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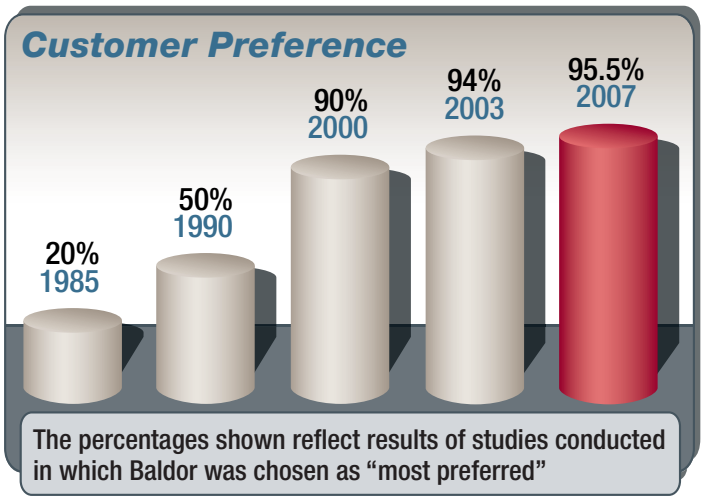



Duty Master®
Above NEMA Frame
AC Induction Motors

BALDOR

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Why Baldor?



For nearly 100 years, Baldor has strived to provide customers with the best value and reliability in industrial electric motors. That kind of dedication results in satisfied customers and a strong preference for Baldor•Reliance motors, as the chart above shows. Here are just a few of the things Baldor does to earn such recognition:

Baldor offers the industry's broadest line of stock products. Save valuable time with just one call to Baldor. We offer more than 10,000 stock motors, drives and gearboxes.

Energy-efficiency leader. Baldor began lowering the energy consumption of our motors in the 1920's, long before others were even talking about it. Today, Baldor's expansive line of Premium Efficiency motors extends from 1 through 15,000 Hp. Baldor's motors offer customers the highest overall efficiency levels in the industry, including Baldor•Reliance Super-E® (1 through 500 Hp) motors that exceed NEMA Premium® efficiencies.



Baldor products are available at more locations than any other brand. Our 35 district offices across North America and offices around the world, offer immediate availability of Baldor products and support to thousands of customers.

Continuous innovation to improve reliability. Baldor leads the motor industry in applying new technologies to improve motor reliability. Recent improvements to the line of Severe Duty motors are further proof that Baldor is the leader in motors for process industry applications. These improvements are explained in detail in the following pages.



Industry's shortest lead times/Flexible manufacturing. Baldor has the industry's shortest lead times on custom Above NEMA Motors. Our unique LEAN FLEX FLOW™ manufacturing process lets us produce any order in any quantity, quickly and efficiently.

Industry's best access to information. Only Baldor offers customers so many choices for product information with a wide variety of catalogs and product brochures, the Baldor Web site at www.baldor.com, or you may talk to a Baldor customer service person at one of our sales offices.

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Baldor•Reliance Duty Master® Motors... value customers expect!

Baldor•Reliance Duty Master motors provide industry leading value largely because of their 100+ year heritage of exceeding customer expectations. This includes providing Above NEMA Motors to customers for more than 50 years and in doing so, gaining a deep understanding of a broad range of industries and critical applications. The Baldor•Reliance product legacy extends from a wide range of general purpose motors to motors designed for the most hazardous and critical application extremes. In addition to Baldor's being the most preferred supplier of industrial motors in North America, Baldor•Reliance is also the most specified motor in the Petrochemical industry and is the first motor to be certified under the API 547 monogram program.

Nobody knows more about their process than the customer. That is why Baldor employs dedicated Industry teams whose sole purpose is working directly with Industry users, consultants and OEMs. These experienced Baldor engineers are dedicated to understanding the customer's specific performance requirements and translating this into solutions and products that exceed customer expectations.

Dependability is built into every Baldor•Reliance Duty Master motor:

A passion for reliability continues to drive Baldor's design process. The Baldor•Reliance reputation for robust motor construction is built into design features that include:

- Aluminum rotor die casting machines designed to eliminate casting porosity for superior rotor bar and end ring integrity
- A free floating squirrel cage for copper bar rotors that will not fail from expansion and contraction
- The Baldor•Reliance flagship Enduraseal insulation system, where every winding is given an immersion test per NEMA MG1, Part 20.18.1
- Mechanically, Baldor provides a superior patented PLS bearing lubrication system that positively lubricates when the motor is in any position and has multiple grease relief locations preventing over-greasing which leads to a majority of antifriction bearing failures.



Baldor's new generation of open motors have become an industry leader in weather protected motor designs.

Performance every time:

Because interaction with the power grid is uniquely important when applying Above NEMA Motors, Baldor's advanced development center has conceived designs that reduce inrush current and locked rotor KVA while assuring high power factor. For larger motors and more critical applications, it becomes even more important to understand the load and power grid with each new motor design. Here Baldor engineers develop standard catalog and custom motor designs that consider load inertia, load curves, starting frequency and starting method. The outcome is a Baldor•Reliance motor with performance that will match the customer's specific needs and provide years of dependable service in the most unique critical service applications.

High Efficiency for low cost of operation:

While designing for performance, Baldor knows that electricity consumption represents the primary ownership cost of an electric motor. Baldor takes great pride in standard designs that typically exceed industry norms for custom designed high efficiency motors. This did not just happen. Baldor's high efficiency designs are the result of engineering excellence, years of field experience, R&D testing and acclaimed dedication to leadership in energy efficiency.

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Baldor Duty Master® Motors: Built for Reliable Performance

Optional fabricated conduit box found on custom built Above NEMA Motors.

Note: The standard stock motor conduit box is cast iron.

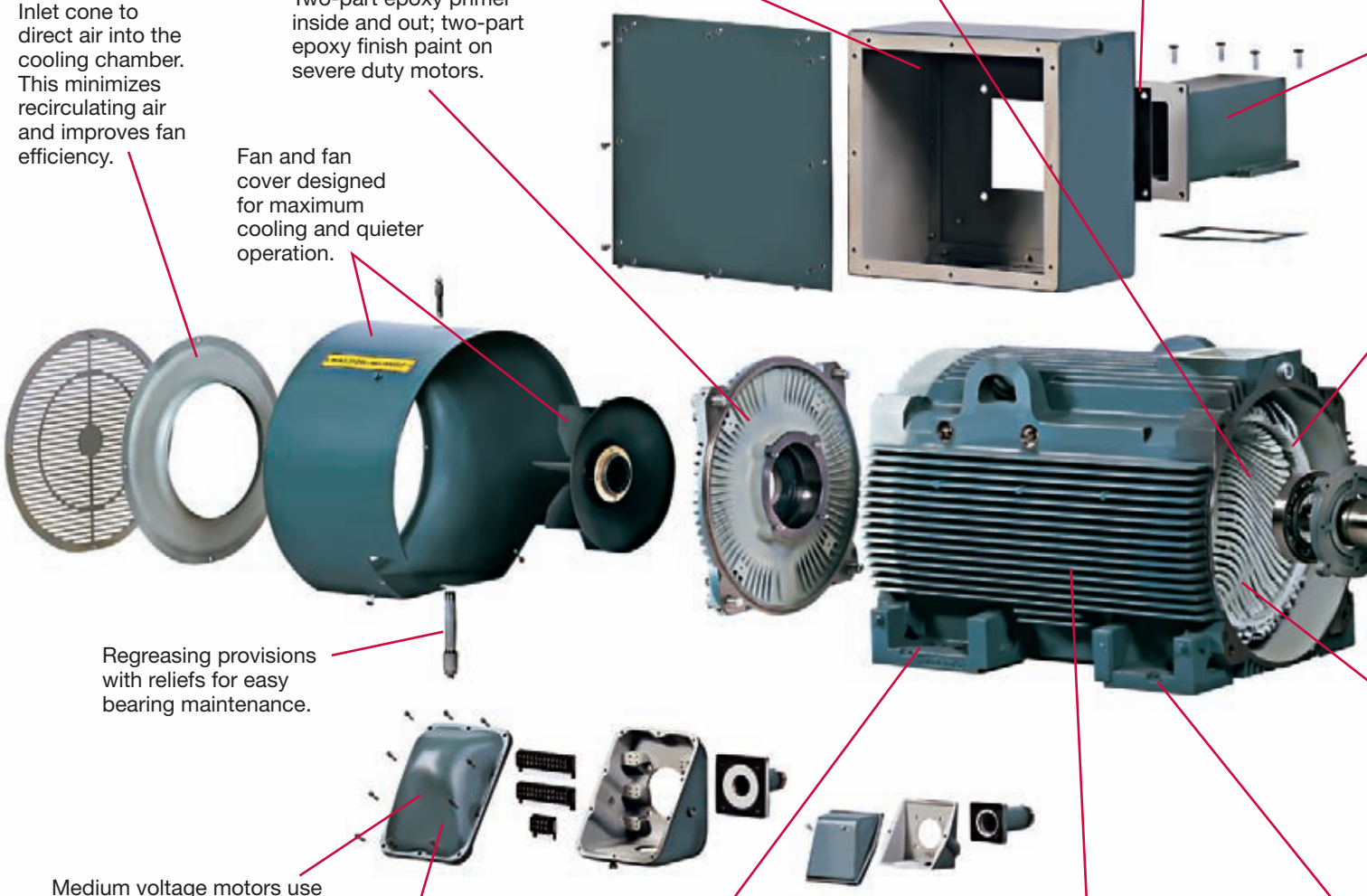
Class F (or better) insulation system allows windings to withstand higher temperatures resulting in longer life. Medium voltage motors feature formed copper coils with glass mica-wrapped magnet wire, further insulated with Nomex® tape.

Lead separator/ gasket between frame and conduit box keeps contaminants from entering the motor, and makes lead connection easier.

Inlet cone to direct air into the cooling chamber. This minimizes recirculating air and improves fan efficiency.

Two-part epoxy primer inside and out; two-part epoxy finish paint on severe duty motors.

Fan and fan cover designed for maximum cooling and quieter operation.



Regreasing provisions with reliefs for easy bearing maintenance.

Medium voltage motors use auxiliary conduit boxes for winding RTD's and space heaters.

Dual mounting foot holes, especially convenient when mounting a motor for replacement duty.

Rugged cast iron frames, endplates and conduit boxes for greater strength and stiffness, resulting in lower vibration and longer life.

Diagonally split cast iron conduit boxes are typically used for Severe Duty applications. This box exceeds NEC standards, making connections easier.

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The G5000 Frame Motor shown here in exploded view, is an example of Baldor's commitment to designs that yield exemplary performance and reliability.

Cantilevered Arm to allow F1 to F2 or F3 conversions with just four bolts.

Standard surge ropes on end turns. Baldor adds a second surge rope for 2-pole motors and select longer end coils.

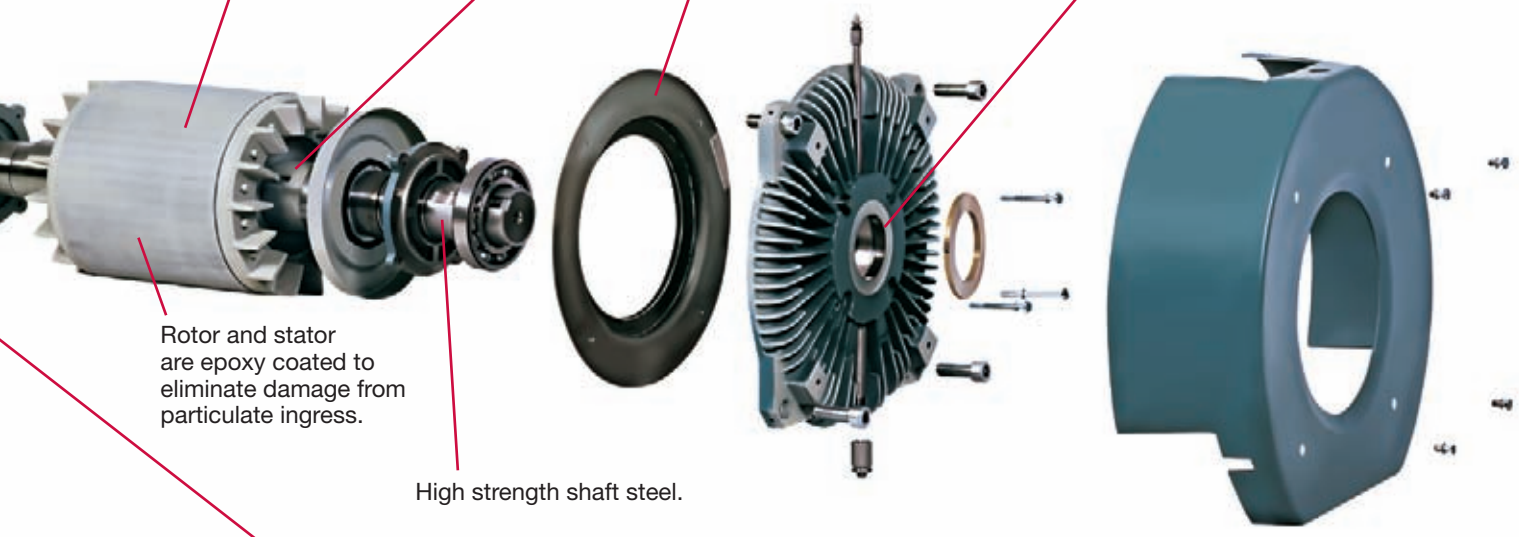
Stators and rotors utilize premium core plate providing low core losses.

High-pressure die cast aluminum rotor for increased efficiency. Rotors are precision balanced for smooth operation and longer bearing life. Cast aluminum rotors also have vent holes that are strategically located to remove air bubbles and ensure that every rotor has no voids that might compromise motor performance.

Note: Optional fabricated copper bar rotors are available.

Drive end thermal barrier system to keep bearing temperature low.

