HOLE IN BELL HOUSING

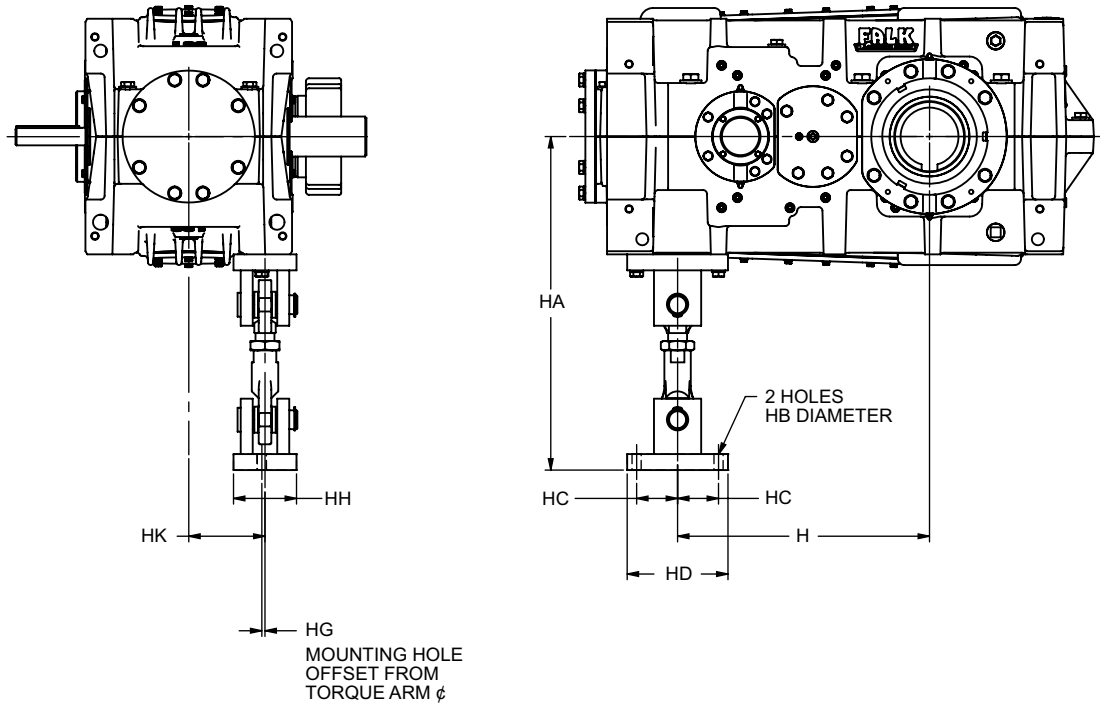
| DRIVE SIZE ★ | Motor Type | Motor Frame | Motor Coupling | | DIMENSIONS - INCHES † | | | | | | | | | | | | |
|-----------------|------------|-------------|---------------------------------|--------|-----------------------|--------|--------|-----|--------|----------|----------|----------|-----------|------------|---------------------|--------|-----|
| | | | Drive Reduction & Nominal Ratio | | A | B | C | D | E | F | MA | MB (mm) | MC | MD | ME | MF | |
| | | | VR2 | VR3 | | | | | | | | | | | | | |
| | | | ALL | ALL | | | | | | | | | | | | | |
| 127 | IEC B5 | 132 | 20R10 | 20R10 | 650 | 1027,5 | 200 | 400 | 260 | 520 | 1046 | 230 H7 | 4 | M12 x 1,75 | THRU TAP HOLE | 265 | |
| | | 160 | 20R10 | 20R10 | 650 | 1027,5 | 200 | 400 | 260 | 520 | 1067 | 250 H7 | 4 | M16 x 2,0 | | 300 | |
| | | 180 | 20R10 | 20R10 | 650 | 1027,5 | 200 | 400 | 260 | 520 | 1067 | 250 H7 | 4 | M16 x 2,0 | | 300 | |
| | | 200 | 30R10 | 30R10 | 650 | 1027,5 | 200 | 400 | 260 | 520 | 1071 | 300 H7 | 4 | M16 x 2,0 | | 350 | |
| | | 225 | 30R10 | 30R10 | 650 | 1027,5 | 200 | 400 | 260 | 520 | 1077,5 | 350 H7 | 8 | M16 x 2,0 | | 400 | |
| | 250 | 40R10 | 40R10 | 650 | 1027,5 | 200 | 400 | 260 | 520 | 1077,5 | 450 H7 | 8 | M16 x 2,0 | 500 | | | |
| | IEC B14 | 132 | 20R10 | 20R10 | 650 | 1027,5 | 200 | 400 | 260 | 520 | 1046 | 130 H7 | 4 | 12,000 | THRU CLEARANCE HOLE | 165 | |
| | | 160 | 20R10 | 20R10 | 650 | 1027,5 | 200 | 400 | 260 | 520 | 1067 | 180 H7 | 4 | 14,500 | | 215 | |
| | | NEMA | 213/215TC | 20R10 | 20R10 | 650 | 1027,5 | 200 | 400 | 260 | 520 | 1046 | 215,9 H7 | 4 | | 14,288 | 184 |
| | | | 254/256TC | 20R10 | 20R10 | 650 | 1027,5 | 200 | 400 | 260 | 520 | 1046 | 215,9 H7 | 4 | | 14,288 | 184 |
| 284/286TC | | | 20R10 | 20R10 | 650 | 1027,5 | 200 | 400 | 260 | 520 | 1046 | 266,7 H7 | 4 | 14,288 | | 229 | |
| 324/326TC | 30R10 | | 30R10 | 650 | 1027,5 | 200 | 400 | 260 | 520 | 1083,7 | 317,5 H7 | 4 | 17,463 | 279 | | | |
| 364/365TC | 40R10 | 40R10 | 650 | 1027,5 | 200 | 400 | 260 | 520 | 1107,4 | 317,5 H7 | 8 | 17,463 | 279 | | | | |
| 404/405TC | 40R10 | 40R10 | 650 | 1027,5 | 200 | 400 | 260 | 520 | 1107,4 | 317,5 H7 | 8 | 17,463 | 279 | | | | |
| 133, 137 | IEC B5 | 160 | 20R10 | 20R10 | 710 | 1141 | 212,5 | 425 | 274 | 548 | 1170,4 | 250 H7 | 4 | M16 x 2,0 | THRU TAP HOLE | 300 | |
| | | 180 | 20R10 | 20R10 | 710 | 1141 | 212,5 | 425 | 274 | 548 | 1170,4 | 250 H7 | 4 | M16 x 2,0 | | 300 | |
| | | 200 | 30R10 | 30R10 | 710 | 1141 | 212,5 | 425 | 274 | 548 | 1170,4 | 300 H7 | 4 | M16 x 2,0 | | 350 | |
| | | 225 | 30R10 | 30R10 | 710 | 1141 | 212,5 | 425 | 274 | 548 | 1204,5 | 350 H7 | 8 | M16 x 2,0 | | 400 | |
| | | 250 | 40R10 | 40R10 | 710 | 1141 | 212,5 | 425 | 274 | 548 | 1191 | 450 H7 | 8 | M16 x 2,0 | | 500 | |
| | IEC B14 | 160 | 20R10 | 20R10 | 710 | 1141 | 212,5 | 425 | 274 | 548 | 1165,1 | 180 H7 | 4 | 14,500 | THRU CLEARANCE HOLE | 215 | |
| | NEMA | 254/256TC | 20R10 | 20R10 | 710 | 1141 | 212,5 | 425 | 274 | 548 | 1159,5 | 215,9 H7 | 4 | 14,288 | | 184 | |
| | | 284/286TC | 20R10 | 20R10 | 710 | 1141 | 212,5 | 425 | 274 | 548 | 1171,7 | 266,7 H7 | 4 | 14,288 | | 229 | |
| | | 324/326TC | 30R10 | 30R10 | 710 | 1141 | 212,5 | 425 | 274 | 548 | 1187,7 | 317,5 H7 | 4 | 17,463 | | 279 | |
| | | 364/365TC | 40R10 | 40R10 | 710 | 1141 | 212,5 | 425 | 274 | 548 | 1187,7 | 317,5 H7 | 8 | 17,463 | | 279 | |
| 404/405TC | | 40R10 | 40R10 | 710 | 1141 | 212,5 | 425 | 274 | 548 | 1211,6 | 317,5 H7 | 8 | 17,463 | 279 | | | |

★ Dimensions are for reference only and are subject to change without notice unless certified.

† Due to interference, motor flanges cannot be used with a shaft fan. If cooling is required, use electric fan.

Type VP/VR Double & Triple Reduction Sizes 107-117

Torque Arm/Dimensions — Millimeters

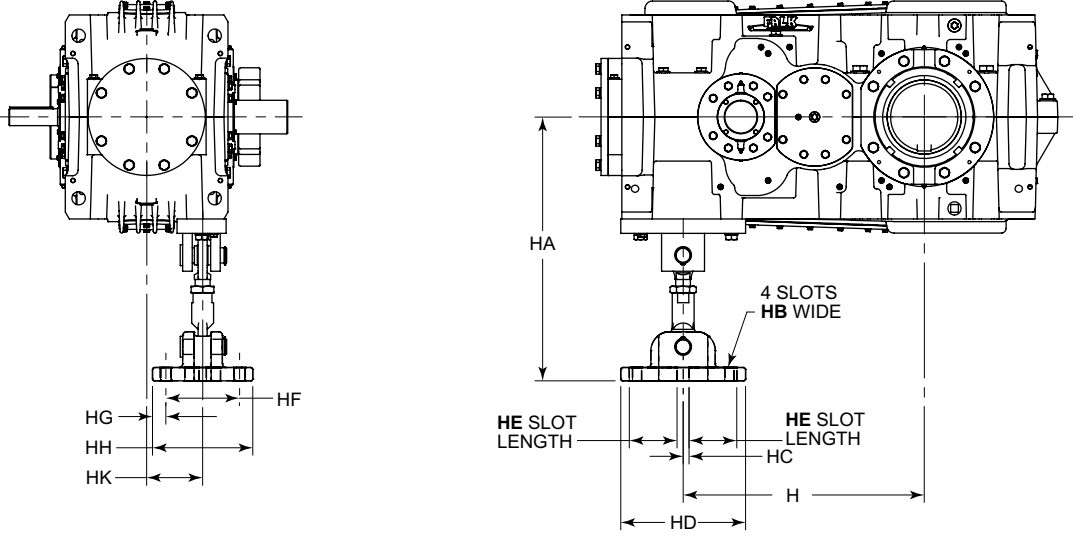


| DRIVE SIZE* | H | HA | | HB | HC | HD | HG | HH | HK |
|----------------|-------|-------|-------|------|------|-------|-----|-------|-------|
| | | Min | Max | | | | | | |
| 107 | 400,0 | 522,0 | 535,0 | 15,0 | 65,0 | 160,0 | 5,0 | 100,0 | 121,0 |
| 117 | 461,5 | 546,0 | 559,0 | 18,5 | 83,5 | 225,0 | 0,0 | 100,0 | 128,0 |

* Dimensions are for reference only and are subject to change without notice unless certified.

Type VP/R Double & Triple Reduction Sizes 127-157

Torque Arm/Dimensions — Millimeters

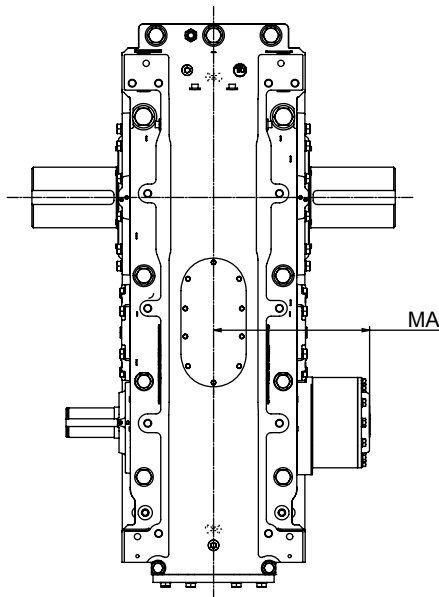


| DRIVE SIZE* | H | HA | | HB | HC | HD | HE | HF | HG | HH | HK |
|---------------|-----|-----|-----|----|----|-----|-----|-----|----|-----|-----|
| | | Min | Max | | | | | | | | |
| 127 | 505 | 640 | 663 | 28 | 16 | 330 | 118 | 195 | 35 | 265 | 146 |
| 133, 137 | 522 | 658 | 681 | 28 | 16 | 330 | 118 | 195 | 35 | 265 | 155 |
| 143, 145, 147 | 638 | 683 | 706 | 28 | 16 | 330 | 118 | 195 | 35 | 265 | 145 |
| 153, 155, 157 | 745 | 708 | 731 | 28 | 16 | 330 | 118 | 195 | 35 | 265 | 170 |

* Dimensions are for reference only and are subject to change without notice unless certified.

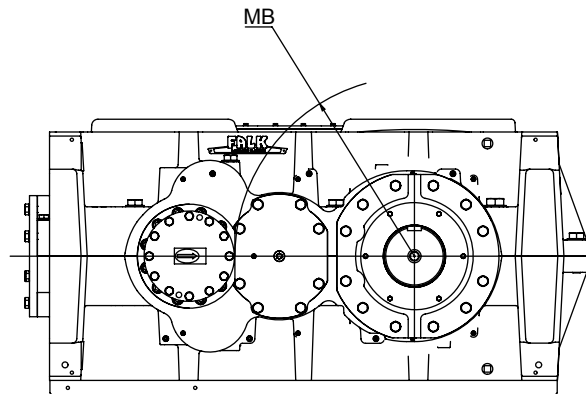
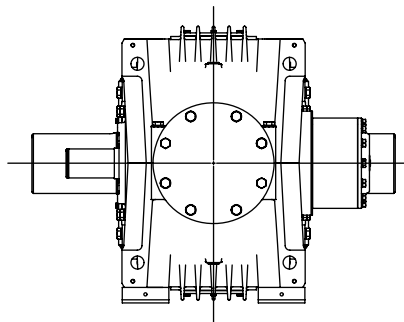
Type VP2 & VP3 Sizes 107-187

Backstop Clearance/Dimensions — Millimeters



NOTE: Check for backstop interference with couplings, sprockets, and sheaves.

NOTE: If shaft fan is required, refer to page 244 for useable shaft length (FG).