Locked bearing construction reduces endplay. Convertible to roller bearing for belted loads (4 and 6 pole only).



Rotor and stator are epoxy coated to eliminate damage from particulate ingress.

High strength shaft steel.

Standard vacuum pressure impregnation (VPI) using 100% epoxy solids for long life and greater protection. Superior lamination materials and manufacturing processes maintain dielectric strength after burnout. This means better performance and lower losses even after rewind.

Baldor also adds blocking in front and back of every end turn. This forms an arch that adds rigidity to minimize end turn deflection.

Spot faced mounting holes. Feet drilled for jackscrews and dowel pins.

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Big Motors can mean Big Savings by understanding how to make Energy Efficiency work for you

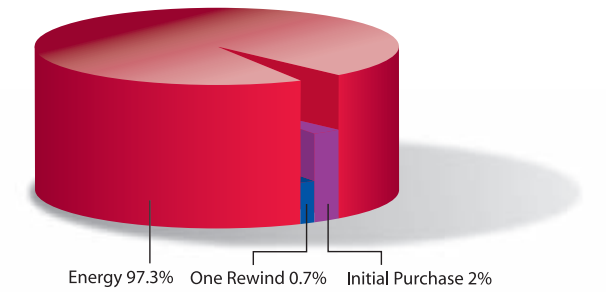
Why all the talk about Motors and Energy Efficiency?

Electric motor-driven systems used in industrial processes consume about 63% of all electricity used in the U.S. industrial sector according to a U.S. Department of Energy report. In a later report the D.O.E. also said that "best practices" have shown an average energy savings of 33% when these practices include motor and motor systems upgrades, including the use of adjustable speed drives.

Thinking beyond the Initial Purchase Price

The D.O.E. has shown the average motor will operate for 28 years. So just as you would with any long term investment, it is important to expand your focus from the initial purchase price to the life cycle cost of that investment.

The pie chart to the right shows elements of the typical life cycle cost of a motor operating in a continuous duty mode for 20 years. As you can see the original purchase price is almost insignificant compared to what it will cost to operate the motor over that motors life span.



Understanding your Total Investment

To begin understanding your total investment you need to know the cost of energy consumed during the anticipated life of the motor. The chart below is an example of how these costs are determined and the positive impact of selecting Premium Efficiency motors whenever buying decisions are made.

The formula typically used to calculate energy consumption is:

Total Energy Cost = Input kW power to the Motor x Hours of Operation x Cost of Power

For this example we will assume:

- You are replacing an existing 1000 Hp motor
- The motor operates continuously 50 weeks/year
- The existing motor efficiency is 93.7%
- The replacement motor efficiency is 95.0%
- Energy cost is $0.075/KW hr

Using this formula, savings associated with buying a Premium Efficiency motor will be:

$7,158 each year
$143,160 after 20 years

Depending on normal market variables such as features and other options, the 1000 HP motor used in this example would sell for about 10% of its annual energy costs. So when you compare the original purchase price to the cost of energy required to operate the motor, it is easy to understand why careful motor selection from the start is so important. And when you do select a premium efficiency motor you will consume less energy, reduce operating costs and improve your bottom line over the operating life of that motor.

Whether you are buying motors as part of a new capital project or if you are just thinking of replacing an existing motor as in the example above, making the best choice of available options can be intimidating. To help with these decisions, Baldor has developed an innovative software tool ("BE$T") that will help you maximize motor efficiency and minimize electricity use. For more information about the BE$T program you are invited to contact your local Baldor office or look us up on www.baldor.com.

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Above NEMA Motors...In Stock!

Baldor stocks a family of Premium Efficient Duty Master® Motors specifically designed for a variety of applications in a wide spectrum of industries. This family of Medium Voltage 2, 4, and 6 Pole TEFC motors extends from 250 Hp through 1250 Hp. Baldor•Reliance motors for stock are a minimum 95% efficient including many ratings that exceed 96%. All these motors built for stock are Class B rise at 1.0 Service Factor and are well suited to drive routine pump, fan and compressor loads as well as driving more critical service loads and operating in severe duty environments. Standard features include minimum 95% efficiency, Class B Rise at 1.0 Service Factor, Ultra-Precision balance to 0.10 inches/second, winding RTD's, CSA and Div 2 Class I Groups C & D Hazardous Location certifications.

Now customers in need of same day deliveries for General Purpose and Special Purpose applications have access to a wide range of Above NEMA Motors that are stocked in Baldor's District Offices and Fort Smith Distribution Center.

Shown below is a summary of Baldor's Above NEMA Motors in Stock:

Hp	Poles	Enclosure	Bearing Type	Frame	Catalog #
250	2	TEFC	Ball	G5008S	ECP50252S-2340
	4	TEFC	Ball	G5008L	ECP50254L-2340
		TEFC	Ball	G5008S	ECP50254S-2340
	6	TEFC	Roller	G5010LY	ECP50256LR-2340
300	2	TEFC	Ball	G5008S	ECP50302S-2340
	4	TEFC	Ball	G5008L	ECP50304L-3240
		TEFC	Ball	G5008S	ECP50304S-2340
	6	TEFC	Roller	G5010LY	ECP50306LR-2340

Note: For inverter applications, contact your local Baldor sales office.

Hp	Poles	Enclosure	Bearing Type	Frame	Catalog #
400	2	TEFC	Ball	G5010S	ECP50402S-2340
	4	TEFC	Ball	G5008L	ECP50404L-2340
		TEFC	Ball	G5008S	ECP50404S-2340
	6	TEFC	Roller	G5012LY	ECP50406LR-2340
500	2	TEFC	Ball	G5010S	ECP50502S-2340
	4	TEFC	Ball	G5010L	ECP50504L-2340
		TEFC	Ball	G5010S	ECP50504S-2340
	6	TEFC	Roller	G5012LY	ECP50506LR-2340
600	2	TEFC	Ball	G5010S *	ECP50602S-2340
	4	TEFC	Ball	G5012S	ECP50604S-2340
1250	2	WPII	Sleeve	O5810S	EM251252-2340
	4	WPII	Ball	O5810S	EM251254S-2340

* This rating is precision balanced to 0.12 in/sec velocity.



This Baldor•Reliance Duty Master® motor powers fans for a "bio-scrubber" air filtering system. This unique system is part of a fiber board mill located in Columbia Falls, Montana where filter beds use bacteria to remove impurities and reduce emissions.

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Baldor•Reliance Duty Master® Motors
Electrical Design Characteristics

Specification	Standard Design	Typical Modifications
Voltage, Frequency	460, 480, 575, 690, 2300, 4000, 6600, 13,200 volts @ 60 Hz 380, 415, 690, 3000, 3300, 6000, 11,000 volts @ 50 Hz	Non-standard low, medium and high voltages
Service Factor	1.0 SF @ 80 degrees C by resistance	1.15 and higher service factors
Ratings	NEMA design B (torque type)	NEMA design C & D (torque type), low inrush
Ambient Temperature	40 degrees C	Higher or lower temperatures
Windings	>1000V…Form wound copper, Class F 155° C, mica Nomex® tape, 100% solvent less epoxy impregnated ≤1000V…Random wound copper coils with dip & bake	Sealed (EnduraSeal) windings with two VPI cycles and immersion tested per NEMA MG1, Part 20, additional VPI cycles (3 max), surge withstand
Winding Insulation Class	Class F , non-hydroscopic epoxy resins	Class H high temperature
End Turn Bracing (medium & high voltage)	Layered tape, rope(s) or steel bracing ring (each of which is lashed to every coil)	Additional rope or steel bracing for high vibration applications
Stator Component System	Nomex® Class H slot liner, woven glass Class H phase insulation, epoxy impregnated blocking felt between coils	Complete winding system Surge Withstand Capability (standard for Inverter Duty applications)
Lead System	Vulcanized ethylene propylene or silicon (oil resistant, class H) lead material, ring type lead lugs	Oil resistant silicon material, compression lead lugs, quick disconnects
Thermal Protection	Winding RTD's with auxiliary conduit box, 100 ohm, 3 wire platinum (only standard on Catalog Stock Motors - not standard on custom motors)	Other RTD types, thermocouples, thermostats, NEMA 4X auxiliary conduit box
Testing	Balance, winding resistance, no-load amps, power & nominal speed, locked rotor amps & torque, vibration, hi-pot	Complete with dynamometer, API 541, noise, efficiency per IEEE 112 methods, motor/inverter, bearing housing natural frequency
Third Party Approvals	CSA recognized components (standard on Catalog Stock Motors – optional on custom motors)	Hazardous locations (UL, CSA, NEC, CEC, IEC, ATEX)

Note: For more information about available modifications, contact your local Baldor office.

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Baldor•Reliance Duty Master® Motors
Mechanical Design Characteristics

Specification	Standard Design	Typical Modifications
Frame Dimensions	NEMA compliant	IEC compliant (per applicable sections of IEC 60034 & 60072, TEFC frames Only)
Foot Mounting Holes	Multiple holes on specified frames	Special spot facing, dowel pins, jack screws
Nameplate	Stainless steel plate and rivets, NEMA compliant	Special markings, non English, CSA, third party labels, auxiliary plates for motor characteristics and customer data
Slinger & Seals	Labyrinth seals, Forsheda® style or brass slingers on WPI, WPII and TEFC when specified with severe duty and other critical service applications	Inpro/Seal® (rated for IP 54, 55, 56) and Taconite seals
Hardware	Grade 5, U.S. Standard, zinc dichromate or cadmium plated steel	AISI Series 300 Stainless Steel
Grounding	Ground lug (silicon-bronze, stud type) in conduit box is standard for severe duty motors, frame ground pad	Conduit box and frame (except for explosion proof motors) grounding pad, servit post, ground lugs, bearing grounding, shaft grounding
External Cooling Fan	Non sparking polyurethane	Steel, bronze, aluminum and arctic duty available on some TEFC and TEAAC designs,
Internal Cooling Fan	Integrally designed with cast aluminum rotors, shaft mounted steel on fabricated rotors (some exceptions on larger frames)	Bronze, aluminum and arctic duty available on ODP, WPII, TEAAC and TEWAC enclosures
Balance	Exceeds NEMA MG1 (4 pole @ 0.15 in/sec bracket velocity & 2.8 mils shaft displacement)	Precision Balance...4 pole @ 0.10 in/sec & 2.0 mils Ultra-Precision Balance...4 pole @ 0.10 in/sec & 1.5 mils
Shaft	Cold rolled steel	Forged steel, special length and diameter, tapered or threaded, double extension, magnetic center indicator
Paint	Surface preparation (SSPC-SP-6), primer (SSPC-SP-1), top coat (Alkyd Enamel)	Standard Plus (includes solvent based epoxy top coat), APEX (includes epoxy intermediate coat and 2-part polyurethane top coat)
Bearings	Anti friction (grease lubricated), sleeve (oil ring or flood lubricated)	Drive end roller, electrically isolated bearings, bearing temperature RTD's, sleeve bearings can be substituted where anti friction bearings are standard (except 440 frames)
Noise	Varies with design, complies with NEMA MG1	Low noise options on both enclosed and open frames

Note: For more information about available modifications, contact your local Baldor office.

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API 547 and API 541 for Above NEMA Motors

API 547

Users in the Petroleum and Chemical industries sometimes prefer general purpose motors that are easy to specify and still have base features that ensure safe and reliable operation in critical service applications. In response to this need the American Petroleum Institute developed the API 547 standards for form wound induction motors used for general purpose petroleum, chemical, and other industrial severe duty applications.

API 547 compliant motors are:

- Rated 250 Hp – 3000 Hp with TEFC and WP II enclosures for 4, 6 and 8-pole machines
- 250 Hp to 800 Hp for 2-pole TEFC machines
- 250 Hp to 1250 Hp for 2-pole WP II machines
- Engineered in accordance with American Petroleum Institute standards
- Ideally suited for many centrifugal pump, fan and compressor applications having inertia values within those listed in NEMA MG1, Part 20

API 547 motors are specified with standard selections for all requisite motor features and accessories, so purchaser data sheets are not required in the standards. When the purchaser does require data sheets only the following minimum data is typically requested:

- Hp
- Enclosure – TEFC or WP II
- RPM
- Voltage/Frequency
- Area classification if applicable

As mentioned earlier, the Baldor•Reliance API 547 motor is the first motor of any kind to receive the API Monogram. As an API licensee Baldor has once again demonstrated a legacy of employing state of the art quality systems that enable Baldor to provide general purpose motors that are not only safe, but motors that stand up to the most rigorous of critical service applications. In order to gain the API Monogram recognition, Baldor has demonstrated and documented an infrastructure, responsibilities, control processes and resources needed to establish and maintain this quality tradition.

Designs are available for 2-pole and 4-pole ratings noted here:

3600 RPM – 60 Hz			1800 RPM – 60 Hz		
Hp	**TEFC Frame**	**WPII Frame**	**Hp**	**TEFC Frame**	**WPII Frame**
250	G5008	E5010	250	G5008	E5006
300	G5008	E5010	300	G5008	E5006
350	G5008	E5010	350	G5008	E5006
400	G5010	E5808	400	G5010	E5008
450	G5010	E5808	450	G5010	E5008
500	G5010	E5808	500	G5010	E5010
600	G5012/G400J*	E5808	600	G5012	E5010
700	G5012/G400J*	E5808	700	G5012	E5012
800	G5012/G400J	E5810	800	G5012	E5012
900	—	E5810	900	G5012	E5808
1000	—	E5810	1000	G500M	E5810
1250	—	E5810	1250	G500M	E5810
1500	—	—	1500	G500M	E5812
1750	—	—	1750	G500M	E5812
2000	—	—	2000	G500M	E7111
2250	—	—	2250	G500M	E7111
2500	—	—	2500	Custom	E7111
2750	—	—	2750	Custom	E7111
3000	—	—	3000	Custom	E7111

* May require Flood Lube ** TEAAC Enclosure

Contact a Baldor office for latest capabilities.

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API 541 (4th Edition)

When users in the Petroleum and Chemical industries want special purpose motors with uniquely defined features and accessories they turn to the API 541 standards. These standards apply to form wound induction motors rated 500 Hp and larger and used in critical service applications found in severe and abnormally hostile environments.

Unlike the counterpart API 547 standards, the API 541 standards do require comprehensive data sheets from the purchaser in order to delineate the users specific needs. Given the very critical nature of these applications, in addition to the basic data required for API 547 motors the API 541 data sheets cover an extensive range of application, enclosure, load, testing and accessory features. It's worth noting that API 541 data sheets include detailed purchaser specifications and supplier data that either the purchaser or supplier can use.

Baldor engineers participated in both the API 541 and API 547 working group committees and today Baldor•Reliance Duty Master® motors are the preferred choice of users in the Petro Chemical industry.

In an effort to bring more consistency and reliability to Petrochemical applications, in September of 2003 the API 541 authors made some notable changes to the standards. Today the API 541 fourth edition includes the following:

- Applies to larger motors 500 Hp and above, to avoid conflict with IEEE 841 standards
- Concentrates on special purpose "custom" motors and critical service applications
- Addresses applications with variable frequency drives such as requiring the motor to operate below 80 degrees C temperature rise at any speed when driving a variable torque load
- Includes expanded appendices that provide in-depth discussion of complicated issues
- Provides expanded use of Mechanical and Electrical Standard paragraphs
- Establishes a sound pressure limit that is compliant with OSHA requirements
- Requires motors to be operated at 1.0 service factor forcing the selection of higher ratings when overload capability is required
- Tightens design parameters that define resonant frequency limits
- Relies heavily on data sheets to document complete application details that will ensure the motor and drive (where applicable) are designed and built in a manner that will yield the intended performance

API standards were developed by Petroleum and Chemical users. However, in recognizing the importance of the design itself and the credibility of the Standards, many non-API industry users have applied API 541 and API 547 Standards to their own applications in order to achieve process integrity. This has proven to be especially true when larger AC motors are coping with unique load conditions found in reciprocating compressors, vertical turbine pumps, induction generators, axial thrust loads and variable frequency drives.

To help the reader differentiate between API 547 and API 541 motors, the following charts are provided:

Scope	API 547	API 541
Power	250 Hp - 3000 Hp	500 Hp and larger
Voltage	Any through 13.2 kV 50 & 60 Hz	Any through 13.2 kV 50 & 60 Hz
Speed	2 pole thru 8 pole	Any speed and no. of poles, or AFD controls
Site	Severe Duty applications	Severe and abnormally hostile environments
Enclosures	TEFC and WPII	Any enclosure
Bearings	Hydrodynamic (sleeve) bearings default	Hydrodynamic (sleeve) bearings default
Applications	General Purpose for centrifugal loads	Critical Service for any load condition
Mounting	Horizontal	Horizontal and Vertical
Rotor	Aluminum thru 1000 Hp, Fabricated Copper above 1000 Hp	Fabricated Copper default, Aluminum only on approval
Shaft	*Forged shafts required on:* Two pole motors Flexible shaft motors	*Forged shafts required on:* Shafts larger than 8" Two pole motors > 1000 Hp Flexible shaft motors Motors driving reciprocating loads Motors using tapered hydraulic fit couplings
Critical Speed	Does not differentiate between a well damped resonance and lateral critical speed	Allows for a well damped resonance within the 15% separation margin

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Baldor Above NEMA Motor Capabilities Overview

The reach of Baldor's Above NEMA Motor product offering is vast. It extends well beyond NEMA frames to ratings as high as 15,000 Hp and as low as 300 RPM. This includes an extensive range of proven cast iron and fabricated steel motors well suited for both General Purpose the Custom (critical service) applications.

Note the following charts which apply to motors meeting these NEMA standards:

- 650% Inrush current
- Equal or greater than NEMA, Part 20 design torques (as described by NEMA for Above NEMA Motors)
- Standard NEMA voltage for each horsepower rating
- Minimum 90% Reduced Voltage Start
- NEMA specified (or less) load inertia applied to the motor shaft
- Inverter powered capabilities limited to Variable Torque loads
- Altitude below 3300 feet (above sea level)
- Operating ambient of 40°C (or lower)
- Horizontal foot mounted
- Centrifugal loads
- Direct coupled

The list of Baldor•Reliance Custom design capabilities and features is even more impressive. Please contact a Baldor office for details.

Enclosures: TEFC & TEAAC

	2	4	6	8	10	12	14	16	18	20	22	24
	3600	1800	1200	900	720	600	514	450	400	360	327	300
150												
200												
250												
300												
350												
400	Cast Frames											
450												
500												
600												
700												
800												
900												
1000												
1250												
1500												
1750												
2000												
2250												
2500												
2750												
3000												
3500	Fabricated Steel Frames											
4000												
4500												
5000												
6000												
7000												
8000												
9000												
10000												
12000												
15000												

Important Notes:

- Fabricated frames will be TEAAC enclosure.
- In many cases, fabricated frames utilize an enhanced cooling blower package to reduce noise levels.

Enclosures: ODP, WPI, WPII, TEWAC & TEFV

	2	4	6	8	10	12	14	16	18	20	22	24
	3600	1800	1200	900	720	600	514	450	400	360	327	300
150												
200												
250												
300												
350												
400	Cast Frames											
450												
500												
600												
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800												
900												
1000												
1250												
1500												
1750												
2000												
2250												
2500												
2750												
3000												
3500	Fabricated Steel Frames											
4000												
4500												
5000												
6000												
7000												
8000												
9000												
10000												
12000												
15000												

Important Notes:

- Application conditions outside of "NEMA" standards may move a rating to a different frame size.
- 1750 Hp to 2500 Hp 3600 RPM will normally be a cast frame rating, unless there is a requirement for "stiff shaft" design.
- Enhanced cooling blower systems (provided on the motor) may be required at the top end of a frame size.

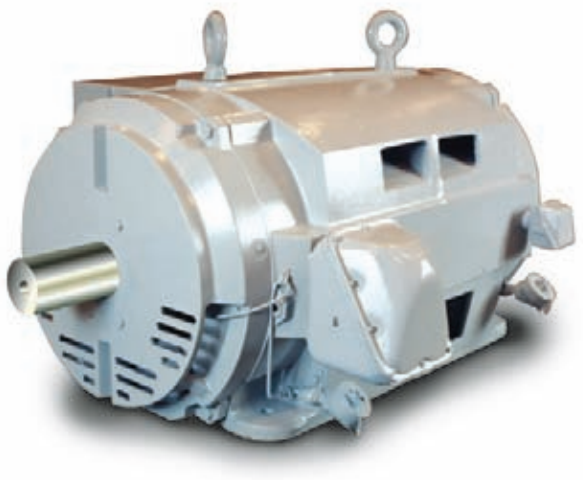
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Open Drip Proof and WPI

Standard Frame Selections

Baldor•Reliance Duty Master® motors have served industry for over 50 years with leading technologies that yield reliable low cost operation. In keeping with this tradition all Baldor•Reliance Duty Master motors are designed to meet our own rigid efficiency standards that exceed industry norms. By incorporating the highest grade materials available and best in the world manufacturing processes, Baldor•Reliance Duty Master motors have lower losses and consume less energy at the customer's site.

Open and weather protected motors typically drive pumps, compressors, fans, conveyors, machine tools in a variety of process and general purpose applications.



Energy Efficient 460 or 575 Volts, 60 Hz, 1.15 SF

Hp	kW	RPM			
		3600	1800	1200	900
200	150	—	—	E5006	5007L/E5006
250	187	—	—	E5006	5009L/E5008
300	224	—	—	E5006	5009L/E5010
350	261	—	E5006	5009L/E5008	5009L/E5010
400	298	—	E5008	5009L/E5010	5011L/E5012
450	336	5009S/E5008	E5008	5009L/E5010	5011L/E5012
500	373	5009S/E5008	5009L/E5008	5011L/E5010	5808/E5012
600	448	5009S/E5010	5009L/E5010	5011L/E5012	5810/05810
700	522	5009S/E5010	5011L/E5010	5808/E5810	5810
800	600	5808S/05808	5011L/E5012	5810/05810	E5812
900	671	5808S/05808	5808/E5012	5812/05810	E5812
1000	746	5808S/05808	5810/05808	E5812	E5812

Note: 5000 & 5800 frame motors can be ODP or WPI.

Energy Efficient 2300 or 4000 Volts, 60 Hz, 1.15 SF

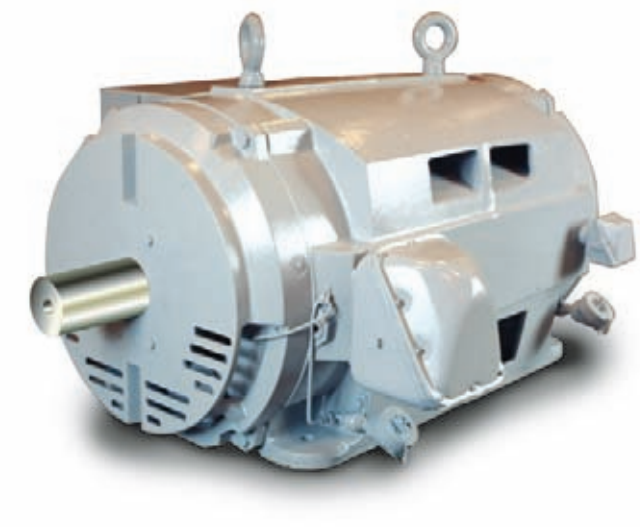
Hp	kW	RPM			
		3600	1800	1200	900
150	112	449TS/E447	449TS/E447	E449	5009L/E5006
200	150	449TS/E447	449TS/E447	5009L/E5006	5009L/E5006
250	187	449TS/E449	449T/E449	5009L/E5006	5009L/E5008
300	224	449TS/E449	449T/E449	5009L/E5006	5011L/E5010
350	261	5009S/E449	5009L/E5006	5009L/E5008	5011L/E5010
400	298	5009S/E449	5009L/E5008	5011L/E5010	5808/E5012
450	336	5009S/E5008	5009L/E5008	5011L/E5010	5808/E5012
500	373	5009S/E5008	5009L/E5008	5011L/E5010	5810/E5012
600	448	5009S/E5010	5011L/E5010	5808/E5012	5810/05810
700	522	5009S/E5010	5011L/E5010	5810/05810	5812/05810
800	600	5808S/05808	5808/E5012	5812/05810	E5812
900	671	5808S/05810	5810/05808	5810/05810	E5812
1000	746	05810/05808	5810/05808	E5812	E5812
1250	933	05810	5810	E5812	E5812
1500	1119	05810	E5812	E7111	E7111
1750	1305	05812	E5812	E7111	—
2000	1492	05812	E5812	E7111	—
2250	1678	S9500	E7111	—	—
2500	1865	L9500	E7111	—	—
2750	2051	L9500	E7111	—	—
3000	2238	L9500	E7111	—	—
3250	2424	—	—	—	—
3500	2611	—	—	—	—

Note: 5000 & 5800 frame motors can be ODP or WPI.
Data subject to change without notice. Contact a Baldor office for latest capabilities.

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Open Drip Proof and WPI

Standard Frame Selections



Open Drip Proof motors are cooled by forcing ambient air into the motor interior and over the rotor and stator. So these motors are typically used indoors where the air is reasonably clean, non corrosive and free of spraying water.

Weather Protected Type I (WPI) motors are also open motors. But the ventilation system is designed to minimize the effects of moisture and airborne particles. The mechanical and electrical components are also resistant to contaminated atmospheric conditions.

When selecting a WPI motor, the user needs to be aware that moisture and particulates in the atmosphere can still build up on the rotor and stator. Eventually, this can restrict air flow and limit heat dissipation in the rotor and stator. Over time this may cause the motor to run hotter and reduce its life. However this condition can be mitigated by periodic service that includes cleaning the interior components including the rotor and stator.

All things considered, WPI motor applications are typically limited to clean, dry and indoor applications.

Energy Efficient 6600 volts, 60 Hz, 1.15 SF

Hp	kW	RPM			
		3600	1800	1200	900
250	187	E5008	—	—	—
300	224	E5008	E5010	—	—
350	261	E5008	E5010	—	—
400	298	E5008	E5010	E5808	E5810
450	336	E5008	E5010	E5808	E5810
500	373	E5008	E5010	E5808	E5810
600	448	E5008	E5012	E5810	E5810
700	522	E5008	E5010	E5810	E5812
800	600	E5008	E5808	E5812	E5812
900	671	E5810	E5808	E5812	E5812
1000	746	E5810	E5810	E5812	E5812
1250	933	E5810	E5810	E7111	E7111
1500	1119	S9500	E5812	E7111	E7111
1750	1305	S9500	E5812	E7111	—
2000	1492	L9500	E7111	—	—
2250	1678	L9500	E7111	—	—
2500	1865	L9500	—	—	—

Note: Data subject to change without notice. Contact a Baldor office for latest capabilities.

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WPII

Standard Frame Selections



Weather Protected Type II (WPII) motors are cooled with ambient air. But they are also designed with a ventilation system that routes particulates present in the ambient air to be discharged without getting into the motor interior housing and its electrical components. This is achieved with a top hood or bonnet mounted over the motor housing and a baffling system that reduces the air velocity thereby allowing heavier particles to settle. Ventilation is provided by a shaft mounted fan located inside the housing.

WPII motors are typically used for outdoor applications, although filters are highly recommended.

Baldor•Reliance WPII top hoods for O5800 and O6800 frames are uniquely designed with a crowned top and 11 gage steel. Drip shields are provided to protect the filter access doors. The filter access doors are hinged and filters can be changed while the motor is running. Customers also benefit from superior noise suppression material in the top hood, a very robust method for attaching the hood to the housing and an easy hood mounting scheme. Noise suppression is improved further by an additional baffle on the hood exhaust rather than simple direct air discharge.