VP2 Backstop Clearance Dimensions — Millimeters

| DRIVE SIZE★ | Ratios | MA | MB |
|---------------|-------------|-----|-----|
| 107 | 5,60 - 20,0 | 258 | 230 |
| | 22,4 - 28,0 | 211 | 247 |
| 117 | 5,60 - 20,0 | 267 | 274 |
| | 22,4 - 28,0 | 258 | 292 |
| 127 | 5,60 - 20,0 | 312 | 297 |
| | 22,4 - 28,0 | 262 | 315 |
| 133, 137 | 5,60 - 20,0 | 359 | 335 |
| | 22,4 - 28,0 | 306 | 343 |
| 143, 145, 147 | 5,60 - 20,0 | 332 | 380 |
| | 22,4 - 28,0 | 320 | 390 |
| 153, 155, 157 | 5,60 - 20,0 | 415 | 455 |
| | 22,4 - 28,0 | 340 | 465 |
| 163, 165, 167 | 5,60 - 20,0 | 428 | 507 |
| | 22,4 - 28,0 | 357 | 525 |
| 173, 175, 177 | 5,60 - 18,0 | 502 | 555 |
| | 20,0 - 25,0 | 420 | 577 |
| 187 | 5,60 - 20,0 | 502 | 580 |
| | 22,4 - 28,0 | 420 | 602 |

★ Dimensions are for reference only and are subject to change without notice unless certified.

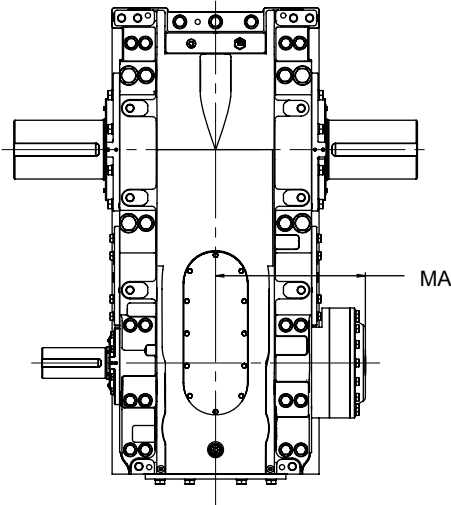
VP3 Backstop Clearance Dimensions — Millimeters

| DRIVE SIZE★ | Ratios | MA | MB |
|---------------|------------|-----|-----|
| 107 | 31,5 - 112 | 214 | 252 |
| | 125 - 160 | 204 | 257 |
| 117 | 31,5 - 112 | 240 | 287 |
| | 125 - 160 | 230 | 295 |
| 127 | 31,5 - 112 | 282 | 337 |
| | 125 - 160 | 269 | 342 |
| 133, 137 | 31,5 - 112 | 270 | 355 |
| | 125 - 160 | 265 | 383 |
| 143, 145, 147 | 31,5 - 112 | 305 | 398 |
| | 125 - 160 | 283 | 433 |
| 153, 155, 157 | 31,5 - 112 | 323 | 473 |
| | 125 - 160 | 303 | 494 |
| 163, 165, 167 | 31,5 - 112 | 364 | 525 |
| | 125 - 160 | 312 | 560 |
| 173, 175, 177 | 28,0 - 100 | 387 | 595 |
| | 112 - 140 | 346 | 625 |
| 187 | 31,5 - 112 | 387 | 620 |
| | 125 - 160 | 346 | 650 |

★ Dimensions are for reference only and are subject to change without notice unless certified.

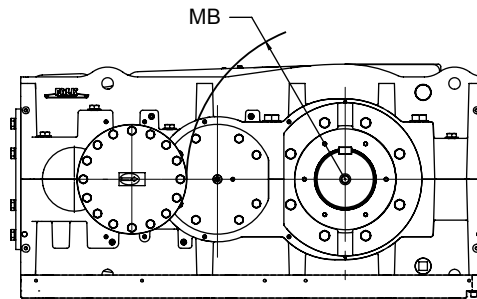
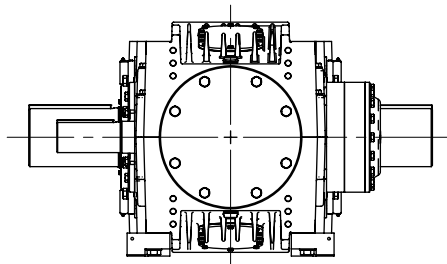
Type VP2 & VP3 Sizes 193-227

Backstop Clearance/Dimensions — Millimeters



NOTE: Check for backstop interference with couplings, sprockets, and sheaves.

NOTE: If shaft fan is required, refer to page 245 for useable shaft length (FG).



VP2 Backstop Clearance Dimensions — Millimeters

| DRIVE SIZE★ | Ratios | MA | MB |
|---------------|-------------|-------|-------|
| 193, 195, 197 | 5,00 - 18,0 | 586,6 | 620,1 |
| | 20,0 - 25,0 | 549,6 | 689,7 |
| 203, 207 | 5,60 - 20,0 | 586,6 | 620,1 |
| | 22,4 - 28,0 | 549,6 | 689,7 |
| 213, 215, 217 | 5,00 - 18,0 | 702,1 | 774,1 |
| | 20,0 - 25,0 | 591,1 | 834,7 |
| 223, 225, 227 | 5,60 - 20,0 | 702,1 | 774,1 |
| | 22,4 - 28,0 | 591,1 | 834,7 |

★ Dimensions are for reference only and are subject to change without notice unless certified.

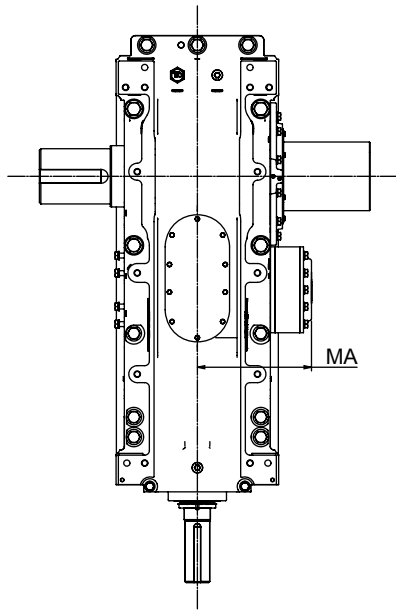
VP3 Backstop Clearance Dimensions — Millimeters

| DRIVE SIZE★ | Ratios | MA | MB |
|---------------|------------|-------|--------|
| 193, 195, 197 | 28,0 - 100 | 513,1 | 955,1 |
| | 112 - 140 | 488,6 | 972,6 |
| 203, 207 | 31,5 - 112 | 513,1 | 955,1 |
| | 125 - 160 | 488,6 | 972,6 |
| 213, 215, 217 | 28,0 - 100 | 593,1 | 1094,7 |
| | 112 - 140 | 562,1 | 1135,1 |
| 223, 225, 227 | 31,5 - 112 | 593,1 | 1094,7 |
| | 125 - 160 | 562,1 | 1135,1 |

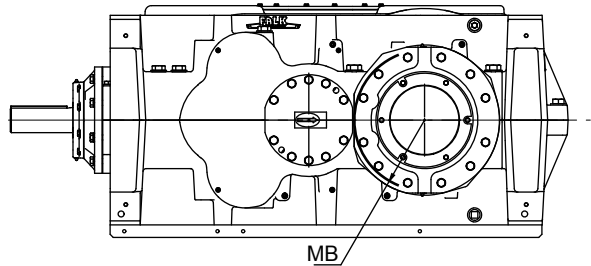
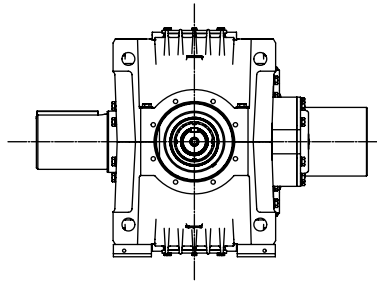
★ Dimensions are for reference only and are subject to change without notice unless certified.

Type VR2 Sizes 107-187

Backstop Clearance/Dimensions — Millimeters



NOTE: Check for backstop interference with couplings, sprockets, and sheaves.



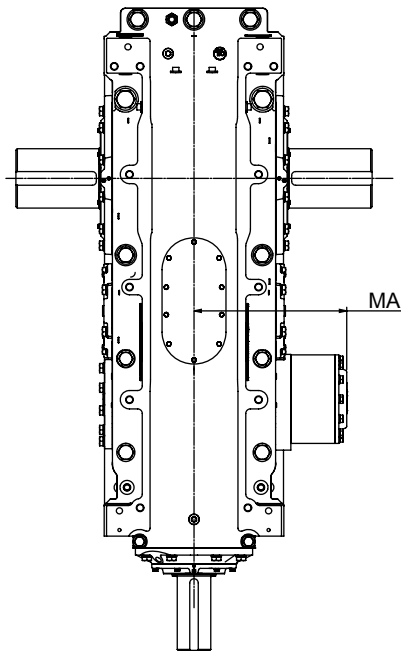
VR2 Backstop Clearance Dimensions — Millimeters

| DRIVE SIZE★ | Ratios | MA | MB |
|---------------|--------|-----|-----|
| 107 | ALL | 244 | 115 |
| 117 | ALL | 292 | 122 |
| 127 | ALL | 302 | 130 |
| 133, 137 | ALL | 336 | 137 |
| 143, 145, 147 | ALL | 393 | 185 |
| 153, 155, 157 | ALL | 380 | 190 |
| 163, 165, 167 | ALL | 372 | 230 |
| 173, 175, 177 | ALL | 493 | 265 |
| 187 | ALL | 493 | 290 |

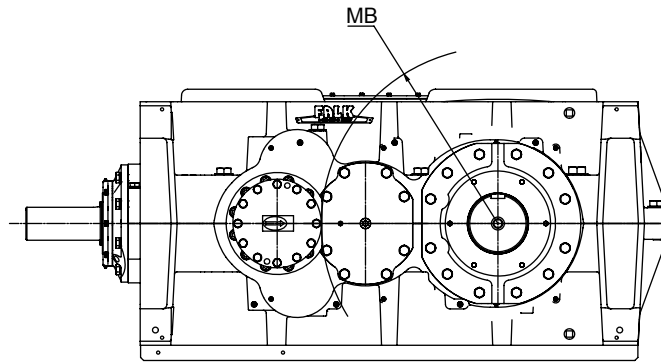
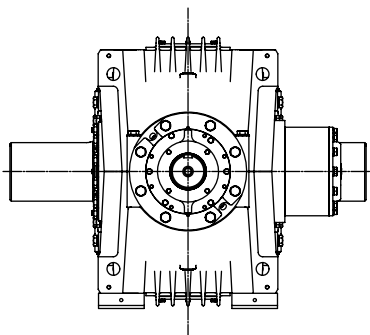
★ Dimensions are for reference only and are subject to change without notice unless certified.

Type VR3 Sizes 107-187

Backstop Clearance/Dimensions — Millimeters



NOTE: Check for backstop interference with couplings, sprockets, and sheaves.



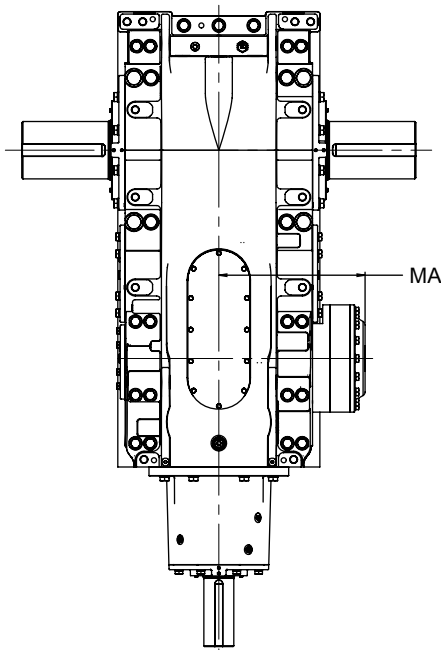
VR3 Backstop Clearance Dimensions — Millimeters

| DRIVE SIZE★ | Ratios | MA | MB |
|---------------|---------------------------|-----|-----|
| 107 | 14,0 - 50,0 & 80,0 - 90,0 | 258 | 230 |
| | 56,0 - 71,0 & 100 - 125 | 211 | 247 |
| 117 | 14,0 - 50,0 & 80,0 - 90,0 | 267 | 274 |
| | 56,0 - 71,0 & 100 - 125 | 258 | 292 |
| 127 | 14,0-50,0 & 80,0-90,0 | 312 | 297 |
| | 56,0-71,0 & 100-125 | 262 | 315 |
| 133, 137 | 14,0-50,0 & 80,0-90,0 | 359 | 335 |
| | 56,0-71,0 & 100-125 | 306 | 343 |
| 143, 145, 147 | 14,0-50,0 & 80,0-90,0 | 332 | 380 |
| | 56,0-71,0 & 100-125 | 320 | 390 |
| 153, 155, 157 | 14,0-50,0 & 80,0-90,0 | 415 | 455 |
| | 56,0-71,0 & 100-125 | 340 | 465 |
| 163, 165, 167 | 14,0-50,0 & 80,0-90,0 | 428 | 507 |
| | 56,0-71,0 & 100-125 | 357 | 525 |
| 173, 175, 177 | 12,5-45,0 & 71,0-80,0 | 502 | 555 |
| | 50,0-63,0 & 90,0-112 | 420 | 577 |
| 187 | 14,0-50,0 & 80,0-90,0 | 502 | 580 |
| | 56,0-71,0 & 100-125 | 420 | 602 |

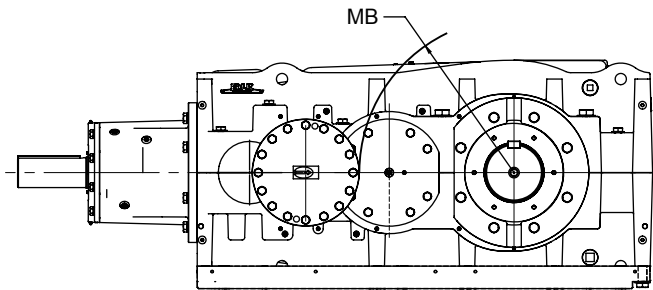
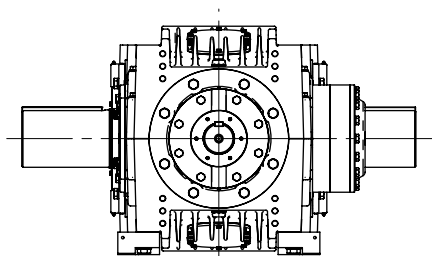
★ Dimensions are for reference only and are subject to change without notice unless certified.