Enclosure enhancements are available such as stainless steel hardware, tropical protection for shipping, arctic and marine duty provisions, abrasive treatment for the motor windings and ingress protection.

Energy Efficient 460 or 575 Volts, 60 Hz, 1.15 SF

Hp	kW	RPM			
		3600	1800	1200	900
150	112	E5006	E5006	E5006	E5006
200	150	E5006	E5006	E5006	E5006
250	187	E5006	E5006	E5006	E5008
300	224	5009S/E5006	5009L/E5006	5009L/E5008	5810L/E5010
350	261	5009S/E5006	5009L/E5006	5009L/E5008	5810L/E5012
400	298	5009S/E5006	5009L/E5008	5009L/E5010	5810L/E5012
450	336	5009S/E5008	5009L/E5008	5011L/E5010	5810L/5808/E5012
500	373	5009S/E5008	5009L/E5008	5011L/E5010	E5012
600	448	5009S/E5010	5009L/E5010	5011L/E5012	E5808
700	522	5009S*/5808S/E5010	5011L/E5012	5810L/O5810	E5810
800	600	5808S/O5808	5810L/E5012	5810L/O5810	O5810
900	671	O5808	5810L/O5808	5812L/O5810	E5812
1000	746	O5808	O5810	E5812	E5812

Energy Efficient 2300 or 4000 Volts, 60 Hz, 1.15 SF

Hp	kW	RPM			
		3600	1800	1200	900
150	112	E5006	E5006	E5006	E5006
200	150	E5006	E5006	E5006	E5006
250	187	E5006	E5006	E5006	E5008
300	224	5009S/E5006	5009L/E5006	5810L/E5008	5810L/E5010
350	261	5009S/E5006	5009L/E5006	5009L/E5008	5810L/E5012
400	298	5009S/E5006	5009L/E5008	5011L/E5010	5810L/E5012
450	336	5009S/E5008	5009L/E5008	5011L/E5010	5812L/E5808
500	373	5009S/E5008	5009L/E5008	5011L/E5010	O5810
600	448	5009S/E5010	5009L/E5010	5808/E5012	O5810
700	522	5009S/5808S/E5010	5011L/E5012	5810L/O5810	E5810
800	600	5009S*/O5808	5810L/E5012	5810L/O5810	E5812
900	671	5808S/O5808	5810L/O5808	5812L/O5810	E5812
1000	746	5810S/O5808	5810L/O5810	E5812	E5812
1250	933	5810S/O5810	5812L/O5812	E5812	E7111
1500	1119	O5810	E5812	E5812	E7111
1750	1305	O5812	O5812	6811	6813
2000	1492	O5812	E7111	6813	6813
2250	1678	S9500	E7111	6813	—
2500	1865	S9500	E7111	6813	—
2750	2051	L9500	6813	—	—
3000	2238	L9500	6813	—	—
3500	2611	6813	6813	—	—
4000	2984	6813	6813	—	—
5000	3750	6813	—	—	—

Note: Data subject to change without notice. Contact a Baldor office for latest capabilities.

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WPII

Standard Frame Selections

Energy Efficient 6600 volts, 60 Hz, 1.15 SF

Hp	kW	RPM			
		3600	1800	1200	900
350	261	E5008	E5010	—	—
400	298	E5008	E5010	—	—
450	336	E5008	E5010	E5808	E5810
500	373	E5008	E5010	E5808	E5810
600	448	E5008	E5010	E5808	E5810
700	522	E5008	E5012	E5810	E5810
800	600	E5008	E5012	E5810	E5812
900	671	E5008	E5808	E5810	E5812
1000	746	E5010	E5010	E5812	E5812
1250	933	E5810	E5810	E7111	E5812
1500	1119	E5810	E5810	E7111	E5812
1750	1305	E5810	E5812	E7111	E7111
2000	1492	S9500	E7111	E7111	E7111
2250	1678	S9500	E7111	6813	—
2500	1865	S9500	E7111	—	—
2750	2051	L9500	E7111	—	—
3000	2238	L9500	6813	—	—
3500	2611	6813	6813	—	—

Note: Data subject to change without notice. Contact a Baldor office for latest capabilities.



This is a 7111 frame Duty Master® WPII motor operating in a petroleum refining facility.

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TEFC — Totally Enclosed Fan Cooled

Standard Frame Selections

Totally enclosed motors are completely enclosed so ambient air does not pass over interior components. Cooling is provided by a shaft mounted external fan that blows air over the ribbed housing.

The enclosed families of motors serve industry applications requiring protection against corrosion caused by severe and harsh environmental operating conditions. Typical applications include Petrochemical plants, mines, foundries, pulp and paper plants, waste management facilities and other critical processes.

Energy Efficient 460 or 575 Volts, 60 Hz, 1.15 SF

Hp	kW	RPM			
		3600	1800	1200	900
250	187	—	—	G5008	G5010
300	224	G5008	G5008	G5010	G5010
350	261	G5008	G5008	G5010	G5012
400	298	G5010	G5008	G5012	G5012
450	336	G5010	G5010	G5012	G5012
500	373	G5010	G5010	G5012	G5012
600	448	G5012/G400J	G5012	G5012	G5000/G400J*
700	522	G5012/G400J	G5012	G5000/G400J	G5000/G400J*
800	600	G5012/G400J	G5012	G5000/G400J	G5800/G500S
900	671	G5012/G400J	G5012	G5800/G500S	G5800/G500S
1000	746	G5810/G500M	G5810	G5800/G500S	G5800/G500S

Note: Data subject to change without notice. Contact a Baldor office for latest capabilities.



This is an API 541 TEFC G500M motor operating a compressor in a petroleum refinery.

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TEFC — Totally Enclosed Fan Cooled

Standard Frame Selections

Energy Efficient 2300 or 4000 Volts, 60 Hz, 1.15 SF

Hp	kW	RPM			
		3600	1800	1200	900
150	112	449TS	449T	449T	G5008
200	150	449TS	449T	G5008	G5008
250	187	G5008	G5008	G5008	G5010
300	224	G5008	G5008	G5010	G5010
350	261	G5008	G5008	G5010	G5012
400	298	G5010	G5008	G5012	G5012
450	336	G5010	G5010	G5012	G5012
500	373	G5010	G5010	G5012	G5012
600	448	G5010	G5012	G5012	G400J
700	522	G400J	G5012	G400J	G400J
800	600	G400J	G5012	G400J	G500S
900	671	G400J	G5012	G500S	G500S
1000	746	G500M	G400S	G500S	G500S
1250	932	G500M	G400S	G500S	G500M
1500	1119	G500M	G500M	G500M	G500M
1750	1305	—	G500M	G500M	—
2000	1492	—	G500M	—	—
2250	1678	—	G500M	—	—

Energy Efficient 6600 Volts, 60 Hz, 1.15 SF

Hp	kW	RPM			
		3600	1800	1200	900
150	112	—	—	—	—
200	150	—	—	—	—
250	187	G5010	G5010	G5010	G5010
300	224	G5010	G5010	G5012	G5012
350	261	G5010	G5010	G5012	G5012
400	298	G5010	G5010	G5012	G5012
450	336	G5010	G5012	G5012	G5012
500	373	G5000	G5012	G5012	G400S
600	448	G5000	G5012	G5012	G400S
700	522	G5000	G5012	G5800	G500S
800	600	G5000	G400S	G500M	G500S
900	671	G5800	G400S	G500M	G500S
1000	746	G5800	G400S	G500M	G500M
1250	932	G5800	G500M	G500M	G500M
1500	1119	—	G500M	G500M	—
1750	1305	—	G500M	—	—
2000	1492	—	—	—	—
2250	1678	—	—	—	—

Note: Data subject to change without notice.
Contact a Baldor office for latest capabilities.

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TEAAC — Totally Enclosed Air to Air Cooled

Standard Frame Selections

Totally Enclosed Air to Air Cooled motors are completely enclosed so ambient air does not pass over interior components. Cooling air for the rotor and stator is provided by a shaft mounted fan mounted inside the motor housing. The air is routed through an air to air heat exchanger mounted on top of the motor frame so cooling air is self contained and free of ambient air moisture and particulates. A second fan is mounted outside the motor housing to supply air to the heat exchanger.

Because they are capable of operating in either a clockwise or counter-clockwise direction (except 9500 frame), Baldor•Reliance TEAAC motors experience better rotor temperature stability and longer winding life. Tests have shown that unidirectionally cooled motors typically have at least 10 degrees C differential from one end of the core to the other. This results in higher temperatures for one end of the stator which potentially can limit motor life. This is one more example of Baldor's ability to find unique design solutions that yield reliable performance in tough applications.

Energy Efficient 460 or 575 Volts, 60 Hz, 1.0 SF

Hp	kW	RPM			
		3600	1800	1200	900
400	298	E5808	—	—	—
450	336	E5808	—	—	E5810
500	373	E5808	—	E5810	E5810
600	448	E5808	E5808	E5810	E5810
700	522	E5808	E5810	E5810	E5812
800	600	E5808	E5810	E5812	E5812
900	671	E5810	E5810	E5812	E6811
1000	746	E5810	E5810	E5812	E6811
1250	933	—	E5812	—	—

Note: Data subject to change without notice.
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TEAAC — Totally Enclosed Air to Air Cooled

Standard Frame Selections

Energy Efficient 2300 or 4000 Volts, 60 Hz, 1.15 SF

Hp	kW	RPM			
		3600	1800	1200	900
400	298	E5808	—	—	—
450	336	E5808	—	—	E5810
500	373	E5808	—	E5810	E5810
600	448	E5808	E5808	E5810	E5812
700	522	E5808	E5810	E5812	E5812
800	600	E5810	E5810	E5812	E5812 (1)
900	671	E5810	E5810	E5812 (1)	L9500
1000	746	L9500	E5810	E5812 (1)	L9500 (1)
1250	932	L9500	E5812	L9500	6813
1500	1119	L9500	L9500	L9500	6813
1750	1305	L9500	L9500 (1)	—	—
2000	1492	L9500	6811	—	—
2250	1678	L9500 (1)	6813	—	—
2500	1865	6813	6813	—	—
2750	2052	6813	6813	—	—
3000	2238	6813	6813	—	—
3500	2611	6813	—	—	—
4000	2984	6813	—	—	—

Energy Efficient 6600 Volts, 60 Hz, 1.15 SF

Hp	kW	RPM			
		3600	1800	1200	900
350	261	E5808	—	—	—
400	298	E5808	—	—	E5810
450	336	E5808	—	E5810	E5810
500	373	E5808	E5808	E5810	E5812
600	448	E5808	E5810	E5812	E5812
700	522	E5810	E5810	E5812	E5812 (1)
800	600	E5810	E5810	E5812 (1)	L9500
900	671	L9500	E5812	E5812 (1)	L9500 (1)
1000	746	L9500	E5812	L9500	6813
1250	932	L9500	L9500	L9500	6813
1500	1119	L9500	L9500 (1)	—	—
1750	1305	L9500	6813	—	—
2000	1492	L9500 (1)	6813	—	—
2250	1678	6813	6813	—	—
2500	1865	6813	6813	—	—
2750	2052	6813	6813	—	—
3000	2238	6813	—	—	—
3500	2611	6813	—	—	—

Note: (1) Standard for I-OSF only.
Sleeve bearings required. Data subject to change without notice.
Contact a Baldor office for latest capabilities.

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Explosion Proof Motors – Div 1, Class I, Group C & D

Standard Frame Selections

Baldor•Reliance Explosion Proof Motors are designed for long life in the unique and challenging environment that combines a volatile gaseous or vapor atmosphere even when salt water conditions are a factor. Baldor•Reliance explosion proof motors operate worldwide in petro-chemical applications such as drill rig service, bulk fuel terminals and transfer stations. Baldor•Reliance is also highly regarded in critical process industries including above and below ground mining as well as grain storage and conveyance.



Energy Efficient 460 or 575 Volts, 60 Hz, 1.0 SF

Hp	kW	RPM			
		3600	1800	1200	900
150	112	—	—	—	E5010
200	150	—	—	E5010	E5010
250	187	E5010	E5010	E5010	E5810
300	224	E5010	E5010	E5810	E5810
350	261	E5010	E5010	E5810	E5810
400	298	E5010	E5010	E5810	E5810
450	336	E5010	E5810	E5810	E5810
500	373	—	E5810	E5810	E5810
600	448	—	E5810	E5810	—
700	522	—	E5810	E5810	—
800	600	—	E5810	—	—

Note: Data subject to change without notice.
Additional explosion proof and hazardous duty motors are available. Contact a Baldor office for latest capabilities.

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BALDOR

Typical Performance Data –
Duty Master® General Purpose Motors

TEFC Energy Efficient 460 Volts, 3 Phase, 60 Hz, 1.15 SF

Hp	kW	RPM	Frame	Amps @ 460V		Rated Torque Lb. Ft.	Efficiency %			Power Factor %		
				Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load
200	149	1790	G5008	239	1512	586	92.8	94.1	94.5	70.1	79.1	83
		1193	G5008	234	1468	881	93.2	94.3	94.5	74.5	82	84.9
		894	G5008	259	1430	1174	94	94.8	94.8	60.3	71	76.2
250	187	3576	G5008	284	1920	367	91.14	93	93.7	76.8	84.9	88.1
		1790	G5008	304	1854	733	93.2	94.4	94.7	66.4	76.9	81.3
		1193	G5008	291	1896	1100	93.7	94.7	94.8	74.1	81.9	84.9
		894	G5008	318	1672	1469	94.6	95.1	95	62.8	72.8	77.4
300	224	3575	G5008	332	2174	441	92.2	93.7	94.2	80.7	87.4	89.8
		1788	G5008	347	1953	881	94.4	95.2	95.2	75.2	82.8	85.1
		1193	G5008	351	2408	1320	94.4	95.1	95.2	71.8	80.4	84
		894	G5010	378	2040	1762	94.8	95.3	95.2	63.9	73.7	78.1
350	261	3575	G5008	382	2544	514	93	94.3	94.7	82	88.3	90.4
		1790	G5008	404	2557	1027	94.7	95.5	95.5	73.6	82	85
		1193	G5010	399	2516	1541	94.8	95.4	95.3	77.2	83.8	86.1
		894	G5010	450	2506	2055	94.9	95.4	95.3	60.9	71.5	76.4
400	298	3574	G5008	439	2793	588	92.9	94.2	94.5	81.6	88.1	90.2
		1790	G5008	465	2883	1173	94.9	95.6	95.6	73	81.1	84.3
		1193	G5010	455	2887	1761	95	95.6	95.5	77.6	84	86.3
		894	G5012	501	2728	2349	95.2	95.6	95.4	64.5	74.1	78.4
450	336	3575	G5010	494	3214	661	93.4	94.5	94.8	80.9	87.7	90
		1790	G5008	515	3138	1320	95.3	95.8	95.8	75.7	82.8	85.4
		1193	G5012	511	3407	1980	95.1	95.6	95.5	76.8	83.7	86.3
		895	G5012	580	3338	2642	95	95.5	95.4	60.2	71	76.2
500	373	3576	G5010	545	3628	734	93.8	94.8	95	81.4	88.1	90.3
		1790	G5010	574	3757	1466	94.4	95.3	95.5	74.6	82.7	85.5
		1193	G5012	564	3653	2201	95.4	95.8	95.6	78.5	84.7	86.8
		897	G5012	670	3995	2929	94.6	95.5	95.7	53.6	66.1	73
600	448	3576	G5010	646	4336	881	94.5	95.3	95.4	84.1	89.3	91.2
		1790	G5010	675	4137	1760	95.1	95.7	95.7	79.2	85	87
		1195	G5012	667	4364	2637	95.4	95.9	95.9	79.6	85.8	87.8
700	522	1790	G5012	783	5087	2053	95.5	96	95.9	79.4	85.3	87.2
800	600	1790	G5012	892	5460	2347	95.7	96.1	96	80.5	85.9	87.5
900	671	1793	G5012	990	6762	2636	95.8	96.4	96.4	79.7	86.2	88.3

Note: *1.0 SF
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Typical Performance Data –
Duty Master® General Purpose Motors

TEFC Energy Efficient 2300 or 4000 Volts, 60 Hz, 1.15 SF

Hp	kW	RPM	Frame	Amps @ 2300V		Amps @ 4000V		Rated Torque Lb. Ft.	Efficiency %			Power Factor %		
				Full Load	Locked Rotor	Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load
200	149	3575	G5008	46	294	26	169	294	89.2	91.6	92.5	76.5	84.3	87.4
		1789	G5008	47	293	27	168	587	92.5	93.8	94.1	73.4	81.8	85.1
		1192	G5008	47	289	27	166	881	92.7	93.8	93.9	74.2	81.7	84.7
		894	G5008	51	290	29	167	1173	93.1	94.2	94.3	61.5	72.9	78
250	187	3575	G5008	59	374	34	215	367	89.5	91.8	92.6	73	82.1	86
		1789	G5008	59	359	34	206	734	93.4	94.4	94.5	71.9	80.2	83.5
		1192	G5008	59	369	34	212	1101	93.4	94.2	94.3	74.1	81.7	84.6
		894	G5010	64	358	37	206	1468	94	94.7	94.6	63.1	73.2	77.7
300	224	3575	G5008	69	441	40	254	441	90.8	92.7	93.3	76.1	84.3	87.6
		1789	G5008	72	440	41	253	880	93.6	94.5	94.7	69.8	78.8	82.6
		1192	G5010	70	461	40	265	1321	93.8	94.6	94.6	73.7	81.6	84.6
		894	G5010	76	435	44	250	1762	94.4	95	94.8	63.8	73.7	78.4
350	261	3575	G5008	79	496	45	285	514	91.8	93.4	93.9	79	86.2	88.8
		1789	G5008	82	514	47	296	1027	94.3	95	95.1	72.2	80.5	83.8
		1192	G5010	81	518	47	298	1542	94.3	94.9	94.9	75.6	82.7	85.4
		894	G5012	89	524	51	301	2056	94.4	95	94.9	62.4	72.8	77.6
400	298	3578	G5010	90	592	52	340	588	92.4	93.8	94.2	77.4	85.3	88.3
		1789	G5008	93	589	53	339	1174	94.7	95.3	95.3	73.4	81.3	84.4
		1192	G5012	93	626	53	360	1761	94.4	95.1	95	74.8	82.3	85.2
		894	G5012	101	605	58	348	2350	94.6	95.1	95	63.1	73.3	78
450	336	3578	G5010	101	702	58	404	661	92.9	94.2	94.6	76.9	85.1	88.3
		1789	G5010	104	671	60	386	1320	93.9	94.8	95	74.3	82.4	85.1
		1192	G5012	103	688	59	396	1982	94.7	95.2	95.1	75.6	82.9	85.7
		894	G5012	114	684	66	393	2644	95	95.4	95.3	61.8	72.4	77.3
500	373	3577	G5010	111	750	64	431	734	93.4	94.5	94.8	79.5	86.8	89.4
		1789	G5010	115	723	66	416	1468	94.3	95.1	95.1	75.9	83.4	85.7
		1192	G5012	115	787	66	453	2201	95.1	95.6	95.4	75	82.5	85.3
		896	G5810	125	711	72	409	2931	94.7	95.4	95.4	62.9	73.8	78.8
600	448	3576	G5010	132	875	76	503	881	94.3	95.1	95.2	80.1	87.3	89.7
		1790	G5012	138	915	79	526	1760	94.7	95.4	95.4	75.6	82.8	85.5
		1195	G5012	136	953	78	548	2637	95	95.7	95.7	75.1	83.1	86.2
		894	G400J	149	727	86	418	3523	94.9	95.5	95.3	68	76.3	79.3
700	522	3581	G400J	156	969	90	557	1027	94.8	95.5	95.6	79.3	85.9	88.2
		1789	G5012	159	1056	91	607	2054	95.1	95.7	95.6	77.1	83.8	86.1
		1194	G5810	161	995	93	572	3079	95.2	95.7	95.7	75.3	82.4	85
		897	G5810	174	987	100	568	4099	94.8	95.6	95.8	64.1	74.2	78.6
800	600	3582	G5810	177	1122	102	645	1173	95.1	95.8	95.8	79.7	86	88.3
		1789	G5012	181	1182	104	680	2347	95.6	96	95.9	77.6	84.1	86.5
		1196	G5810	183	1163	105	669	3513	95.4	96.1	96.2	75.8	82.8	85.2
		898	G500S	194	1192	112	685	4681	94.7	95.6	95.9	67.5	76.9	80.7
900	671	3586	G400J	196	1231	113	708	1318	95.3	96.1	96.2	81.5	87.3	89.3
		1792	G5012	200	1353	115	778	2638	95.8	96.3	96.2	78.6	85.4	87.7
		1197	G500S	202	1308	116	752	3951	94.6	95.5	95.8	79.3	85.2	87
		898	G500S	216	1342	124	772	5266	95	95.8	96	68.4	77.6	81.2

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Typical Performance Data –
Duty Master® General Purpose Motors

TEFC Energy Efficient 2300 or 4000 Volts, 60 Hz, 1.15 SF (continued)

Hp	kW	RPM	Frame	Amps @ 2300V*		Amps @ 4000V		Rated Torque Lb. Ft.	Efficiency %			Power Factor %		
				Full Load	Locked Rotor	Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load
1000	746	3591	G500M	222	1394	128	802	1462	92.6	94.5	95.3	81.2	96.8	88.7
		1792	G5810	224	1341	129	771	2930	95.7	96.2	96.1	78	84.6	86.9
		1197	G500S	223	1438	128	827	4389	94.9	95.8	96	80.6	86	87.5
		897	G500M	238	1342	137	772	5853	95.6	96.2	96.2	71.2	79.1	81.9
1250	932	3592	G500M	274	1757	158	1010	1828	93.7	95.2	95.9	81.6	87.1	89
		1794	5800	276	1704	159	980	3660	96.3	96.8	96.7	81.2	86.4	87.7
		1197	G500S	278	1752	160	1007	5486	95.6	96.3	96.3	80.8	86.1	87.4
		898	G500M	299	1812	172	1042	7314	95.5	96.2	96.4	69.3	78	81.4
1500	1119	3592	G500M	328	2181	189	1254	2194	94.6	95.8	96.3	80.9	86.8	88.9
		1796	G500M	335	2146	193	1234	4388	95.3	96.2	96.4	79.2	85.1	87
		1197	G500M	333	2290	191	1317	6581	95.7	96.3	96.4	79.6	85.6	87.4
1750	1305	1795	G500M	388	2369	223	1362	5119	95.8	96.5	96.6	80.9	86.1	87.4
		1197	G500M	388	2642	223	1519	7678	95.9	96.5	96.6	80.1	85.9	87.6
2000	1492	1796	G500M	441	2850	254	1639	5849	96.3	97	97.2	80	85.7	87.3
2250	1678	1796	G500M	498	3201	286	1841	6581	96.3	97	97.2	79.6	85.4	87.1

ODP/WPI Energy Efficient 460 Volts, 60 Hz, 1.15 SF

Hp	kW	RPM	Frame	Amps @ 460V		Rated Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings	
				Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	D.E.	O.D.E.
500	373	3550	5009S	532	3459	732	95.4	96	95.8	82	88	90	6217	6217
		1780	5009L	582	3381	1467	95.2	95.5	95.8	80	82	85	6222	6222
600	448	3550	5009S	652	4068	882	95.1	95.9	95.8	87	89	90	6217	6217
		1780	5009L	658	3476	1760	96.2	96.4	96.2	87	90	90	6222	6222

ODP/WPI Energy Efficient, 2300 or 4000 Volts, 60 Hz, 1.15 SF

Hp	kW	RPM	Frame	Amps @ 4000V		Rated Torque Lb. Ft.	Efficiency %			Power Factor %			Bearings	
				Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load	D.E.	O.D.E.
300	224	3560	449T	37	240	442	92.7	93.8	94.1	85	89	92	6314	6314
		1785	5009L	38	224	883	94.1	94.6	94.5	82	87	89	6222	6222
400	298	3580	5009S	49	557	587	94	94.8	95	84	88	90	6217	6217
		1790	5009L	52	329	1174	93.3	95.1	95	81	86	86	6222	6222
500	373	3580	5009S	61	401	735	95.2	95.6	95.4	85	88	90	6217	6217
		1790	5009L	64	427	1468	93.7	94.5	95	82	85	87	6222	6222
600	448	3580	5009S	72	462	881	94.7	95.5	95.8	84	88	90	6217	6217
		1790	5009L	76	416	1763	93.7	94.8	95.4	80	85	88	6222	6222

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Typical Performance Data –
Duty Master® General Purpose Motors

ODP/WPI Energy Efficient 2300 or 4000 Volts, 60 Hz, 1.15 SF

Hp	kW	RPM	Frame	Amps @ 2300V		Amps @ 4000V		Rated Torque Lb. Ft.	Efficiency %			Power Factor %		
				Full Load	Locked Rotor	Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load
200	150	3565	447	49	262	28	151	295	91.4	92.9	93.1	67.2	77.8	82.4
		1780	447	47	266	27	153	590	93.5	94.1	93.9	75.3	82.5	85.1
		1189	5006	46	296	26	170	883	92.5	93.4	93.4	78	84.4	86.7
		890	5006	51	273	29	157	1180	92.6	93.4	93.3	63.5	73.9	78.9
250	187	3567	449	59	336	34	193	368	92.6	93.7	93.8	70.4	80.2	84.3
		1780	449	57	337	33	194	738	94.3	94.7	94.4	78.3	84.5	86.5
		1189	5006	59	378	34	217	1104	92.1	93.2	93.3	73.1	81.2	84.5
		889	5008	66	339	38	195	1476	92.6	93.4	93.2	59.3	70.7	76.6
300	224	3566	449	71	411	41	236	442	93	93.9	94	70.6	80.5	84.6
		1781	449	68	421	39	242	885	94.6	94.9	94.6	79.3	85.2	87.1
		1186	5006	71	442	41	254	1328	92.8	93.5	93.3	72.2	80.8	84.3
		889	5010	75	391	43	225	1773	93.6	94	93.6	65.4	75.3	79.8
350	261	3568	449	80	514	46	296	515	93.8	94.6	94.5	74.3	83.2	86.6
		1782	5006	79	489	45	281	1031	93.6	94.3	94.1	82.5	87.3	88.6
		1184	5008	83	483	48	278	1552	93.4	93.8	93.4	74.1	81.9	85
		888	5010	86	423	49	243	2071	94.2	94.3	93.8	69.7	78.2	81.6
400	298	3568	449	90	579	52	333	589	94.4	95	94.8	77.3	85.1	87.9
		1778	5008	93	532	53	306	1181	94.1	94.6	94.4	74.8	82.5	85.5
		1186	5010	93	611	53	351	1771	93.9	94.3	94	75.6	83.1	86.1
		889	5012	98	547	56	315	2362	94.3	94.6	94.2	68	77.2	81.3
450	336	3571	5008	99	661	57	380	661	94.7	95.1	95	81.1	87	89.1
		1778	5008	105	592	60	340	1329	94.2	94.6	94.4	73.8	81.8	85
		1186	5010	103	699	59	402	1992	94.2	94.6	94.3	77.2	84.2	86.8
		889	5012	112	625	64	359	2657	94.1	94.5	94.1	65.7	75.7	80.3
500	373	3572	5008	115	738	66	424	735	94	94.8	94.8	74.4	82.6	86
		1778	5008	118	662	68	381	1476	94.1	94.6	94.3	71.8	80.5	84.1
		1186	5010	114	749	66	431	2215	94.5	94.7	94.3	78.8	85.2	87.4
		888	5012	121	644	70	370	2956	94.5	94.7	94.2	69.6	78.3	81.9
600	448	3571	5010	135	845	78	486	882	94.7	95.2	95.1	78.4	85.1	87.7
		1777	5010	138	813	79	467	1772	94.9	95.1	94.8	75.4	83	85.9
		1185	5012	135	888	78	511	2658	94.8	94.9	94.4	80.4	86.1	88
		888	5810	143	745	82	428	3547	94.9	94.9	94.4	71.3	79.6	83
700	522	3573	5010	157	1039	90	597	1028	94.8	95.4	95.3	78.2	85.1	87.8
		1776	5010	159	935	91	538	2069	95.2	95.3	94.9	78.1	84.8	87.1
		1185	5810	157	799	90	459	3102	94.7	94.8	94.4	81.5	86.8	88.4
		889	5810	166	918	95	528	4135	95.2	95.3	94.8	71.7	80	83.4
800	600	3577	5808	184	1022	106	588	1174	94.3	95.1	95.2	72.5	81.8	85.5
		1778	5012	181	1175	104	676	2361	95.4	95.5	95.2	76.7	84	86.9
		1186	5810	178	993	102	571	3541	95	95.2	94.8	81.3	86.8	88.7
		889	5812	188	1042	108	599	4727	95.4	95.4	94.9	72.6	80.6	83.8
900	671	3574	5810	198	1016	114	584	1322	95.1	95.6	95.5	82.2	87.4	89.1
		1777	5012	202	1286	116	739	2658	95.7	95.7	95.3	78.7	85.3	87.6
		1186	5810	201	1164	116	669	3982	95	95.2	94.9	80.1	86.2	88.3
		889	5812	215	1259	124	724	5312	95.2	95.4	94.9	69.3	78.5	82.5
1000	746	3575	5810	223	1213	128	697	1469	94.9	95.5	95.5	78.6	85.3	87.7
		1779	5808	226	1104	130	635	2952	94.9	95.1	94.8	80.2	85.8	87.5
		1186	5812	221	1318	127	758	4424	95.2	95.4	95	81.8	87.3	89.1
		888	5812	234	1290	135	742	5910	95.8	95.7	95.1	73.8	81.4	84.3