Type VR3 Sizes 193-227

Backstop Clearance/Dimensions — Millimeters



NOTE: Check for backstop interference with couplings, sprockets, and sheaves.



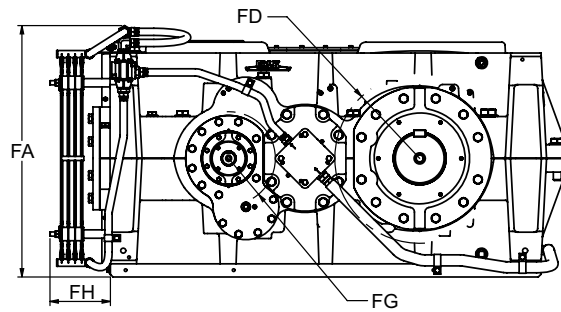
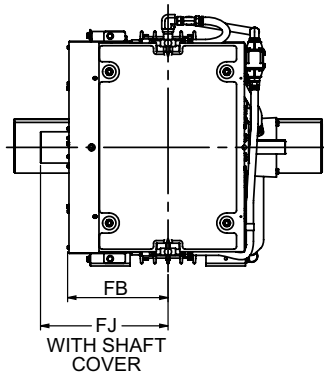
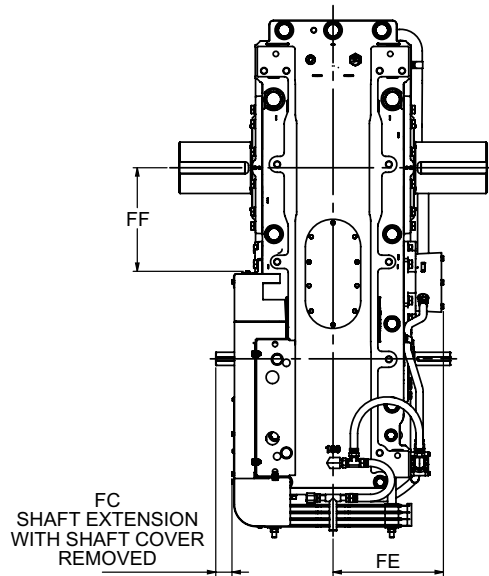
VR3 Backstop Clearance Dimensions — Millimeters

| DRIVE SIZE★ | Ratios | MA | MB |
|---------------|----------------------------|-------|-------|
| 193, 195, 197 | 8,00 - 45,0 & 71,0 - 80,0 | 586,6 | 620,1 |
| | 50,0 - 63,0 & 90,0 - 112 | 549,6 | 689,7 |
| 203, 207 | 9,00 - 50,0 & 80,0 - 90,0 | 586,6 | 620,1 |
| | 56,0 - 71,0 & 100 - 125 | 549,6 | 689,7 |
| 213, 215, 217 | 8,00 - 45,0 & 71,0 - 80,0 | 702,1 | 774,1 |
| | 50,0 - 63,0 & 90,0 - 112 | 591,1 | 834,7 |
| 223, 225, 227 | 9,001 - 50,0 & 80,0 - 90,0 | 702,1 | 774,1 |
| | 56,0 - 71,0 & 100 - 125 | 591,1 | 834,7 |

★ Dimensions are for reference only and are subject to change without notice unless certified.

Type VP2 & VP3 Sizes 107-187

DuraPlate/Dimensions — Millimeters



VP2 DuraPlate Clearance Dimensions — Millimeters

| DRIVE SIZE | Ratios | FA | FB | FC ‡ | FD * | FE | FF | FG * | FH | FJ |
|------------|--------|--------|-------|------|-------|-------|-------|-------|-------|-------|
| 107 | ALL | 598,8 | 207,6 | 74,2 | 121,6 | 277,3 | 127,8 | 51,6 | 191,0 | 281,6 |
| 117 | ALL | 633,3 | 242,1 | 64,2 | 146,6 | 298,3 | 119,5 | 66,6 | 187,0 | 307,1 |
| 127 | ALL | 682,8 | 257,1 | 67,7 | 151,5 | 323,8 | 159,5 | 86,6 | 199,0 | 326,1 |
| 133-137 | ALL | 725,3 | 286,7 | 52,1 | 196,6 | 333,1 | 214,5 | 106,6 | 199,6 | 342,7 |
| 143-147 | ALL | 776,4 | 291,8 | 79,0 | 217,5 | 340,8 | 214,5 | 131,6 | 199,0 | 376,8 |
| 153-157 | ALL | 846,0 | 321,8 | 80,0 | 222,1 | 366,3 | 264,5 | 112,1 | 199,2 | 406,8 |
| 163-167 | ALL | 908,7 | 352,9 | 97,6 | 257,1 | 387,7 | 319,2 | 147,1 | 199,0 | 452,9 |
| 173-177 | ALL | 1056,0 | 383,0 | 98,0 | 297,1 | 418,8 | 369,5 | 177,1 | 219,4 | 483,8 |
| 187 | ALL | 1056,0 | 383,0 | 98,0 | 322,1 | 418,8 | 394,5 | 177,1 | 219,4 | 483,8 |

‡ Allows 3 mm clearance from shroud.

* Clearance to first point of interference at a depth of 1.0 times shaft extension diameter.

VP3 DuraPlate Clearance Dimensions — Millimeters

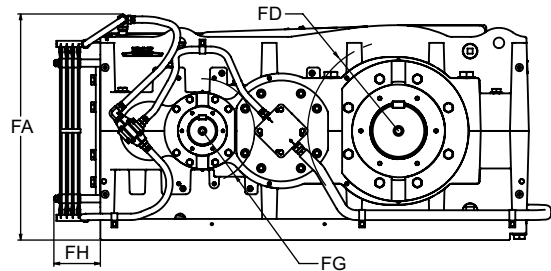
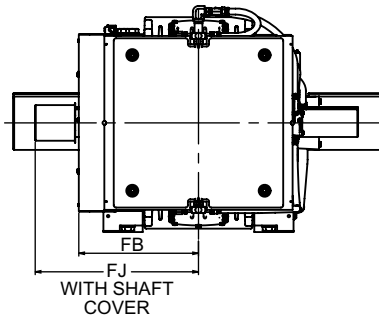
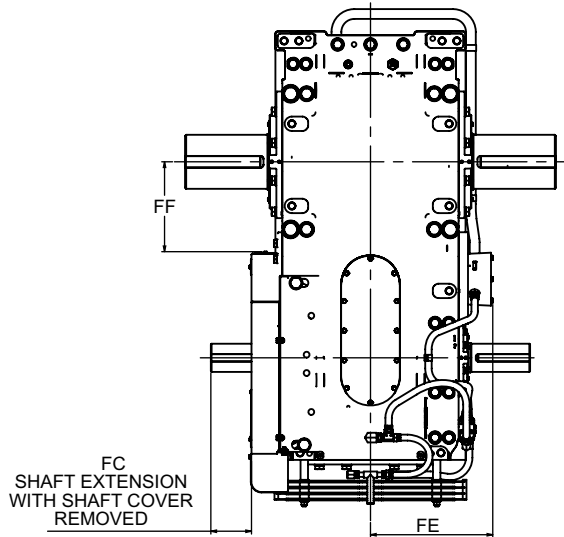
| DRIVE SIZE | Ratios | FA | FB | FC ‡ | FD * | FE | FF | FG * | FH | FJ |
|------------|--------|-------------------|-------|------|-------|-------|-------|-------|-------|-------|
| 107 | ALL | - NOT AVAILABLE - | | | | | | | | |
| 117 | ALL | - NOT AVAILABLE - | | | | | | | | |
| 127 | ALL | - NOT AVAILABLE - | | | | | | | | |
| 133-137 | ALL | 625,3 | 274,7 | 34,1 | 147,1 | 339,4 | 214,5 | 57,1 | 199,6 | 330,7 |
| 143-147 | ALL | 676,4 | 291,8 | 49,0 | 177,1 | 346,8 | 214,5 | 82,1 | 199,0 | 376,8 |
| 153-157 | ALL | 746,0 | 321,8 | 50,0 | 222,1 | 366,3 | 264,5 | 112,1 | 199,2 | 406,8 |
| 163-167 | ALL | 808,7 | 340,0 | 54,0 | 257,1 | 387,7 | 397,9 | 147,1 | 199,0 | 395,3 |
| 173-177 | ALL | 954,1 | 383,0 | 68,0 | 297,1 | 418,8 | 369,5 | 177,1 | 219,4 | 483,8 |
| 187 | ALL | 954,1 | 383,0 | 68,0 | 322,1 | 418,8 | 394,5 | 177,1 | 219,4 | 483,8 |

‡ Allows 3 mm clearance from shroud.

* Clearance to first point of interference at a depth of 1.0 times shaft extension diameter.

Type VP2 & VP3 Sizes 193-227

DuraPlate/Dimensions — Millimeters



VP2 DuraPlate Clearance Dimensions — Millimeters

| DRIVE SIZE | Ratios | FA † | FB | FC ‡ | FD * | FE | FF | FG * | FH | FJ |
|----------------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 193, 195, 197 | ALL | 1063,1 | 534,6 | 152,2 | 347,1 | 520,9 | 377,1 | 222,1 | 199,0 | 695,6 |
| 203, 207 | ALL | 1063,1 | 534,6 | 152,2 | 387,1 | 520,9 | 417,1 | 222,1 | 199,0 | 695,6 |
| 213, 215, 217 | ALL | 1290,7 | 601,1 | 170,7 | 427,1 | 570,9 | 512,1 | 277,1 | 199,0 | 787,1 |
| 223, 225, 227 | ALL | 1290,7 | 601,1 | 170,7 | 477,1 | 570,9 | 562,1 | 277,1 | 199,0 | 787,1 |

† Includes 100 mm for hose clearance.

‡ Allows 3 mm clearance from shroud.

* Clearance to first point of interference at a depth of 1.0 times shaft extension diameter.

VP3 DuraPlate Clearance Dimensions — Millimeters

| DRIVE SIZE | Ratios | FA † | FB | FC ‡ | FD * | FE | FF | FG * | FH | FJ |
|----------------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 193, 195, 197 | ALL | 1063,1 | 489,1 | 117,7 | 682,2 | 513,9 | 674,5 | 112,1 | 199,0 | 641,1 |
| 203, 207 | ALL | 1063,1 | 489,1 | 117,7 | 722,2 | 513,9 | 714,5 | 112,1 | 199,0 | 641,1 |
| 213, 215, 217 | ALL | 1214,5 | 534,1 | 147,7 | 817,2 | 565,9 | 781,5 | 147,1 | 199,0 | 686,1 |
| 223, 225, 227 | ALL | 1214,5 | 534,1 | 147,7 | 867,2 | 565,9 | 831,5 | 147,1 | 199,0 | 686,1 |

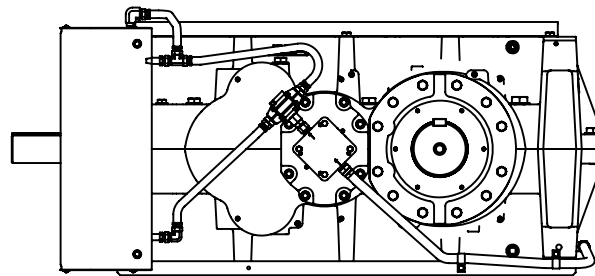
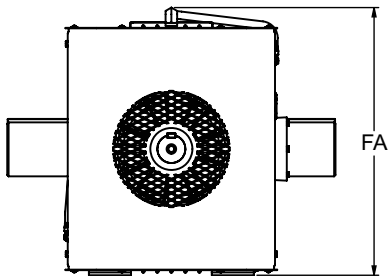
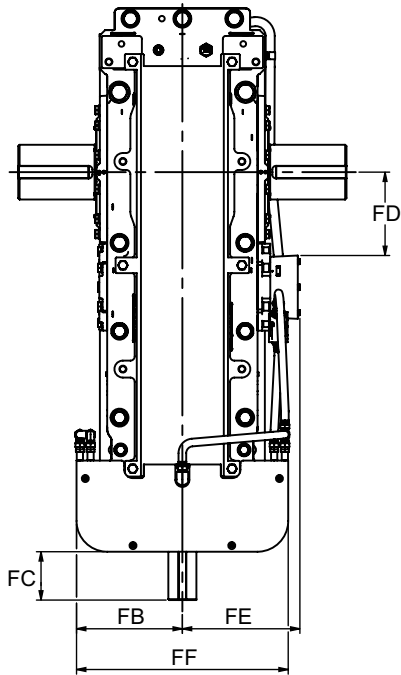
† Includes 100 mm for hose clearance.

‡ Allows 3 mm clearance from shroud.

* Clearance to first point of interference at a depth of 1.0 times shaft extension diameter.

Type VR2 & VR3 Sizes 107-187

DuraPlate/Dimensions — Millimeters



VR2 DuraPlate Clearance Dimensions — Inches

| DRIVE SIZE | Ratios | FA † | FB | FC ‡ | FD * | FE | FF |
|------------|--------|--------|-------|-------|-------|-------|-------|
| 107 | ALL | 598,8 | 234,0 | 72,7 | 121,6 | 334,4 | 468,0 |
| 117 | ALL | 646,0 | 254,7 | 76,8 | 146,6 | 355,4 | 509,4 |
| 127 | ALL | 695,5 | 278,0 | 108,9 | 171,6 | 381,0 | 556,0 |
| 133-137 | ALL | 725,3 | 294,5 | 119,1 | 196,6 | 333,1 | 589,0 |
| 143-147 | ALL | 814,5 | 314,0 | 112,0 | 226,6 | 340,8 | 628,0 |
| 153-157 | ALL | 864,4 | 325,5 | 127,6 | 222,1 | 366,3 | 651,0 |
| 163-167 | ALL | 921,4 | 347,3 | 145,4 | 257,1 | 387,7 | 694,5 |
| 173-177 | ALL | 1054,1 | 377,3 | 172,4 | 297,1 | 418,9 | 754,5 |
| 187 | ALL | 1054,1 | 377,3 | 172,4 | 322,1 | 418,9 | 754,5 |

† Includes 100 mm for hose clearance.

‡ Allows 3 mm clearance from shroud.

* Clearance to first point of interference at a depth of 1.0 times shaft extension diameter.