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Typical Performance Data –
Duty Master® General Purpose Motors

ODP/WPI Energy Efficient 2300 or 4000 Volts, 60 Hz, 1.15 SF (continued)

Hp	kW	RPM	Frame	Amps @ 2300V		Amps @ 4000V		Rated Torque Lb. Ft.	Efficiency %			Power Factor %		
				Full Load	Locked Rotor	Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load
1250	933	3575	5810	281	1495	162	860	1836	95.2	95.7	95.6	77.6	84.6	87.2
		1778	5810	276	1426	159	820	3691	95.6	95.6	95.2	83.4	87.9	89.1
		1187	5812	276	1700	159	978	5529	95.4	95.5	95.1	81.3	87	89
		893	7111	281	1629	162	937	7348	94.8	95.4	95.4	78.4	85.1	87.3
1500	1119	3580	5810	330	1771	190	1018	2200	95.1	95.8	95.9	81.7	87.2	88.8
		1780	5812	329	1915	189	1101	4423	95.8	95.9	95.5	82.9	87.9	89.4
		1191	7111	324	2079	186	1195	6617	95.2	95.7	95.5	86.5	90.1	90.9
		894	7111	334	1976	192	1136	8816	95.1	95.6	95.5	79.8	86	88
1750	1305	3584	5812	380	2302	219	1324	2564	95.7	96.3	96.4	82.3	87.8	89.6
		1780	5812	383	2339	220	1345	5159	95.9	96	95.6	82.5	87.8	89.5
		1190	7111	376	2355	216	1354	7721	95.5	95.8	95.6	87.3	90.5	91.1
2000	1492	3589	9500	439	2616	252	1504	2928	95.1	96.1	96.4	79	86	88.6
		1789	7111	440	2836	253	1631	5872	96.2	96.6	96.5	81.7	86.9	88.3
		1191	7111	429	2689	247	1546	8822	95.6	95.9	95.7	87.5	90.6	91.1
2250	1678	3587	9500	492	2719	283	1563	3296	95.3	96.3	96.5	80.1	86.5	88.7
		1790	7111	488	3218	281	1850	6603	96.3	96.7	96.6	84.3	88.5	89.5
2500	1865	3580	9500	531	3316	305	1907	3668	96.1	96.6	96.6	85.5	90	91.3
		1790	7111	539	3699	310	2127	7334	96.5	96.9	96.7	84.5	88.7	89.7
3000	2238	3580	9500	637	3547	366	2040	4401	96.4	96.9	96.9	86.3	90.2	91.1
		1789	7111	644	3919	370	2253	8807	97.1	97.2	96.9	87	89.8	90

WPII Energy Efficient 2300 or 4000 Volts, 60 Hz, 1.15 SF

Hp	kW	RPM	Frame	Amps @ 2300V		Amps @ 4000V		Rated Torque Lb. Ft.	Efficiency %			Power Factor %		
				Full Load	Locked Rotor	Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load
200	150	3572	5006	47	285	27	164	294	92.1	93.4	93.7	71.5	80.7	84.6
		1784	5006	46	289	26	166	588	91.6	93	93.2	77.2	84	86.5
		1189	5006	46	296	26	170	883	92.5	93.4	93.4	78	84.4	86.7
		890	5006	51	273	29	157	1180	92.6	93.4	93.3	63.5	73.9	78.9
250	187	3573	5006	58	382	33	220	367	92.7	93.9	94.1	71.7	81.1	85.1
		1785	5006	57	384	33	221	735	92.3	93.4	93.6	77.2	84.8	87.2
		1187	5006	58	374	33	215	1105	92.9	93.6	93.5	75.5	83	85.9
		889	5008	63	339	36	195	1476	93.4	94	93.7	64.9	75	79.7
300	224	3572	5006	68	443	39	255	441	93.8	94.6	94.6	77.6	85	87.8
		1782	5006	67	407	39	234	884	93.6	94.2	94	83.7	88	89
		1185	5006	70	424	40	244	1329	93.4	93.9	93.5	76.1	83.3	86
		890	5010	75	423	43	243	1770	93.8	94.2	94	65.4	75.5	80.1
350	261	3571	5006	79	509	45	293	514	93.9	94.7	94.7	75.9	84	87.1
		1783	5006	78	512	45	294	1030	93.8	94.5	94.3	82.9	87.7	89
		1186	5008	81	530	47	305	1549	93.7	94.2	93.9	75.4	83	86
		888	5012	84	428	48	246	2070	94.6	94.7	94.1	72.6	80.1	82.9
400	298	3566	5006	90	519	52	298	589	94.2	94.7	94.5	78.8	85.3	87.7
		1778	5008	93	532	53	306	1181	94.1	94.6	94.4	74.8	82.5	85.5
		1186	5010	91	617	52	355	1770	94.4	94.7	94.3	79.1	85.4	87.6
		889	5012	98	547	56	315	2362	94.3	94.6	94.2	68	77.2	81.3
450	336	3571	5008	99	661	57	380	661	94.7	95.1	95	81.1	87	89.1
		1778	5008	105	592	60	340	1329	94.2	94.6	94.4	73.8	81.8	85
		1185	5010	101	656	58	377	1994	94.7	94.8	94.3	80.9	86.4	88.1
		890	5012	111	644	64	370	2656	94.3	94.6	94.3	66.8	76.5	80.9

Note: Data subject to change without notice. If data is not shown, contact a Baldor office. Contact a Baldor office for latest capabilities.

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Typical Performance Data –
Duty Master® General Purpose Motors

WPII Energy Efficient 2300 or 4000 Volts, 60 Hz, 1.15 SF (continued)

Hp	kW	RPM	Frame	Amps @ 2300V		Amps @ 4000V		Rated Torque Lb. Ft.	Efficiency %			Power Factor %		
				Full Load	Locked Rotor	Full Load	Locked Rotor		1/2	3/4	Full Load	1/2	3/4	Full Load
500	373	3572	5008	115	738	66	424	735	94	94.8	94.8	74.4	82.6	86
		1778	5008	116	679	67	390	1476	94.5	94.9	94.6	74.2	82.2	85.4
		1186	5012	112	758	64	436	2214	94.7	94.8	94.3	81.5	86.8	88.5
600	448	3571	5010	135	845	78	486	882	94.7	95.2	95.1	78.4	85.1	87.7
		1777	5010	138	813	79	467	1772	94.9	95.1	94.8	75.4	83	85.9
		1186	5012	134	943	77	542	2656	94.9	95	94.6	80.7	86.4	88.3
		888	5810	143	745	82	428	3547	94.9	94.9	94.4	71.3	79.6	83
700	522	3573	5010	157	1039	90	597	1028	94.8	95.4	95.3	78.2	85.1	87.8
		1777	5012	157	979	90	563	2067	95.5	95.5	95.1	79.1	85.5	87.7
		889	5810	166	918	95	528	4135	95.2	95.3	94.8	71.7	80	83.4
800	600	3573	05808	184	980	106	564	1176	94.3	95.1	95.1	73.9	82.5	85.6
		1784	05808	186	995	107	572	2356	94.5	95	94.9	73.2	81.4	84.7
		889	5812	188	1042	108	599	4727	95.4	95.4	94.9	72.6	80.6	83.8
900	671	3567	05808	209	1109	120	638	1325	93.5	94.4	94.5	73.7	82.2	85.3
		1785	05808	210	1172	121	674	2649	94.6	95.1	95	72.6	81.1	84.7
		889	5812	215	1259	124	724	5312	95.2	95.4	94.9	69.3	78.5	82.5
1000	746	3565	05808	233	1165	134	670	1473	93.7	94.5	94.6	73.8	82.1	85.1
		1782	05808	228	1114	131	641	2949	95.3	95.5	95.1	77.8	84.2	86.3
		888	5812	225	1290	129	742	5910	95.8	95.7	95.1	73.8	81.4	84.3
1250	932	3574	05810	279	1544	160	888	1837	95.5	95.9	95.8	78.7	85.3	87.6
		1786	05810	288	1823	166	1048	3677	95.1	95.6	95.5	72.5	81.3	85.1
		894	7111	282	1853	162	1065	7341	94.6	95.4	95.4	76	83.9	86.9
1500	1119	3572	05810	332	1727	191	993	2205	95.8	96	95.8	80.8	86.5	88.2
		1788	05810	333	1970	191	1133	4408	96.2	96.5	95.7	83.8	89	88.1
		1191	7111	337	2079	194	1195	6617	95.2	95.7	95.7	86.5	90.1	87
		894	7111	336	2170	193	1248	8810	94.9	95.6	95.6	77.7	85	87.6
1750	1305	3580	05810	389	2189	224	1259	2568	95.8	96.3	96.2	78.5	85.3	87.5
		1784	05812	384	2340	221	1346	5153	96.3	96.3	96	81.8	87.2	89
		1191	7111	374	2459	215	1414	7716	95.6	95.9	95.8	87.7	90.8	91.4
2000	1492	3583	05812	430	2713	247	1560	2930	96.2	96.6	96.6	83.8	88.7	90.2
		1784	05812	446	2731	256	1570	5889	95.9	96.1	95.8	78.6	85.3	87.7
		1191	7111	427	2729	246	1569	8820	96	96.2	95.9	87.8	90.9	91.4
2250	1678	3582	05812	486	2935	279	1688	3299	96.2	96.6	96.5	83.6	88.5	89.9
		1789	05812	487	3106	280	1786	6609	96.1	96.4	96.3	82	88.1	90
2500	1865	3582	05812	543	3206	312	1843	3666	96.4	96.7	96.6	82.5	87.7	89.3
		1790	7111	538	3565	309	2050	7336	96.8	97	96.8	85.2	89	89.8
3000		3580	9500	637	3547	366	2040	4401	96.4	96.9	96.9	86.3	90.2	91.1

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Variable Speed Superiority

As mentioned earlier, energy consumption is by far the biggest cost associated with electric motor ownership. With the potential to save more than half of the energy used, it's no surprise that adjustable speed drives (ASD's) operating with AC motors are now commonplace in industry. In addition to energy savings, motors powered by ASD's also deliver operational flexibility and superior performance in most applications. And because Baldor designs and manufactures both motors and drives, our years of experience in matching both motors and drives affords customers a unique value opportunity.

Not every Above NEMA Motor is a suitable motor for the variety of ASD's available in today's market. But, with zero tolerance for downtime and 24/7 production schedules, industrial customers expect predictable motor and ASD performance. With this in mind Baldor•Reliance Duty Master® motors for variable speed applications are engineered for reliable performance in the most demanding industrial conditions. These unique design capabilities have been nurtured over the years as Baldor engineers worked closely with customers in Petro-Chemical, Paper, Mining, Metals, Power Generation and HVAC industries to seek application specific solutions that exceed customer needs and expectations. And Baldor is no stranger to critical service applications, such as the totally enclosed explosion proof Duty Master motors capable of continuous constant torque operation at zero speed found on Drill Rig Top Drive applications.

Before the motor is selected for a variable speed application, it's important to understand the following:

- Is this a variable or constant torque load?
- What is the minimum and maximum speed?
- What is the overload percent and time?

Even when the application appears to be routine, years of ASD experience have taught Baldor to be cautious when designing Above NEMA Inverter Duty Motors. The ability to meet these rigorous demands is achieved by designing the following attributes into every Duty Master Inverter Duty motor:

- Class II high strength shaft material to help offset fatigue created by instantaneous ripple torques
- True thermal capability where each VSD motor is designed to operate continuously at the lowest possible speed where reduced air flow can cause overheating
- An insulation system designed to handle the higher voltage stress caused by non sine wave power into the motor, including glass served wire and 3.5 p.u. (per unit) surge protection
- Power dense designs for applications where fast response to speed commands and high torque is required. Where size and space are important, these power dense designs can result in a motor that is up to three sizes below conventional NEMA Frame motors
- Insulated bearings on both ends of the motor to prevent shaft currents from damaging the motor bearings or driven equipment bearings

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Test and Verify

Baldor employs state of the art design tools, advanced materials and dependable manufacturing methods to achieve a precise combination of desired performance characteristics. Additionally, both individual components and assembled motors are rigorously tested and proven to meet the specified requirements.