VR3 DuraPlate Clearance Dimensions — Inches

| DRIVE SIZE | Ratios | FA † | FB | FC ‡ | FD * | FE | FF |
|------------|------------------------|--------|-------|-------|-------|-------|-------|
| 107 | 14,0-50,0 80,0-90,0 | 598,8 | 234,0 | 72,7 | 236,6 | 326,5 | 468,0 |
| | 56,0-71,0 100-125 | | | | | 320,6 | |
| | 14,0-50,0 80,0-90,0 | | | | | 346,5 | |
| 117 | 56,0-71,0 100-125 | 646,0 | 254,7 | 76,8 | 293,6 | 349,0 | 509,4 |
| | 14,0-50,0 80,0-90,0 | | | | | 365,5 | |
| 127 | 56,0-71,0 100-125 | 695,5 | 278,0 | 108,9 | 338,6 | 355,5 | 556,0 |
| | 14,0-50,0 80,0-90,0 | | | | | 374,8 | |
| 133-137 | ALL | 725,3 | 294,5 | 119,0 | 383,6 | 374,8 | 589,0 |
| 143-147 | ALL | 814,5 | 314,0 | 112,0 | 438,6 | 390,2 | 628,0 |
| 153-157 | ALL | 864,4 | 325,5 | 127,5 | 447,2 | 403,2 | 651,0 |
| 163-167 | ALL | 921,4 | 347,3 | 145,4 | 545,6 | 426,8 | 694,5 |
| 173-177 | ALL | 1066,8 | 377,3 | 172,4 | 615,6 | 452,8 | 754,5 |
| 187 | ALL | 1066,8 | 377,3 | 172,4 | 640,6 | 452,8 | 754,5 |

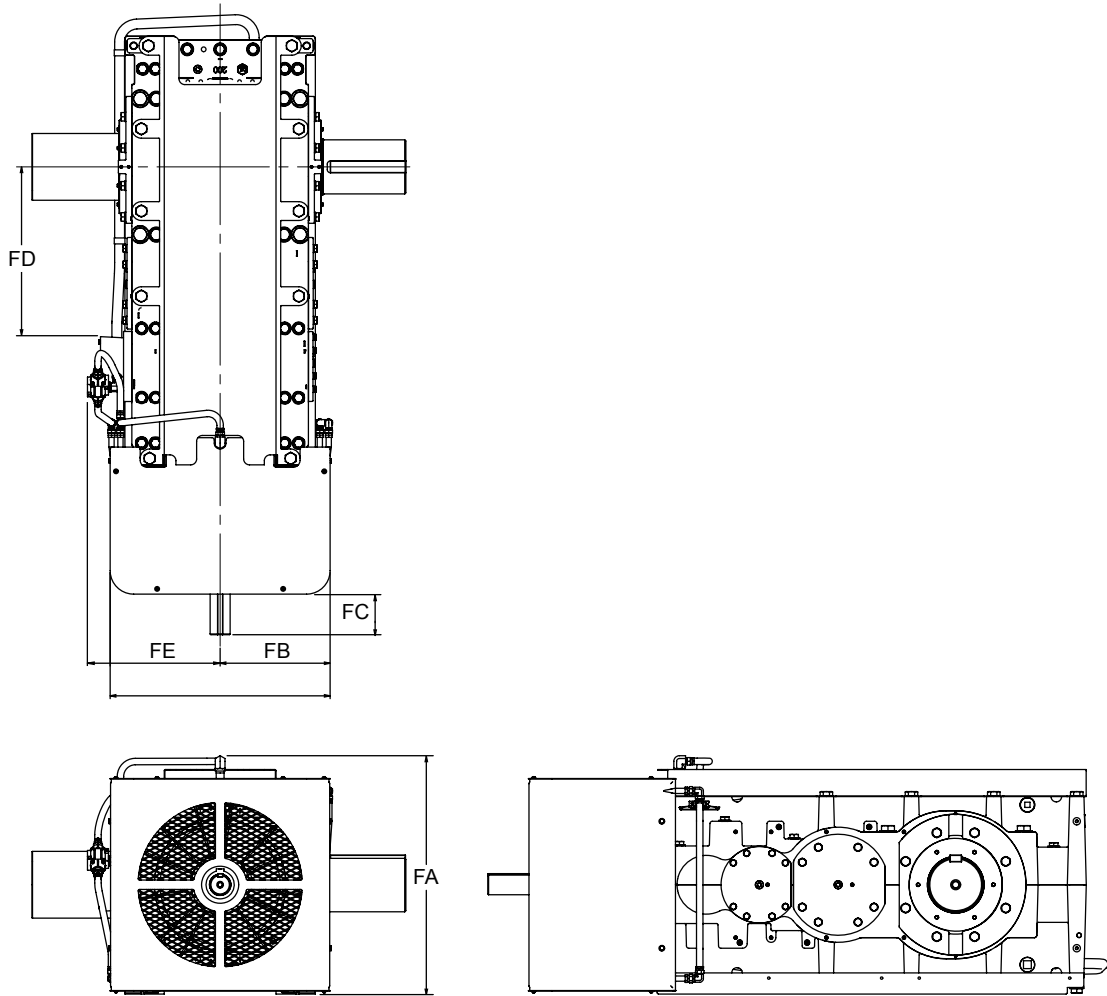
† Includes 100 mm for hose clearance.

‡ Allows 3 mm clearance from shroud.

* Clearance to first point of interference at a depth of 1.0 times shaft extension diameter.

Type VR3 Sizes 193-227

DuraPlate/Dimensions — Millimeters



VR3 DuraPlate Clearance Dimensions — Millimeters

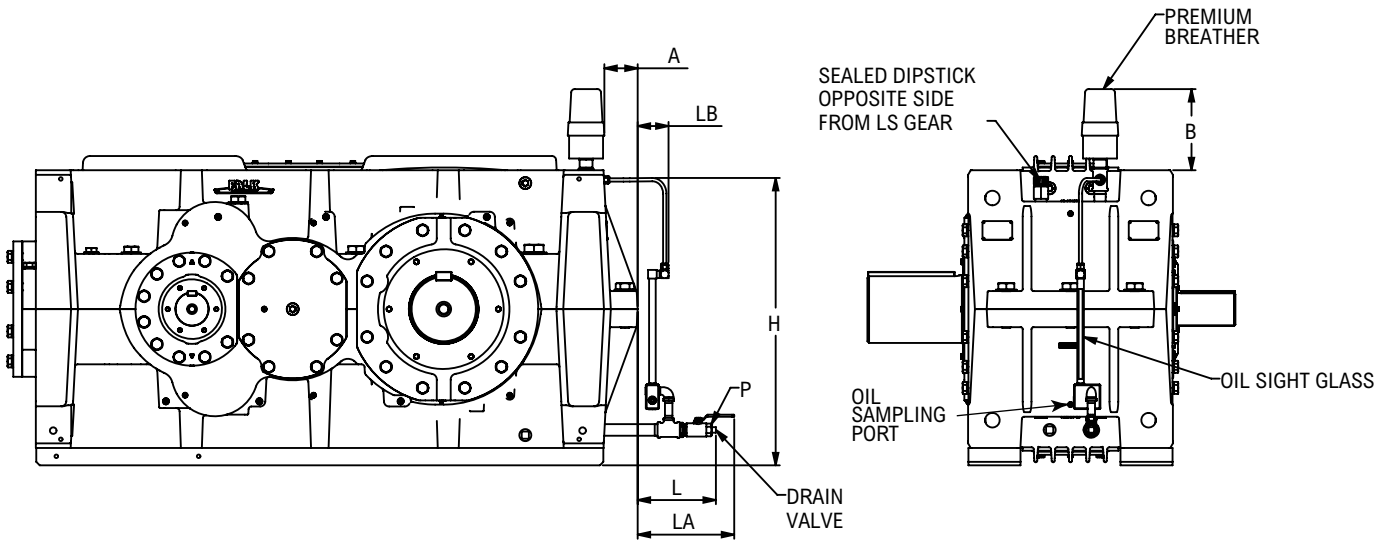
| DRIVE SIZE | Ratios | FA † | FB | FC ‡ | FD | FE | FF |
|----------------------|--------|--------|-------|-------|-------|-------|--------|
| 193, 195, 197 | ALL | 1113,9 | 467,8 | 175,1 | 682,2 | 564,3 | 935,6 |
| 203, 207 | ALL | 1113,9 | 467,8 | 175,1 | 722,2 | 564,3 | 935,6 |
| 213, 215, 217 | ALL | 1316,1 | 512,8 | 171,2 | 817,2 | 613,8 | 1025,6 |
| 223, 225, 227 | ALL | 1316,1 | 512,8 | 171,2 | 867,2 | 613,8 | 1025,6 |

† Includes 100 mm for hose clearance.

‡ Allows 3 mm clearance from shroud.

Type VP & VR Sizes 107-187

Lubrication Package/Dimensions — Millimeters

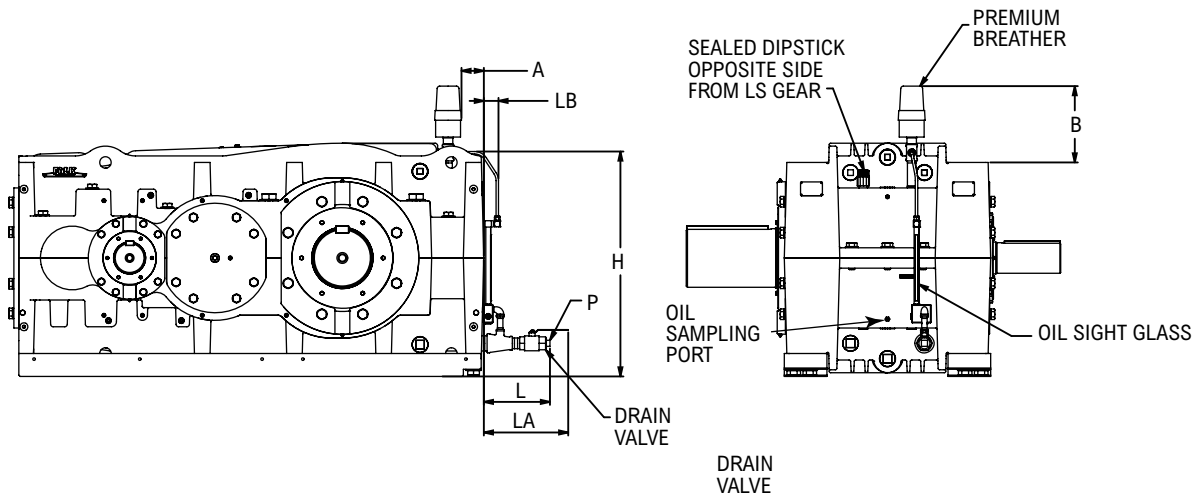


All Reductions and Ratios — Millimeters

| DRIVE SIZE | A | B | H | L | LA | LB | P |
|---------------|-----|-----|-----|-----|-----|----|-------------|
| 107 | 18 | 333 | 470 | 202 | 276 | 65 | 0,75-14 NPT |
| 117 | 15 | 329 | 514 | 206 | 280 | 68 | 0,75-14 NPT |
| 127 | 35 | 317 | 598 | 209 | 262 | 73 | 0,75-14 NPT |
| 133, 137 | 45 | 337 | 605 | 225 | 278 | 88 | 0,75-14 NPT |
| 143, 145, 147 | 37 | 340 | 668 | 233 | 286 | 96 | 0,75-14 NPT |
| 153, 155, 157 | 43 | 340 | 713 | 227 | 280 | 91 | 0,75-14 NPT |
| 163, 165, 167 | 89 | 319 | 753 | 226 | 278 | 89 | 0,75-14 NPT |
| 173, 175, 177 | 119 | 293 | 886 | 226 | 278 | 89 | 0,75-14 NPT |
| 187 | 119 | 293 | 886 | 226 | 278 | 89 | 0,75-14 NPT |

Type VP & VR Sizes 193-227

Lubrication Package/Dimensions — Millimeters

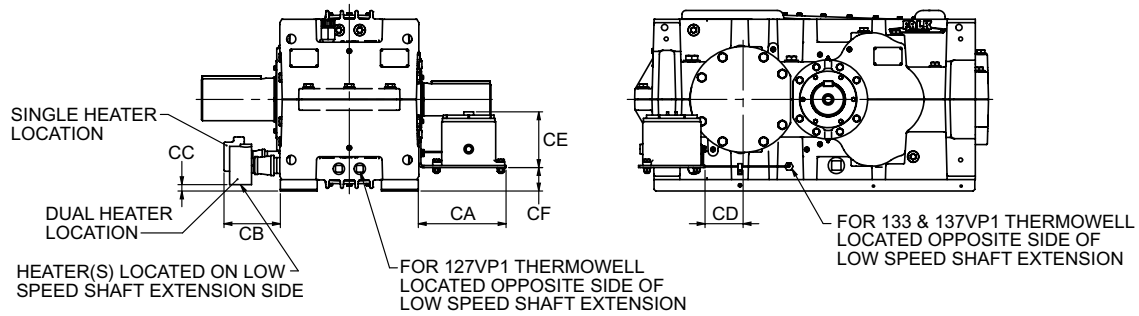


All Reductions and Ratios

| DRIVE SIZE | A | B | H | L | LA | LB | P |
|---------------|-----|-----|------|-----|-----|----|----------------|
| 193, 195, 197 | 63 | 359 | 936 | 260 | 331 | 64 | 1,250-11,5 NPT |
| 203, 207 | 63 | 359 | 936 | 260 | 331 | 64 | 1,250-11,5 NPT |
| 213, 215, 217 | 129 | 418 | 1115 | 274 | 345 | 78 | 1,250-11,5 NPT |
| 223, 225, 227 | 129 | 418 | 1115 | 274 | 345 | 78 | 1,250-11,5 NPT |