Materials and components are tested before assembly to make certain material specifications are being met by suppliers. During the manufacturing process, sub assemblies such as stator and core are tested prior to final assembly. After final assembly every motor gets a Routine Test.

In addition to the requirements of NEMA MG 1-2006-20.47.2, the following tests/checks are also conducted on each assembled motor:

Routine Test

- Measurement of winding resistance
- No-load readings of current, power and nominal speed at rated voltage and frequency
- High potential test in accordance with MG 1-20.48
- Three phase locked rotor current and torque
- Vibration check in accordance with MG 1-20.54

The optional Complete Test consists of the following:

Complete Test

- Routine test
- Full load temperature test (loading by dynamometer)
- Full load speed (% slip)
- Check of current balance
- Full load current
- Pull up (derived), breakdown and full load torque
- Efficiency and power factor vs. load
- Dynamometer heat run to determine full load or service factor at temperature rise
- Dynamometer measured efficiency in accordance with IEEE 112 method B

The complete list of optional Baldor•Reliance test capabilities is vast. Some of the more common tests performed by Baldor are; API 541 Routine Test, Noise, Polarization Index and No Load Vibration Tests.

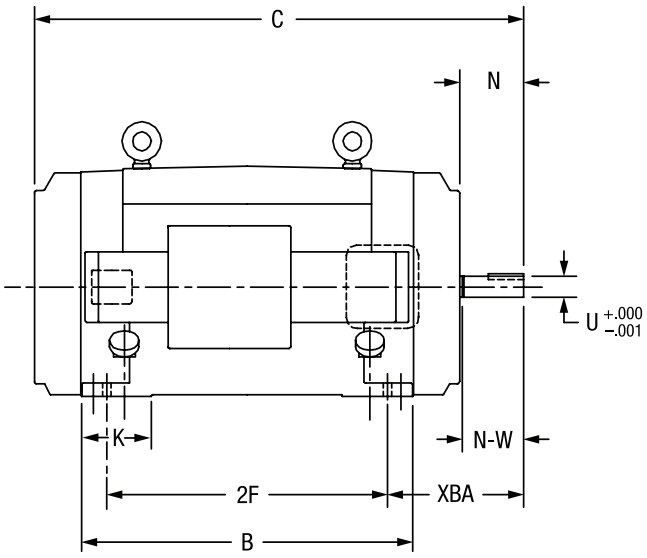
Of particular interest, every Enduraseal® stator up to 7000 volts passes a sealed winding conformance test (immersion test) in accordance with NEMA 1-20.18.1.This test consists of submerging the completed stator in a tank of water containing a wetting agent. While submerged, the stator is given a 10 minute polarization index test at 500 volts DC, and a high potential test at 1.15 times the rated line to line RMS voltage for one minute.

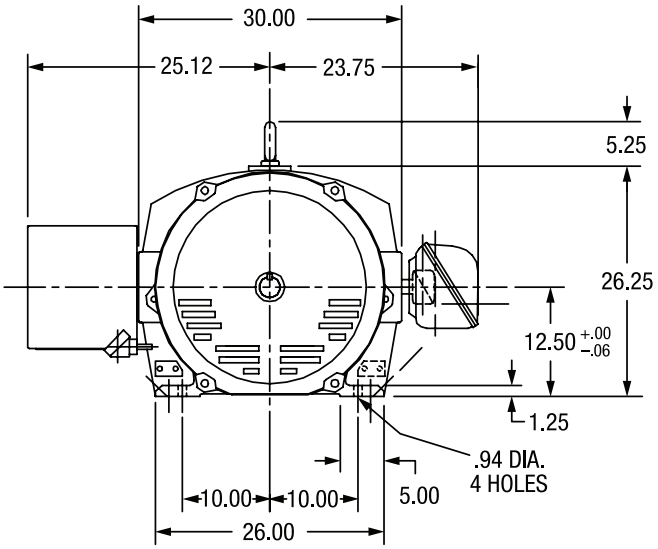
Testing disciplines described here verify design integrity and manufacturing consistency. This brings the Baldor quality story full circle and ensures performance predictability on every Baldor customer application.

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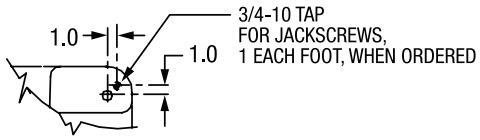
Typical Dimensions *(Only use Certified Prints for Construction & Installation)*

ODP / WPI 5000
Drawing 616160-002





SEE DRAWING 616171-002 FOR CONDUIT BOX DIMENSIONS.



BOTTOM VIEW OF FOOT

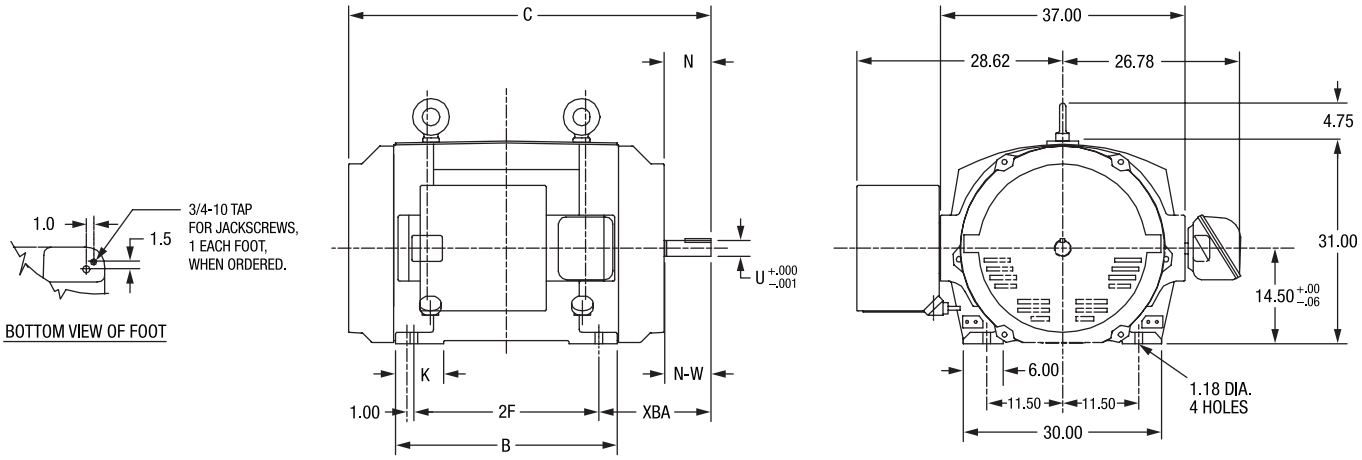
Frame	Bearings	C	B	2F	K	XBA	N	N-W	U
5006Y	Anti Friction	47.75	25.75	20.00	10.00	19.50	11.25	11.00	3.75
5006Z	Anti Friction	43.75	25.75	20.00	10.00	15.50	7.25	7.00	4.13
5006S	Anti Friction	43.75	25.75	20.00	10.00	15.50	7.25	7.00	2.38
5008Y	Anti Friction	52.75	30.75	25.00	8.00	19.50	11.25	11.00	3.75
5008Z	Anti Friction	48.75	30.75	25.00	8.00	15.50	7.25	7.00	4.13
5008S	Anti Friction	48.75	30.75	25.00	8.00	15.50	7.25	7.00	2.38
5010Y	Anti Friction	59.75	37.75	32.00	11.50	19.50	11.25	11.00	3.75
5010Z	Anti Friction	55.75	37.75	32.00	11.50	15.50	7.25	7.00	4.13
5010S	Anti Friction	55.75	37.75	32.00	11.50	15.50	7.25	7.00	2.38
5012Y	Anti Friction	67.75	45.75	40.00	11.50	19.50	11.25	11.00	3.75
5012Z	Anti Friction	63.75	45.75	40.00	11.50	15.50	7.25	7.00	4.13
5006Z	Sleeve	43.88	25.75	20.00	10.00	15.50	7.12	7.00	3.63
5006S	Sleeve	43.88	25.75	20.00	10.00	15.50	7.12	7.00	2.88
5008Z	Sleeve	48.88	30.75	25.00	8.00	15.50	7.12	7.00	3.63
5008S	Sleeve	48.88	30.75	25.00	8.00	15.50	7.12	7.00	2.88
5010Z	Sleeve	55.88	37.75	32.00	11.50	15.50	7.12	7.00	3.63
5010S	Sleeve	55.88	37.75	32.00	11.50	15.50	7.12	7.00	2.88
5012Z	Sleeve	63.88	45.75	40.00	11.50	15.50	7.12	7.00	3.63

Note: Drawings shown are for reference only. Please contact Baldor for a detailed dimensional drawing of the specific motor you require. Dimensions are in inches. Drawings may also be available from our CD-ROM or website at www.baldor.com.

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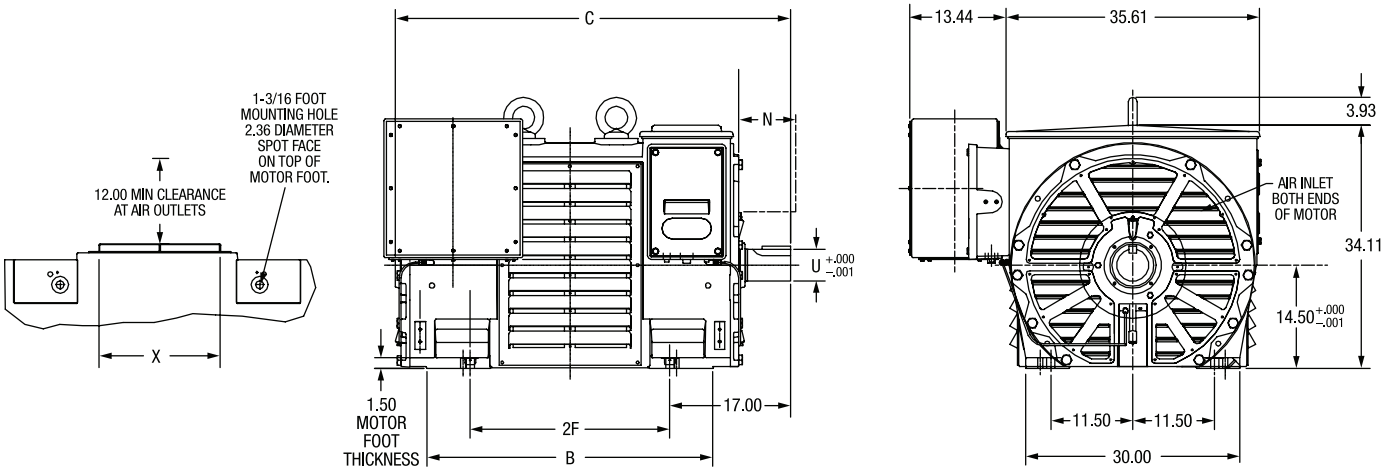
ODP / WPI E5800
Drawing 616160-004



SEE DRAWING 616171-003 FOR CONDUIT BOX DIMENSIONS.

Frame	Bearings	C	B	2F	K	XBA	N	N-W	U
5808S	Anti Friction	54.88	33.50	28.00	9.50	17.00	7.12	6.75	4.50
5808	Anti Friction	58.88	33.50	28.00	9.50	21.00	11.12	10.75	4.50
5810S	Anti Friction	62.88	41.50	36.00	9.50	17.00	7.12	6.75	4.50
5810	Anti Friction	66.88	41.50	36.00	9.50	21.00	11.12	10.75	4.50
5812S	Anti Friction	71.88	45.00	45.00	9.50	17.00	7.12	6.75	4.50
5812	Anti Friction	75.88	45.00	45.00	9.50	21.00	11.12	10.75	4.50
5808S	Sleeve	54.75	33.50	28.00	9.25	17.00	7.25	7.00	3.63
5808S	Sleeve	54.75	33.50	28.00	9.25	17.00	7.25	7.00	2.88
5810S	Sleeve	62.75	41.50	36.00	9.25	17.00	7.25	7.00	3.63
5810S	Sleeve	62.75	41.50	36.00	9.25	17.00	7.25	7.00	2.88
5812S	Sleeve	71.75	50.50	45.00	9.25	17.00	7.25	7.00	4.50
5812S	Sleeve	71.75	50.50	45.00	9.25	17.00	7.25	7.00	3.63

ODP / WPI O5800
Drawing 616160-014



SEE DRAWING 616171-027 FOR TERMINAL BOX DIMENSIONS.