Type VP1 Sizes 107-137

Immersion Heater Package/Dimensions — Millimeters

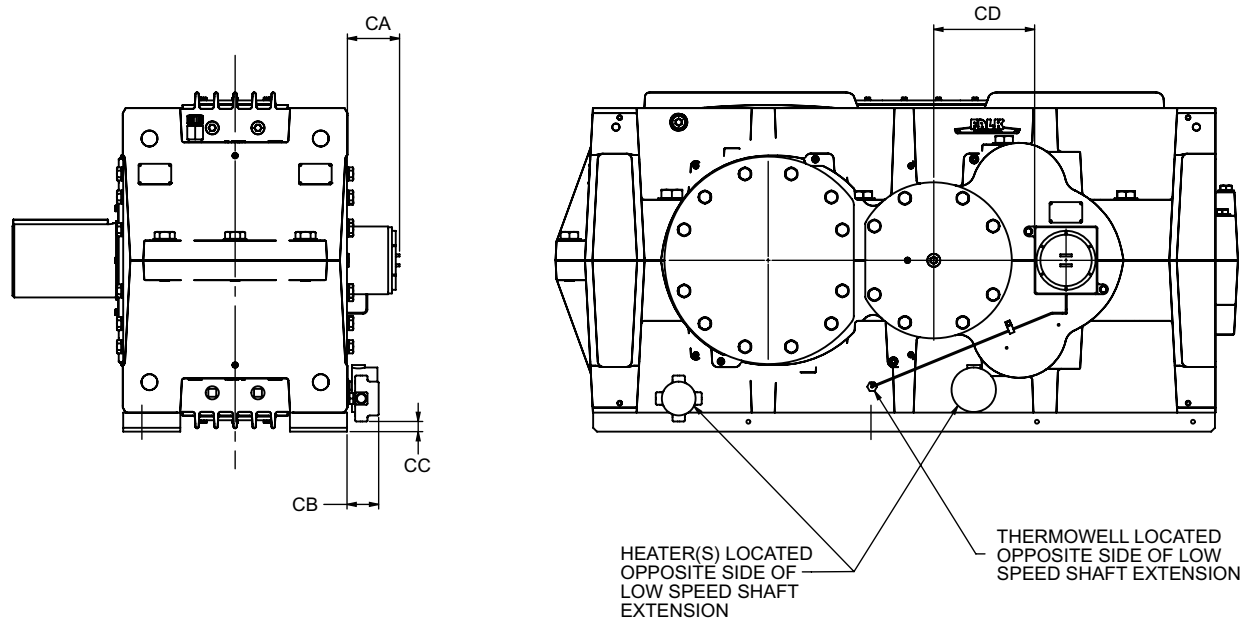


Single Reduction and Ratios

| DRIVE SIZE | CA | CB | CC | CD | CE | | CF |
|------------|-------|-------|------|-------|---------------|--------------------------------|------|
| | | | | | 120V/60HZ/1PH | 240V/60HZ/3PH 480V/60HZ/3PH | |
| 107 | 269,7 | 106,7 | 8,7 | 63,4 | 88,9 | 170,4 | 30,5 |
| 117 | 267,7 | 108,4 | 9,7 | 96,4 | 88,9 | 170,4 | 63,5 |
| 127 | 267,7 | 88,3 | 34,2 | 103,4 | 88,9 | 170,4 | 34,5 |
| 133, 137 | 268,3 | 172,2 | 19,5 | 116,4 | 88,9 | 170,4 | 71,7 |

Type VP1 Sizes 163-187

Immersion Heater Package/Dimensions — Millimeters

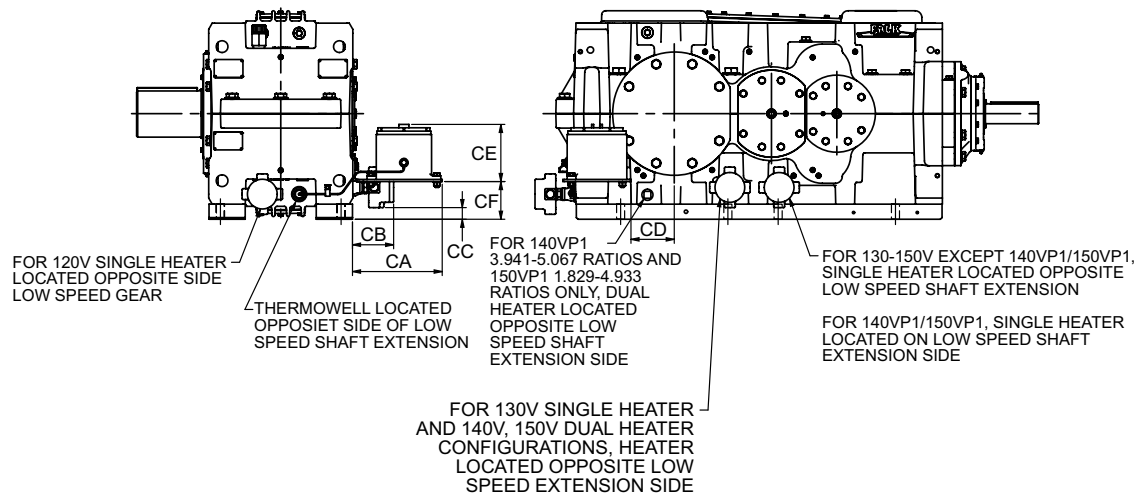


Single Reduction and Ratios

| DRIVE SIZE | CA | | | CB | | | CC | CD | | |
|-------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------|---------------------|---------------------|---------------------|
| | 120V 60HZ 1PH | 240V 60HZ 3PH | 480V 60HZ 3PH | 120V 60HZ 1PH | 240V 60HZ 3PH | 480V 60HZ 3PH | | 120V 60HZ 1PH | 240V 60HZ 3PH | 480V 60HZ 3PH |
| 163 165 167 | 55,6 | 137,0 | 137,0 | 116,1 | 116,1 | 116,1 | 11,7 | 169,5 | 205,0 | 205,0 |
| 173 175 177 | 55,6 | 137,0 | 137,0 | 83,2 | 83,2 | 94,3 | 26,7 | 201,0 | 265,0 | 265,0 |
| 187 | 55,6 | 137,0 | 137,0 | 83,2 | 83,2 | 94,3 | 26,7 | 201,0 | 265,0 | 265,0 |

Type VP1 (except 107, 117, 127, 133 & 137), VP2, VP3, VR2 & VR3 Sizes 127-157

Immersion Heater Package/Dimensions — Millimeters

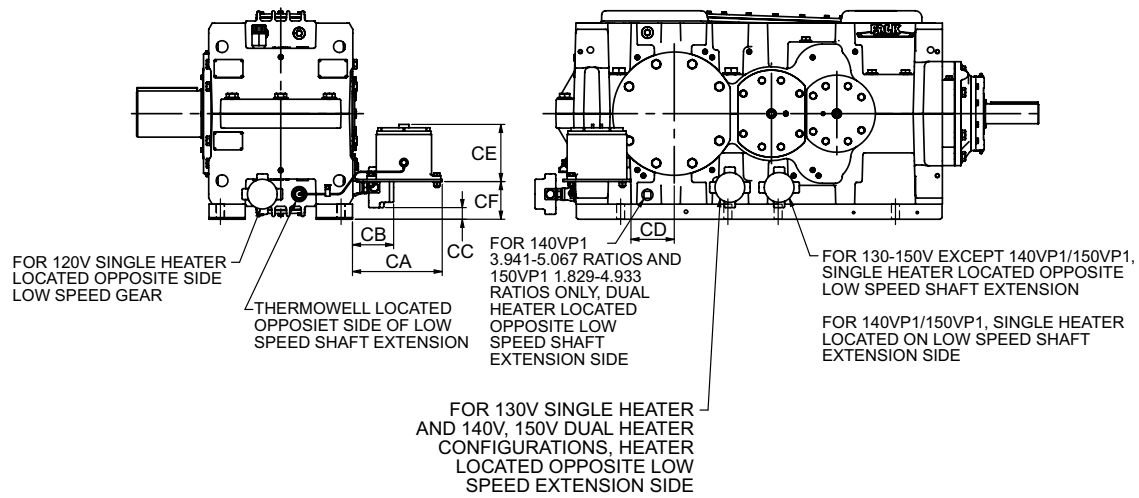


All Reductions and Ratios

| DRIVE SIZE | CA | CB | CC | CD | CE | | | CF |
|-------------------|-------|-------|------|-------|---------------------|---------------------|---------------------|----|
| | | | | | 120V 60HZ 1PH | 240V 60HZ 3PH | 480V 60HZ 3PH | |
| 107 | 269,7 | 106,7 | 12,7 | 63,4 | 88,9 | 170,4 | 30,5 | |
| 117 | 267,7 | 108,4 | 9,7 | 96,4 | 88,9 | 170,4 | 63,5 | |
| 127 | 267,7 | 107,7 | 4,68 | 98,4 | 88,9 | 170,4 | 30,6 | |
| 133 137 | 268,3 | 101,5 | 23,7 | 146,4 | 88,9 | 170,4 | 71,7 | |
| 143 145 147 | 267,7 | 122,8 | 34,7 | 129,1 | 88,9 | 170,4 | 112,6 | |
| 153 155 157 | 267,7 | 101,8 | 4,7 | 129,1 | 88,9 | 170,4 | 55,6 | |

Type VP1 (except 107, 117, 127, 133 & 137), VP2, VP3, VR2 & VR3 Sizes 127-157

Immersion Heater Package/Dimensions — Millimeters

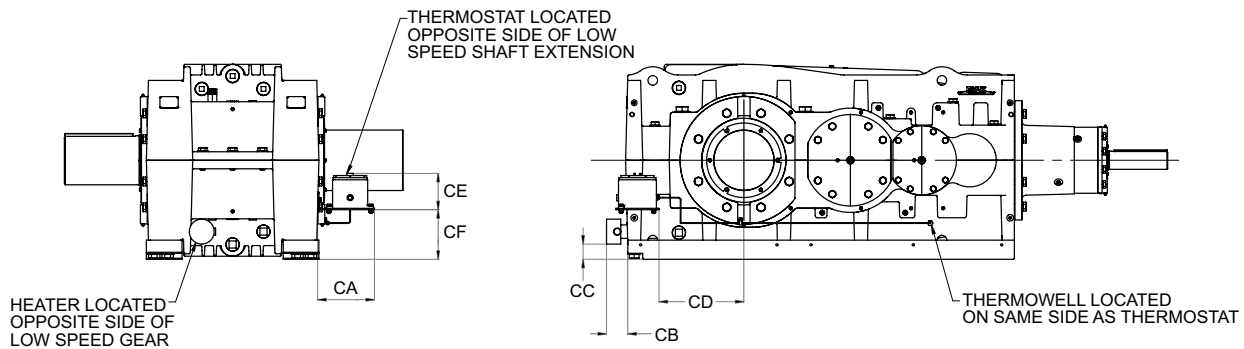


All Reductions and Ratios

| DRIVE SIZE | CA | CB | CC | CD | CE | | | CF |
|-------------------|-------|-------|------|-------|---------------------|---------------------|---------------------|----|
| | | | | | 120V 60HZ 1PH | 240V 60HZ 3PH | 480V 60HZ 3PH | |
| 107 | 269,7 | 106,7 | 12,7 | 63,4 | 88,9 | 170,4 | 30,5 | |
| 117 | 267,7 | 108,4 | 9,7 | 96,4 | 88,9 | 170,4 | 63,5 | |
| 127 | 267,7 | 107,7 | 4,68 | 98,4 | 88,9 | 170,4 | 30,6 | |
| 133 137 | 268,3 | 101,5 | 23,7 | 146,4 | 88,9 | 170,4 | 71,7 | |
| 143 145 147 | 267,7 | 122,8 | 34,7 | 129,1 | 88,9 | 170,4 | 112,6 | |
| 153 155 157 | 267,7 | 101,8 | 4,7 | 129,1 | 88,9 | 170,4 | 55,6 | |

Type VP1, VP2, VP3, & VR3 Sizes 193-227

Immersion Heater Package/Dimensions — Millimeters

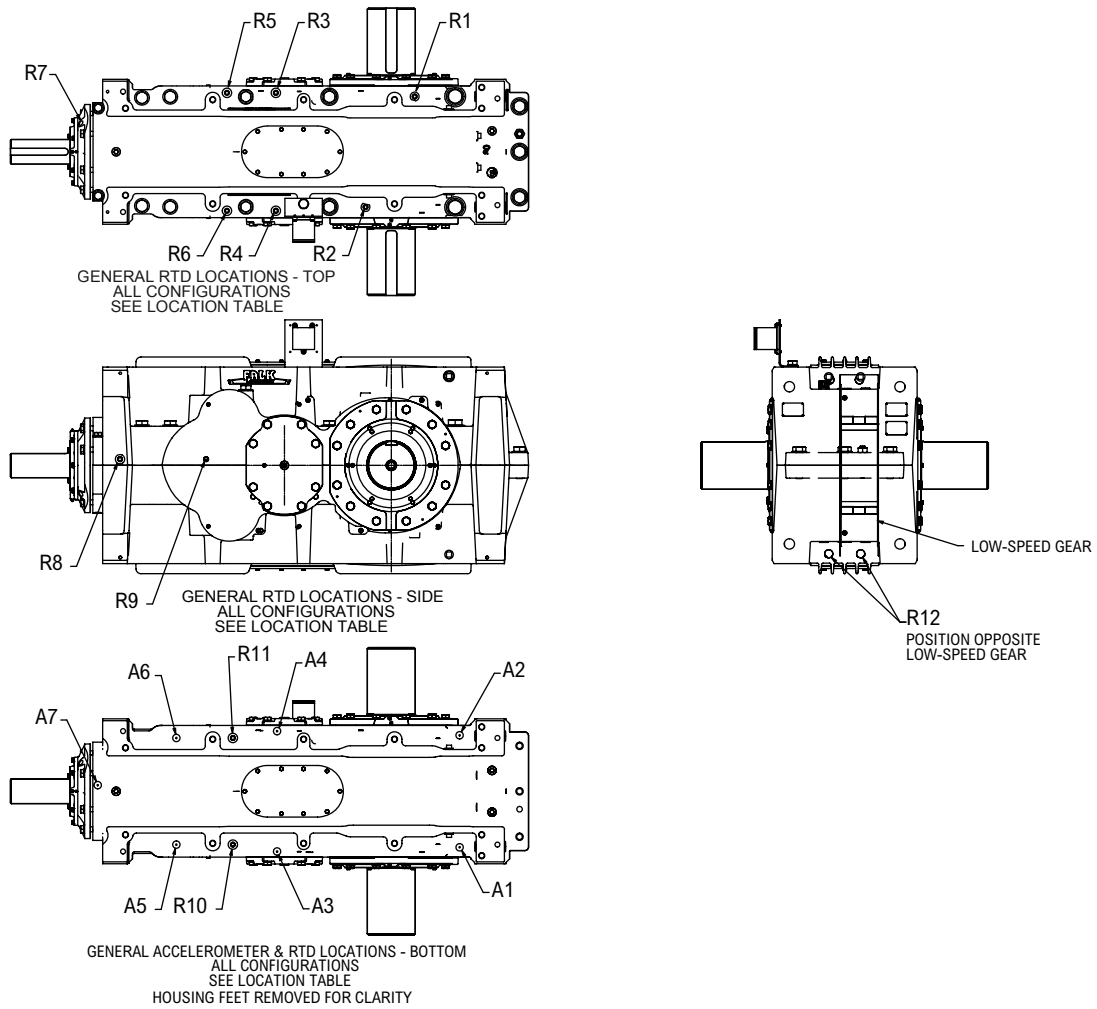


All Reductions and Ratios

| DRIVE SIZE | CA | CB | CC | CD | CE | | CF |
|---------------|-------|-------|------|-------|------|--------------|-------|
| | | | | | 120V | 240V 480V | |
| 193, 195, 197 | 209,6 | 150,8 | 71,5 | 340,8 | 92,1 | 173,5 | 233,1 |
| 203, 207 | 209,6 | 150,8 | 71,5 | 380,8 | 92,1 | 173,5 | 233,1 |
| 213, 215, 217 | 209,6 | 90,8 | 71,5 | 416,3 | 92,1 | 173,5 | 288,1 |
| 223, 225, 227 | 209,6 | 90,8 | 71,5 | 466,3 | 92,1 | 173,5 | 288,1 |

Type VP & VR Sizes 107-127

Condition Monitoring Package/Dimensions — Millimeters

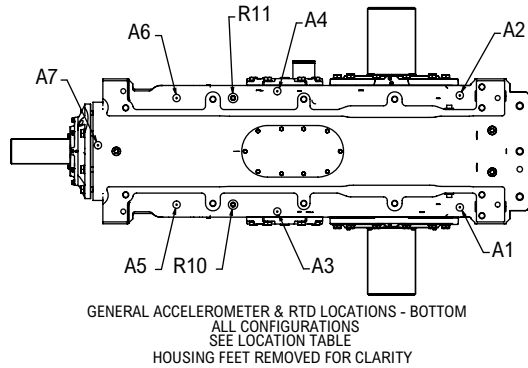
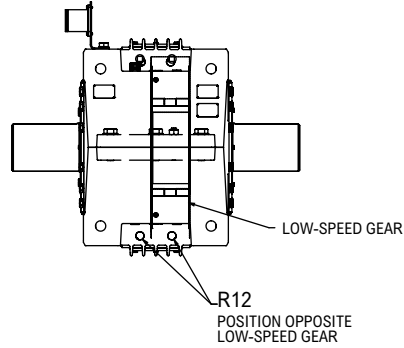
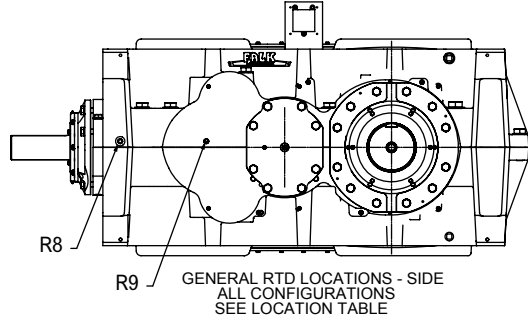
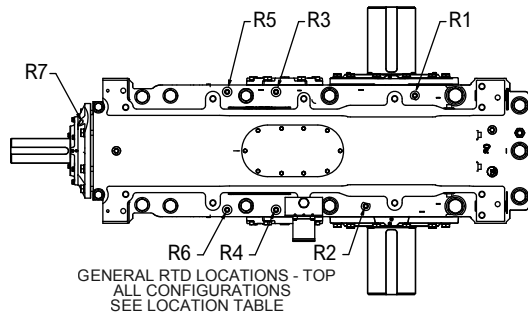


LOCATION TABLE

| Description | Item Number Location | Drive Size and Type | | | | | | | | | | | | | | |
|-----------------------|----------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 107 | | | | | 117 | | | | | 127 | | | | |
| | | VP1 | VP2 | VP3 | VR2 | VR3 | VP1 | VP2 | VP3 | VR2 | VR3 | VP1 | VP2 | VP3 | VR2 | VR3 |
| Nominal Ratios | | All | All | All | All | All | All | All | All | All | All | All | All | All | All | All |
| RTD | R1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| RTD | R2 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| RTD | R3 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| RTD | R4 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| RTD | R5 | ... | X | X | ... | X | ... | X | X | ... | X | ... | X | X | ... | X |
| RTD | R6 | ... | X | X | ... | X | ... | X | X | ... | X | ... | X | X | ... | X |
| RTD | R7 | ... | ... | ... | X | X | ... | ... | ... | X | X | ... | ... | ... | - | X |
| RTD | R8 | ... | ... | ... | - | X | ... | ... | ... | ... | X | ... | ... | ... | X | X |
| RTD | R9 | ... | ... | ... | X | ... | ... | ... | X | ... | ... | ... | ... | X | ... | ... |
| RTD | R10 | ... | ... | X | ... | ... | ... | ... | X | ... | ... | ... | ... | X | ... | ... |
| RTD | R11 | ... | ... | X | ... | ... | ... | ... | X | ... | ... | ... | ... | X | ... | ... |
| Sump RTD | R12 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Accelerometer | A1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Accelerometer | A2 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Accelerometer | A3 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Accelerometer | A4 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Accelerometer | A5 | ... | X | X | ... | X | ... | X | X | ... | X | ... | X | X | ... | X |
| Accelerometer | A6 | ... | X | X | ... | X | ... | X | X | ... | X | ... | X | X | ... | X |
| Accelerometer | A7 | ... | ... | ... | X | X | ... | ... | ... | X | X | ... | ... | ... | X | X |

Type VP & VR Sizes 133-157

Condition Monitoring Package/Dimensions — Millimeters

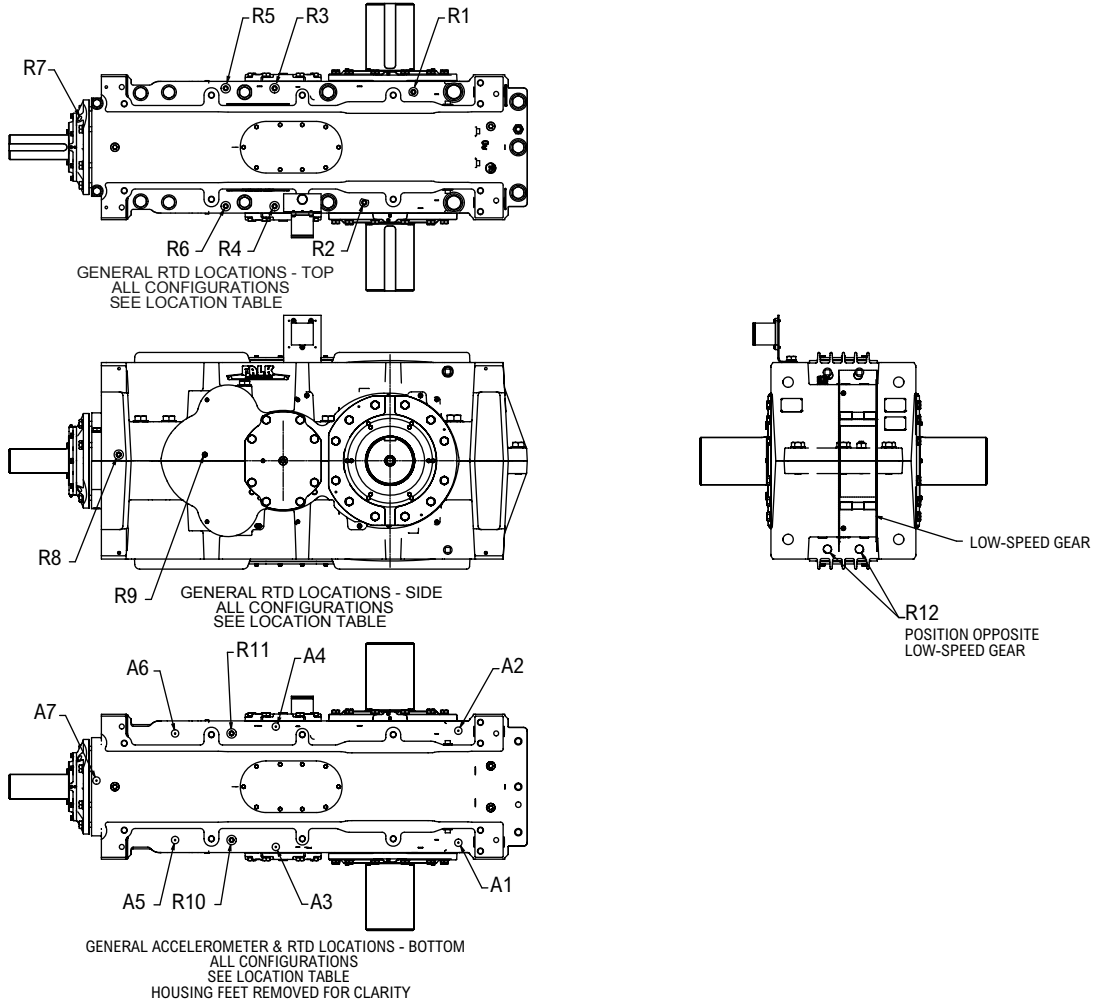


LOCATION TABLE

| Description | Item Number Location | Drive Size and Type | | | | | | | | | | | | | | | |
|-----------------------|----------------------|---------------------|-----|-----|-----|-----|---------------|-----|-----|-----|-----|---------------|-----|----------|-----|-----------|----------|
| | | 133, 137 | | | | | 143, 145, 147 | | | | | 153, 155, 157 | | | | | |
| | | VP1 | VP2 | VP3 | VR2 | VR3 | VP1 | VP2 | VP3 | VR2 | VR3 | VP1 | VP2 | VP3 | VR2 | VR3 | |
| Nominal Ratios | | All | All | All | All | All | All | All | All | All | All | All | All | 31.5-112 | All | 14.0-71.0 | 80.0-125 |
| RTD | R1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| RTD | R2 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| RTD | R3 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| RTD | R4 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| RTD | R5 | ... | X | X | ... | X | ... | X | X | ... | X | ... | X | X | ... | X | X |
| RTD | R6 | ... | X | X | ... | X | ... | X | X | ... | X | ... | X | X | ... | X | X |
| RTD | R7 | ... | ... | ... | ... | X | ... | ... | ... | X | X | ... | ... | ... | ... | X | X |
| RTD | R8 | ... | ... | ... | X | X | ... | ... | ... | X | ... | ... | ... | ... | X | X | X |
| RTD | R9 | ... | ... | ... | X | ... | ... | ... | X | ... | ... | ... | ... | ... | X | ... | ... |
| RTD | R10 | ... | ... | X | ... | ... | ... | X | ... | ... | ... | ... | X | ... | ... | ... | ... |
| RTD | R11 | ... | ... | X | ... | ... | ... | X | ... | ... | ... | ... | X | ... | ... | ... | ... |
| Sump RTD | R12 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Accelerometer | A1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Accelerometer | A2 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Accelerometer | A3 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Accelerometer | A4 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Accelerometer | A5 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Accelerometer | A6 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Accelerometer | A7 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |

Type VP & VR Sizes 163-187

Condition Monitoring Package/Dimensions — Millimeters

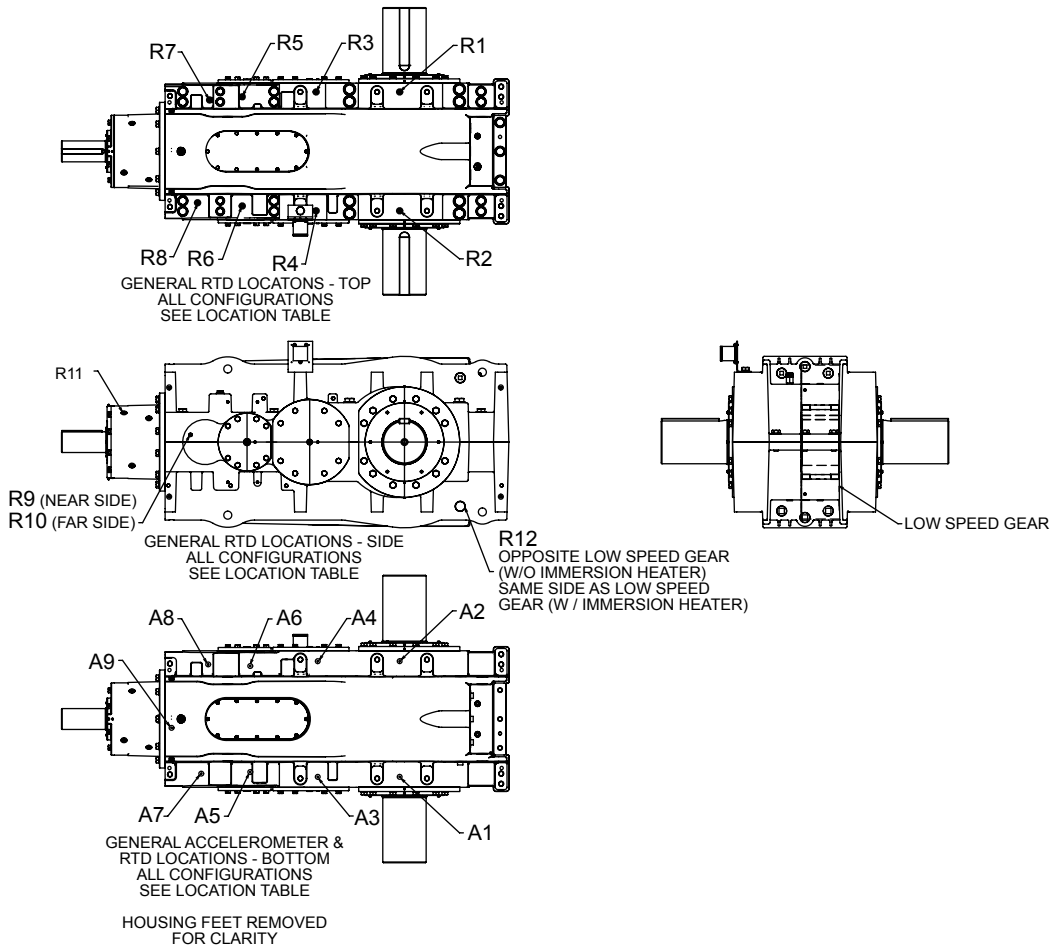


LOCATION TABLE

| Description | Item Number Location | Drive Size and Type | | | | | | | | | | | | | | | | | | | | |
|-----------------------|----------------------|---------------------|-----|-----|-----|--------------|---------------|-----|-----|-------------|------------|-----|--------------|-------------|-----|-----|--------------|-------------|-----|---------------|-------------|-----|
| | | 163, 165, 167 | | | | | 173, 175, 177 | | | | | 187 | | | | | | | | | | |
| | | VP1 | VP2 | VP3 | VR2 | VR3 | VP1 | VP2 | VP3 | VR2 | VR3 | VP1 | VP2 | VP3 | VR2 | VR3 | | | | | | |
| Nominal Ratios | | All | All | All | All | 14.0 71.0 | 80.0 125 | All | All | 28.0 100 | 112 140 | All | 12.5 63.0 | 71.0 112 | All | All | 31.5- 112 | 125- 160 | All | 14.0- 71.0 | 80.0 125 | |
| RTD | R1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| RTD | R2 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| RTD | R3 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| RTD | R4 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| RTD | R5 | ... | X | X | ... | X | X | ... | X | X | X | ... | X | X | ... | X | X | X | ... | X | X | X |
| RTD | R6 | ... | X | X | ... | X | X | ... | X | X | X | ... | X | X | ... | X | X | X | ... | X | X | X |
| RTD | R7 | ... | ... | ... | ... | X | X | ... | ... | ... | ... | ... | X | X | ... | ... | ... | ... | ... | X | X | X |
| RTD | R8 | ... | ... | ... | X | X | X | ... | ... | ... | ... | ... | X | X | X | ... | ... | ... | X | X | X | X |
| RTD | R9 | ... | ... | ... | X | ... | ... | ... | ... | ... | ... | X | ... | ... | ... | ... | ... | ... | X | ... | ... | ... |
| RTD | R10 | ... | ... | X | ... | ... | ... | ... | ... | X | X | ... | ... | ... | ... | ... | X | X | ... | ... | ... | ... |
| RTD | R11 | ... | ... | X | ... | ... | ... | ... | ... | X | X | ... | ... | ... | ... | ... | X | X | ... | ... | ... | ... |
| Sump RTD | R12 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Accelerometer | A1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Accelerometer | A2 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Accelerometer | A3 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Accelerometer | A4 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Accelerometer | A5 | ... | X | X | ... | X | X | ... | X | X | X | ... | X | X | ... | X | X | X | ... | X | X | X |
| Accelerometer | A6 | ... | X | X | ... | X | X | ... | X | X | X | ... | X | X | ... | X | X | X | ... | X | X | X |
| Accelerometer | A7 | ... | ... | ... | X | X | X | ... | ... | ... | ... | X | X | X | ... | ... | ... | ... | X | X | X | X |

Type VP & VR Sizes 193-227

Condition Monitoring Package/Dimensions — Millimeters



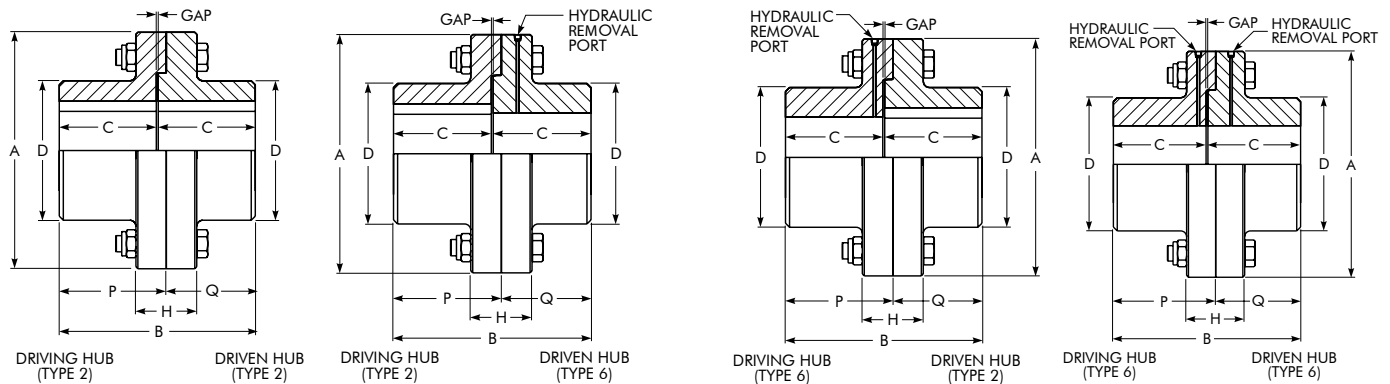
LOCATION TABLE

| Description | Item Number Location | Drive Size and Type | | | | | | | | | | | | | | | |
|-----------------------|----------------------|---------------------|-----|-----|-----|----------|-----|-----|-----|---------------|-----|-----|-----|---------------|-----|-----|-----|
| | | 193, 195, 197 | | | | 203, 207 | | | | 213, 215, 217 | | | | 223, 225, 227 | | | |
| | | VP1 | VP2 | VP3 | VR3 | VP1 | VP2 | VP3 | VR3 | VP1 | VP2 | VP3 | VR3 | VP1 | VP2 | VP3 | VR3 |
| Nominal Ratios | | All | All | All | All | All | All | All | All | All | All | All | All | All | All | All | All |
| RTD | R1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| RTD | R2 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| RTD | R3 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| RTD | R4 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| RTD | R5 | ... | X | X | X | ... | X | X | X | ... | X | X | X | ... | X | X | X |
| RTD | R6 | ... | X | X | X | ... | X | X | X | ... | X | X | X | ... | X | X | X |
| RTD | R7 | ... | ... | X | ... | ... | ... | X | ... | ... | ... | X | ... | ... | ... | X | ... |
| RTD | R8 | ... | ... | X | ... | ... | ... | X | ... | ... | ... | X | ... | ... | ... | X | ... |
| RTD | R9 | ... | ... | ... | X | ... | ... | ... | X | ... | ... | ... | X | ... | ... | ... | X |
| RTD | R10 | ... | ... | ... | X | ... | ... | ... | X | ... | ... | ... | X | ... | ... | ... | X |
| RTD | R11 | ... | ... | ... | X | ... | ... | ... | X | ... | ... | ... | X | ... | ... | ... | X |
| Sump RTD | R12 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Accelerometer | A1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Accelerometer | A2 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Accelerometer | A3 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Accelerometer | A4 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Accelerometer | A5 | ... | X | X | X | ... | X | X | X | ... | X | X | X | ... | X | X | X |
| Accelerometer | A6 | ... | X | X | X | ... | X | X | X | ... | X | X | X | ... | X | X | X |
| Accelerometer | A7 | ... | ... | X | ... | ... | ... | X | ... | ... | ... | X | ... | ... | ... | X | ... |
| Accelerometer | A8 | ... | ... | X | ... | ... | ... | X | ... | ... | ... | X | ... | ... | ... | X | ... |
| Accelerometer | A9 | ... | ... | ... | X | ... | ... | ... | X | ... | ... | ... | X | ... | ... | ... | X |

Type 2000 MCF Couplings

Flange Connection/Dimensions — Metric

WARNING: Drive system analysis must be performed by Rexnord Application Engineering. Driven shaft loads will be furnished to check shaft stresses and bearing loads. Improper installation and maintenance of this coupling may result in injury.



| DRIVE SIZE | Coupling Size † | Hub Type | | | | Minimum/Maximum Bore | | | | Cplg Wt kg ‡ | A | B | C | D | H | P | Q | Gap |
|-------------------|-----------------|-------------|----------------------------------|------------|----------------------------------|----------------------|--------------------------------------|------------|--------------------------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-----|
| | | Driving Hub | | Driven Hub | | Driving Hub | | Driven Hub | | | | | | | | | | |
| | | Type ★ | Hydraulic Removal Port Size BSPP | Type ★ | Hydraulic Removal Port Size BSPP | Bore | Fit | Bore Range | Fit | | | | | | | | | |
| 107 | 2130MCF | 2 | | 2 | | 110 | Keyed Keyed Keyless Keyless | 75-115 | Keyed Keyless Keyed Keyless | 59 | 317,5 | 231,6 | 114,3 | 177,8 | 63,5 | 122,2 | 109,5 | 3 |
| | | 2 | ..... | 6 | 0,125-28 | | | | | | | | | | | | | |
| | | 6 | 0,125-28 | 2 | ..... |  |  |  |  |  |  |  |  |  |  |  |  |  |
| | | 6 | 0,125-28 | 6 | 0,125-28 | | | | | | | | | | | | | |
| 117 | 2140MCF | 2 | | 2 | | 110 | Keyed Keyed Keyless Keyless | 100-125 | Keyed Keyless Keyed Keyless | 77 | 336,6 | 282,4 | 139,7 | 196,9 | 70,1 | 147,6 | 134,9 | 3 |
| | | 2 | ..... | 6 | 0,125-28 | | | | | | | | | | | | | |
| | | 6 | 0,125-28 | 2 | ..... |  |  |  |  |  |  |  |  |  |  |  |  |  |
| | | 6 | 0,125-28 | 6 | 0,125-28 | | | | | | | | | | | | | |
| 127 | 2150MCF | 2 | | 2 | | 120 | Keyed Keyed Keyless Keyless | 100-140 | Keyed Keyless Keyed Keyless | 112 | 371,3 | 307,8 | 152,4 | 218,9 | 95,5 | 168,1 | 139,7 | 3 |
| | | 2 | ..... | 6 | 0,125-28 | | | | | | | | | | | | | |
| | | 6 | 0,125-28 | 2 | ..... |  |  |  |  |  |  |  |  |  |  |  |  |  |
| | | 6 | 0,125-28 | 6 | 0,125-28 | | | | | | | | | | | | | |
| 133 137 | 2160MCF | 2 | | 2 | | 130 | Keyed Keyed Keyless Keyless | 115-165 | Keyed Keyless Keyed Keyless | 156 | 412,8 | 333,2 | 165,1 | 254,0 | 101,6 | 180,8 | 152,4 | 3 |
| | | 2 | ..... | 6 | 0,125-28 | | | | | | | | | | | | | |
| | | 6 | 0,125-28 | 2 | ..... |  |  |  |  |  |  |  |  |  |  |  |  |  |
| | | 6 | 0,125-28 | 6 | 0,125-28 | | | | | | | | | | | | | |
| 143 145 147 | 2170MCF | 2 | | 2 | | 140 | Keyed Keyed Keyless Keyless | 125-190 | Keyed Keyless Keyed Keyless | 225 | 457,2 | 378,0 | 187,5 | 295,1 | 101,6 | 203,2 | 174,8 | 3 |
| | | 2 | ..... | 6 | 0,250-19 | | | | | | | | | | | | | |
| | | 6 | 0,250-19 | 2 | ..... |  |  |  |  |  |  |  |  |  |  |  |  |  |
| | | 6 | 0,250-19 | 6 | 0,250-19 | | | | | | | | | | | | | |
| 153 155 157 | 2180MCF | 2 | | 2 | | 160 | Keyed Keyed Keyless Keyless | 130-205 | Keyed Keyless Keyed Keyless | 274 | 485,6 | 378,0 | 187,5 | 327,2 | 114,3 | 203,2 | 174,8 | 3 |
| | | 2 | ..... | 6 | 0,250-19 | | | | | | | | | | | | | |
| | | 6 | 0,250-19 | 2 | ..... |  |  |  |  |  |  |  |  |  |  |  |  |  |
| | | 6 | 0,250-19 | 6 | 0,250-19 | | | | | | | | | | | | | |

† Refer to Factory for all applications above 100 rpm. Dimensions are for reference only and are subject to change without notice unless certified.

‡ Coupling weights are for hubs with rough bores.

★ Type 2 hub is straight bored with keyed hub; Type 6 hub is straight bored KEYLESS hub with hydraulic removal.

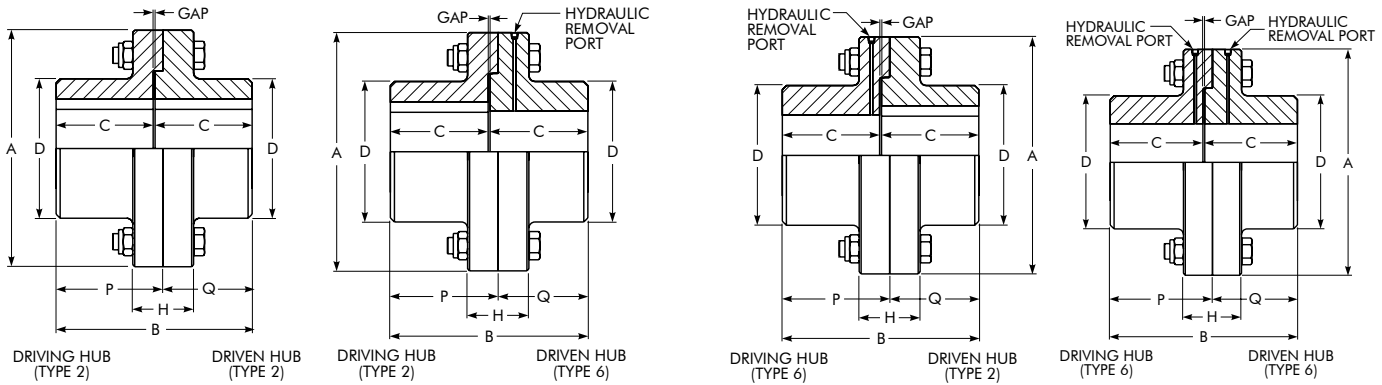
Type 2 and Type 6 hubs are interference fit. Driven shaft tolerance is expected to be: +0,000/-0,001 inches for inch shafts, or M6 for metric shafts.

Continued on next page.

Type 2000 MCF Couplings

Flange Connection/Dimensions — Metric

WARNING: Drive system analysis must be performed by Rexnord Application Engineering. Driven shaft loads will be furnished to check shaft stresses and bearing loads. Improper installation and maintenance of this coupling may result in injury.



| DRIVE SIZE | Coupling Size † | Hub Type | | | | Minimum/Maximum Bore | | | | Cplg Wt kg ‡ | A | B | C | D | H | P | Q | Gap |
|-------------------|-----------------|------------------|--|------------------|--|----------------------|--------------------------------------|------------|--------------------------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-----|
| | | Driving Hub | | Driven Hub | | Driving Hub | | Driven Hub | | | | | | | | | | |
| | | Type ★ | Hydraulic Removal Port Size BSPP | Type ★ | Hydraulic Removal Port Size BSPP | Bore | Fit | Bore Range | Fit | | | | | | | | | |
| 163 165 167 | 2190MCF | 2 2 6 6 | 0,250-19 0,250-19 | 2 6 2 6 | 0,250-19 0,250-19 | 180 | Keyed Keyed Keyless Keyless | 140-230 | Keyed Keyless Keyed Keyless | 364 | 536,4 | 447,5 | 222,3 | 352,6 | 120,9 | 238,0 | 209,6 | 3 |
| 173 175 177 | 2200MCF | 2 2 6 6 | 0,250-19 0,250-19 | 2 6 2 6 | 0,250-19 0,250-19 | 195 | Keyed Keyed Keyless Keyless | 165-240 | Keyed Keyless Keyed Keyless | 429 | 558,8 | 485,6 | 241,3 | 374,7 | 127,0 | 257,0 | 228,6 | 3 |
| 187 | 2210MCF | 2 2 6 6 | 0,250-19 0,250-19 | 2 6 2 6 | 0,250-19 0,250-19 | 195 | Keyed Keyed Keyless Keyless | 180-260 | Keyed Keyless Keyed Keyless | 547 | 596,9 | 542,5 | 269,7 | 393,7 | 152,4 | 285,5 | 257,0 | 3 |
| 193 195 197 | 2220MCF | 2 2 6 6 | 0,750-14 0,750-14 | 2 6 2 6 | 0,750-14 0,750-14 | 220 | Keyed Keyed Keyless Keyless | 215-305 | Keyed Keyed Keyless Keyless | 743 | 657,4 | 612,6 | 304,8 | 441,5 | 166,1 | 320,5 | 292,1 | 3 |
| 203 207 | 2230MCF | 2 2 6 6 | 0,750-14 0,750-14 | 2 6 2 6 | 0,750-14 0,750-14 | 220 | Keyed Keyed Keyless Keyless | 215-330 | Keyed Keyed Keyless Keyless | 1012 | 730,3 | 688,8 | 342,9 | 476,3 | 171,7 | 358,6 | 330,2 | 3 |
| 213 215 217 | 2240MCF | 2 2 6 6 | 0,750-14 0,750-14 | 2 6 2 6 | 0,750-14 0,750-14 | 250 | Keyed Keyed Keyless Keyless | 240-360 | Keyed Keyed Keyless Keyless | 1201 | 768,4 | 726,9 | 362,0 | 514,4 | 183,9 | 377,7 | 349,3 | 3 |
| 223 225 227 | 2250MCF | 2 2 6 6 | 0,750-14 0,750-14 | 2 6 2 6 | 0,750-14 0,750-14 | 250 | Keyed Keyed Keyless Keyless | 240-380 | Keyed Keyed Keyless Keyless | 1514 | 812,8 | 765,0 | 381,0 | 565,2 | 190,5 | 396,7 | 368,3 | 3 |

† Refer to Factory for all applications above 100 rpm. Dimensions are for reference only and are subject to change without notice unless certified.

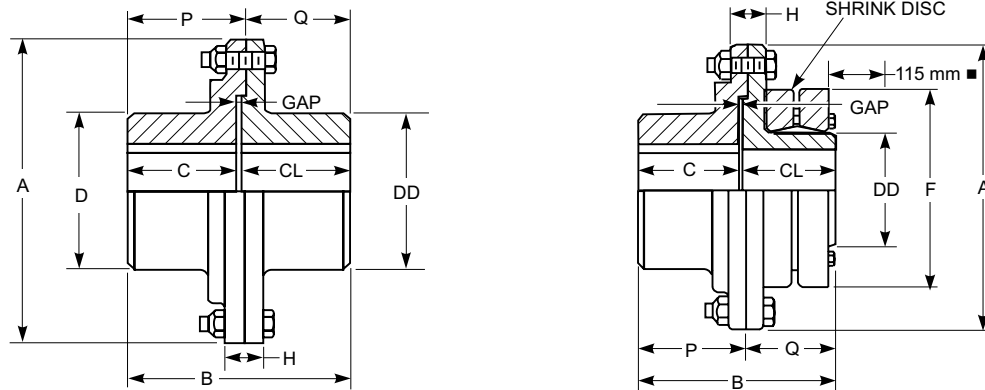
‡ Coupling weights are for hubs with rough bores.

★ Type 2 hub is straight bored with keyed hub; Type 6 hub is straight bored KEYLESS hub with hydraulic removal. Type 2 and Type 6 hubs are interference fit. Driven shaft tolerance is expected to be: +0,000/-0,001 inches for inch shafts, or M6 for metric shafts.

Type 1000 MCF Couplings

Flange Connection/Dimensions — Metric

WARNING: Drive system analysis must be performed by Rexnord Application Engineering. Driven shaft loads will be furnished to check shaft stresses and bearing loads. Improper installation and maintenance of this coupling may result in injury.



DRIVING HUB
(Type 2)

DRIVEN HUB
(Type 2)

DRIVING HUB
(Type 2)

DRIVEN HUB
WITH SHRINK DISC
(Type 4)

| Drive Size | Cplg Size ★ | Hub Type | | | | Min/Max Bore ‡ | | Cplg • Wt-lb | A | B | C | CL | D | DD | H | P | Q | Gap |
|--------------------------|-------------|-------------|-------|---------------|-------|----------------|---------------|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|
| | | Driving Hub | No. † | Driven Hub | No. † | Driving Hub | Driven Hub | | | | | | | | | | | |
| 133 137 | 1045MCF | RSB | 2 | RSB | 2 | 130 | 75-180 | 231 | 500 | 359 | 178 | 178 | 254 | 254 | 64 | 194 | 165 | 3 |
| | | RSB | 2 | 175SD | 4 | | 125-135 | 227 | 500 | 324 | 178 | 143 | 254 | 175 | 64 | 194 | 130 | 3 |
| | | RSB | 2 | 185SD | 4 | | 135-145 | 254 | 500 | 347 | 178 | 167 | 254 | 185 | 64 | 194 | 154 | 3 |
| | | RSB | 2 | 200SD | 4 | | 145-155 | 259 | 500 | 347 | 178 | 167 | 254 | 200 | 64 | 194 | 154 | 3 |
| 143 145 147 | 1045MCF | RSB | 2 | RSB | 2 | 140 | 75-180 | 231 | 500 | 359 | 178 | 178 | 254 | 254 | 64 | 194 | 165 | 3 |
| | | RSB | 2 | 175SD | 4 | | 125-135 | 227 | 500 | 324 | 178 | 143 | 254 | 175 | 64 | 194 | 130 | 3 |
| | | RSB | 2 | 185SD | 4 | | 135-145 | 254 | 500 | 347 | 178 | 167 | 254 | 185 | 64 | 194 | 154 | 3 |
| | | RSB | 2 | 200SD | 4 | | 145-155 | 259 | 500 | 347 | 178 | 167 | 254 | 200 | 64 | 194 | 154 | 3 |
| 153 155 157 | 1055MCF | RSB | 2 | RSB | 2 | 160 | 90-205 | 327 | 555 | 409 | 203 | 203 | 292 | 292 | 64 | 205 | 191 | 3 |
| | | RSB | 2 | 200SD | 4 | | 145-155 | 322 | 555 | 373 | 203 | 167 | 292 | 200 | 64 | 205 | 154 | 3 |
| | | RSB | 2 | 220SD | 4 | | 160-170 | 349 | 555 | 395 | 203 | 189 | 292 | 220 | 64 | 205 | 176 | 3 |
| | | RSB | 2 | 240SD | 4 | | 170-190 | 381 | 555 | 409 | 203 | 203 | 292 | 240 | 64 | 205 | 191 | 3 |
| 163 165 167 | 1060MCF | RSB | 2 | RSB | 2 | 180 | 100-230 | 449 | 591 | 460 | 229 | 229 | 330 | 330 | 76 | 238 | 216 | 3 |
| | | RSB | 2 | 220SD | 4 | | 160-170 | 435 | 591 | 427 | 229 | 195 | 330 | 220 | 76 | 238 | 183 | 3 |
| | | RSB | 2 | 240SD | 4 | | 170-190 | 472 | 591 | 440 | 229 | 208 | 330 | 240 | 76 | 238 | 195 | 3 |
| | | RSB | 2 | 260SD | 4 | | 190-210 | 503 | 591 | 460 | 229 | 229 | 330 | 260 | 76 | 238 | 216 | 3 |
| 173 175 177 187 | 1065MCF | RSB | 2 | RSB | 2 | 195 | 125-255 | 572 | 622 | 511 | 254 | 254 | 356 | 356 | 89 | 270 | 241 | 3 |
| | | RSB | 2 | 240SD | 4 | | 170-190 | 558 | 622 | 471 | 254 | 214 | 356 | 240 | 89 | 270 | 202 | 3 |
| | | RSB | 2 | 260SD | 4 | | 190-210 | 590 | 622 | 487 | 254 | 230 | 356 | 260 | 89 | 270 | 217 | 3 |
| | | RSB | 2 | 280SD | 4 | | 210-230 | 640 | 622 | 499 | 254 | 242 | 356 | 280 | 89 | 270 | 229 | 3 |
| RSB | 2 | 300SD | 4 | 230-245 | 662 | 622 | 503 | 254 | 246 | 356 | 300 | 89 | 270 | 233 | 3 | | | |
| 193 195 197 | 1075MCF | RSB | 2 | RSB | 2 | 230 | 152.40-292.10 | 817 | 698.50 | 587.25 | 292.10 | 292.10 | 406.40 | 406.40 | 101.60 | 307.85 | 279.40 | 3.05 |
| | | RSB | 2 | 280SD | 4 | | 210.01-230.00 | 791 | 698.50 | 543.81 | 292.10 | 248.41 | 406.40 | 280.01 | 101.60 | 307.85 | 235.71 | 3.05 |
| | | RSB | 2 | 300SD | 4 | | 230.00-245.01 | 815 | 698.50 | 547.62 | 292.10 | 252.48 | 406.40 | 300.00 | 101.60 | 307.85 | 239.78 | 3.05 |
| | | RSB | 2 | 320SD | 4 | | 240.00-259.99 | 859 | 698.50 | 555.50 | 292.10 | 260.35 | 406.40 | 319.99 | 101.60 | 307.85 | 247.65 | 3.05 |
| 203 207 | 1080MCF | RSB | 2 | RSB | 2 | 230 | 190.50-317.50 | 938 | 762.00 | 638.05 | 317.50 | 317.50 | 444.50 | 444.50 | 127.00 | 333.25 | 304.80 | 3.05 |
| | | RSB | 2 | 300SD | 4 | | 230.00-245.01 | 953 | 762.00 | 585.72 | 317.50 | 265.18 | 444.50 | 300.00 | 127.00 | 333.25 | 252.48 | 3.05 |
| | | RSB | 2 | 320SD | 4 | | 240.00-260.35 | 986 | 762.00 | 593.60 | 317.50 | 273.05 | 444.50 | 319.99 | 127.00 | 333.25 | 260.35 | 3.05 |
| | | RSB | 2 | 340SD | 4 | | 250.01-270.00 | 1063 | 762.00 | 612.65 | 317.50 | 292.10 | 444.50 | 340.00 | 127.00 | 333.25 | 279.40 | 3.05 |
| 213 215 217 | 1090MCF | RSB | 2 | RSB | 2 | 270 | 215.90-355.60 | 1797 | 889.00 | 714.25 | 355.60 | 355.60 | 558.80 | 558.80 | 139.70 | 371.60 | 342.90 | 3.05 |
| | | RSB | 2 | 340SD | 4 | | 250.01-270.00 | 1666 | 889.00 | 657.35 | 355.60 | 298.45 | 558.80 | 340.00 | 139.70 | 371.60 | 285.75 | 3.05 |
| | | RSB | 2 | 360SD | 4 | | 270.00-295.00 | 1697 | 889.00 | 660.91 | 355.60 | 302.01 | 558.80 | 359.99 | 139.70 | 371.60 | 289.31 | 3.05 |
| | | RSB | 2 | 380SD | 4 | | 289.99-310.01 | 1787 | 889.00 | 660.91 | 355.60 | 302.01 | 558.80 | 380.01 | 139.70 | 371.60 | 289.31 | 3.05 |
| RSB | 2 | 400SD | 4 | 310.01-330.20 | 1867 | 889.00 | 668.78 | 355.60 | 310.13 | 558.80 | 400.00 | 139.70 | 371.60 | 297.43 | 3.05 | | | |
| 223 225 227 | 1095MCF | RSB | 2 | RSB | 2 | 270 | 228.60-381.00 | 2092 | 965.20 | 765.05 | 381.00 | 381.00 | 609.60 | 609.60 | 152.40 | 396.75 | 368.30 | 3.05 |
| | | RSB | 2 | 360SD | 4 | | 270.00-295.00 | 1860 | 965.20 | 695.20 | 381.00 | 308.36 | 609.60 | 359.99 | 152.40 | 396.75 | 295.66 | 3.05 |
| | | RSB | 2 | 380SD | 4 | | 289.99-310.01 | 1950 | 965.20 | 692.40 | 381.00 | 308.36 | 609.60 | 380.01 | 152.40 | 396.75 | 295.66 | 3.05 |
| | | RSB | 2 | 400SD | 4 | | 310.01-330.20 | 2027 | 965.20 | 700.53 | 381.00 | 316.48 | 609.60 | 400.00 | 152.40 | 396.75 | 303.78 | 3.05 |
| RSB | 2 | 420SD | 4 | 330.00-349.25 | 2111 | 965.20 | 726.44 | 381.00 | 342.39 | 609.60 | 419.99 | 152.40 | 396.75 | 329.69 | 3.05 | | | |

★ Refer to the Factory all applications above 100 rpm. Dimensions are for reference only and are subject to change without notice unless certified.

■ Distance required for torque wrench clearance to tighten the shrink disc fasteners. Consult Factory for alternatives if axial space is not available.

‡ Driven shaft tolerance is expected to be: +0,000/-0,001 inches for inch shafts, or M6 for metric shafts.

● Coupling weights are for hubs with no bore and include shrink disc(s).

† Number 2 hub is straight bored without shrink disc; Number 4 hub is straight bored with shrink disc.

■ Refer to factory when selecting these MCF hubs with shrink disc.



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