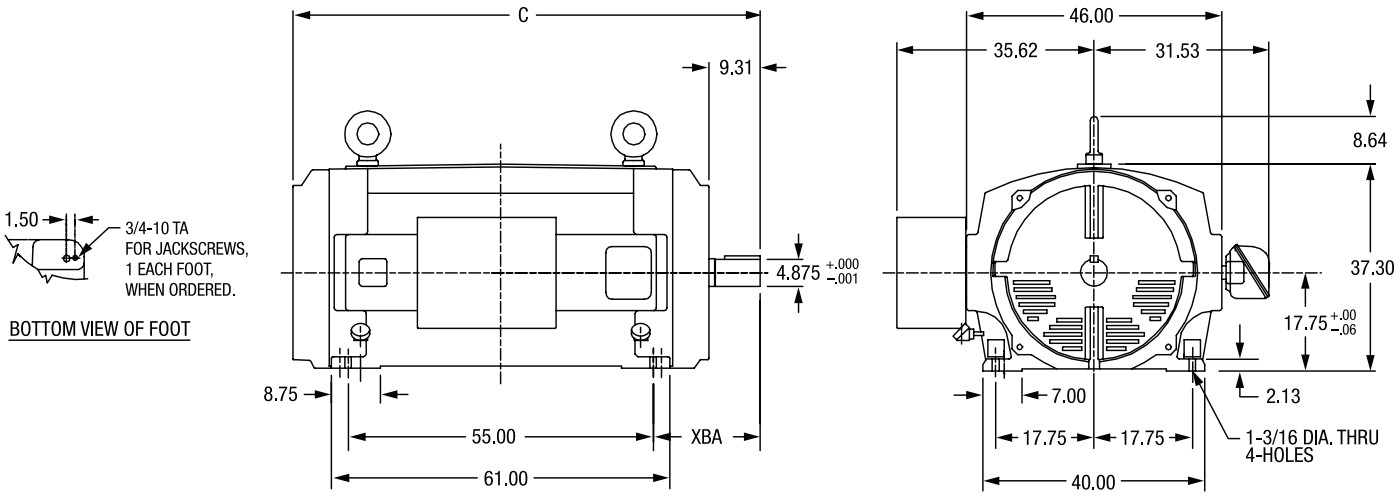
Frame	Bearings	C	B	2F	N	U	N
05808	Anti Friction	56.46	40.13	28.00	8.00	4.50	7.32
05810	Anti Friction	63.48	48.13	36.00	8.00	4.50	7.32
05812	Anti Friction	72.48	57.13	45.00	8.00	4.50	7.32
05808S	Sleeve	55.99	40.13	28.00	12.00	2.88	7.56
05810S	Sleeve	63.99	48.13	36.00	12.00	2.88	7.56
05812S	Sleeve	72.99	57.13	45.00	12.00	3.63	7.56

Note: Drawings shown are for reference only. Please contact Baldor for a detailed dimensional drawing of the specific motor you require. Dimensions are in inches. Drawings may also be available from our CD-ROM or website at www.baldor.com.

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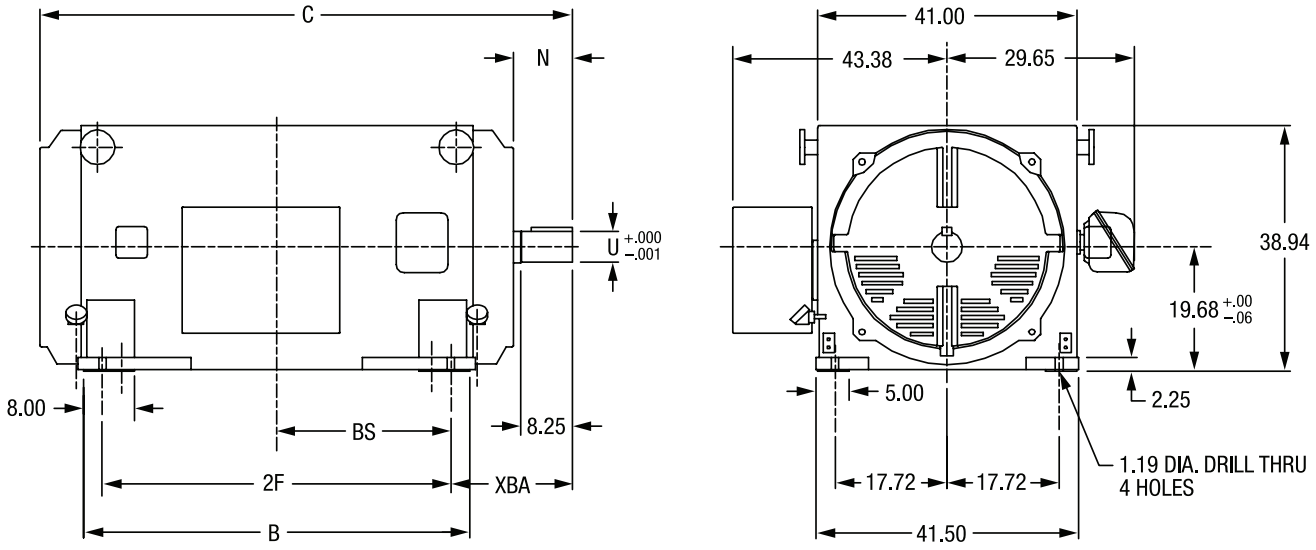
WPI 7111
Drawing 616160-006



SEE DRAWING 616171-004 FOR CONDUIT BOX DIMENSIONS.

Frame	Bearings	C	XBA
7111S	Anti Friction	84.31	19.31
7111S	Sleeve	85.56	20.81

WPI 9500
Drawing 616160-008



SEE DRAWING 616171-005 FOR CONDUIT BOX DIMENSIONS.

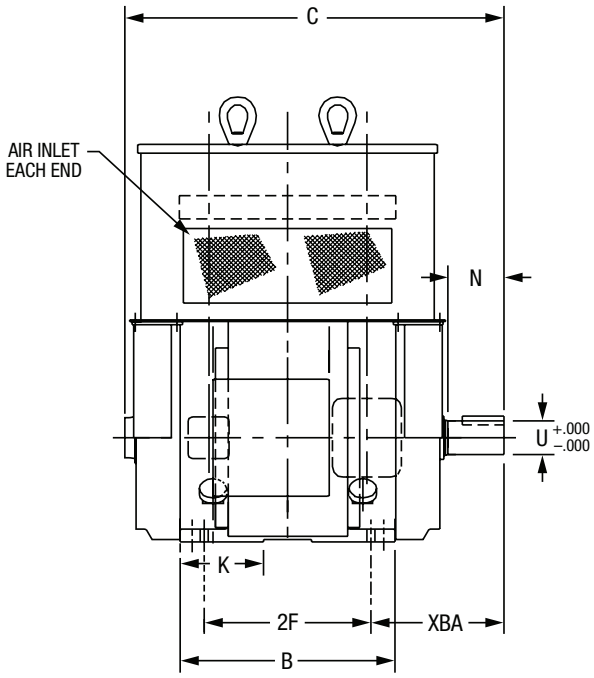
Frame	Bearings	C	B	2F	BS	XBA	N
S9500S	Anti Friction	78.37	55	49.21	24.60	19.25	9.25
L9500S	Anti Friction	84.42	61	55.12	27.56	19.25	9.20
S9500S	Sleeve	79.97	55	49.21	24.60	20.75	10.73
L9500S	Sleeve	86.02	61	55.12	27.56	20.75	10.68

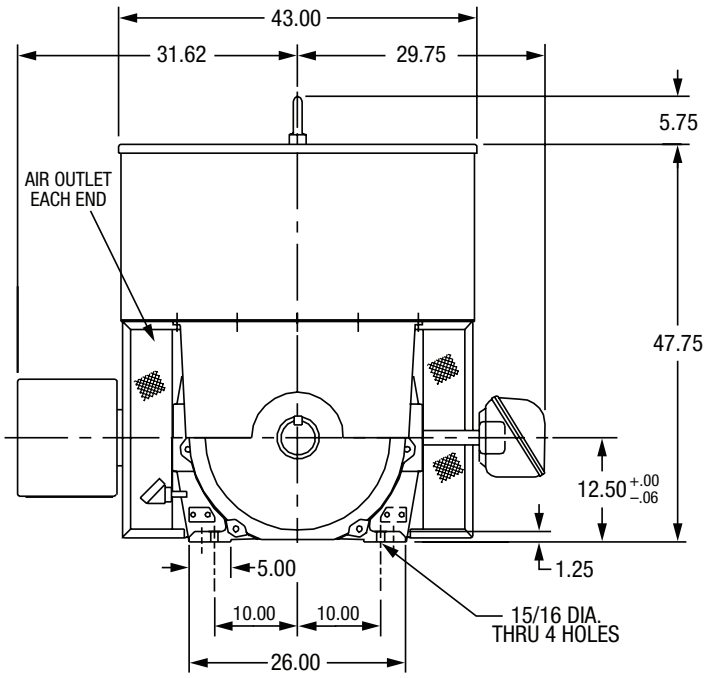
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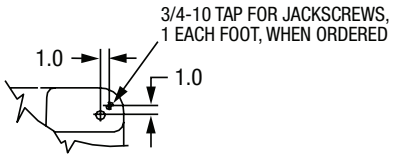
Typical Dimensions *(Only use Certified Prints for Construction & Installation)*

WPII 05000
Drawing 616161-001





SEE DRAWING 616171-11 FOR CONDUIT BOX DIMENSIONS.



BOTTOM VIEW OF FOOT

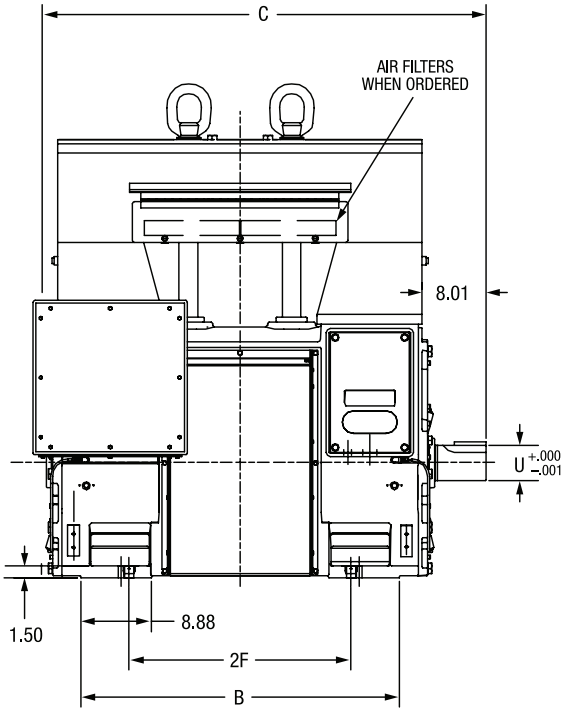
Frame	Bearings	C	B	2F	K	XBA	N	U
5006Y	Anti Friction	49.12	25.75	20.00	10.00	19.50	10.75	3.75
5006Z	Anti Friction	45.12	25.75	20.00	10.00	15.50	6.75	4.13
5006S	Anti Friction	45.12	25.75	20.00	10.00	15.50	6.75	2.38
5008Y	Anti Friction	54.12	30.75	25.00	8.00	19.50	10.75	3.75
5008Z	Anti Friction	54.12	30.75	25.00	8.00	15.50	6.75	4.13
5008S	Anti Friction	54.12	30.75	25.00	8.00	15.50	6.75	2.38
5010Y	Anti Friction	61.20	37.75	32.00	11.50	19.50	10.75	3.75
5010Z	Anti Friction	57.12	37.75	32.00	11.50	15.50	6.75	4.13
5010S	Anti Friction	57.12	37.75	32.00	11.50	15.50	6.75	2.38
5012Y	Anti Friction	69.12	45.75	40.00	11.50	19.50	10.75	3.75
5012Z	Anti Friction	69.12	45.75	40.00	11.50	15.50	6.75	4.13
5006Z	Sleeve	45.25	25.75	20.00	10.00	15.50	5.62	3.63
5006S	Sleeve	45.25	25.75	20.00	10.00	15.50	5.62	2.88
5008Z	Sleeve	50.25	30.75	25.00	8.00	15.50	5.62	3.63
5008S	Sleeve	50.25	30.75	25.00	8.00	15.50	5.62	2.88
5010Z	Sleeve	57.25	37.75	32.00	11.50	15.50	5.62	3.63
5010S	Sleeve	57.25	37.75	32.00	11.50	15.50	5.62	2.88
5012Z	Sleeve	65.25	45.75	40.00	11.50	15.50	5.62	3.63

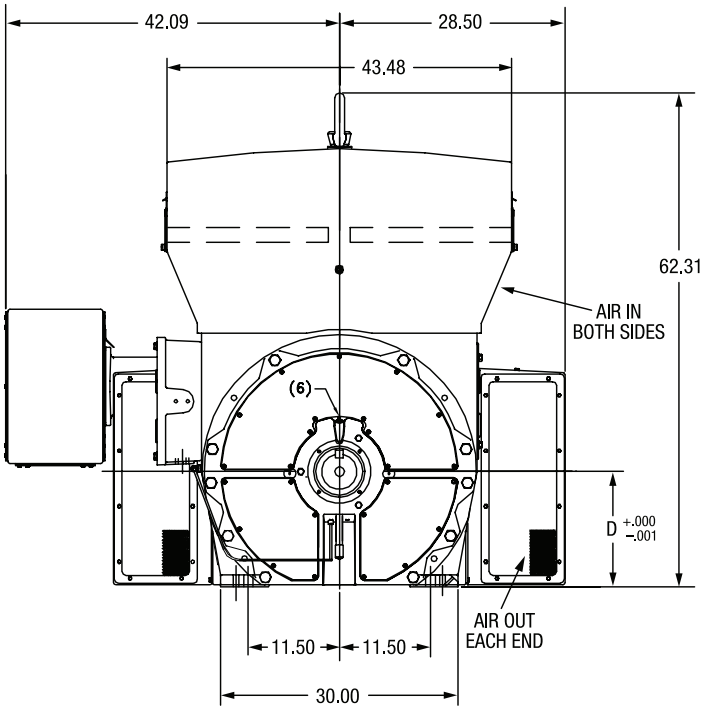
Note: Drawings shown are for reference only. Please contact Baldor for a detailed dimensional drawing of the specific motor you require. Dimensions are in inches. Drawings may also be available from our CD-ROM or website at www.baldor.com.

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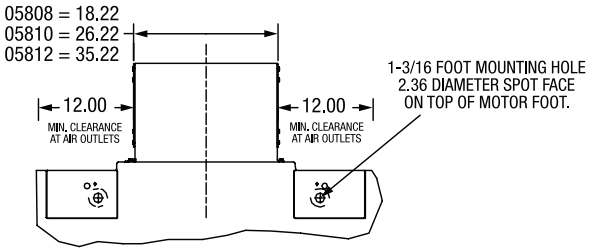
Typical Dimensions *(Only use Certified Prints for Construction & Installation)*

WPII 05800
Drawing 616161-017





SEE DRAWING 616171-026 FOR CONDUIT BOX DIMENSIONS.



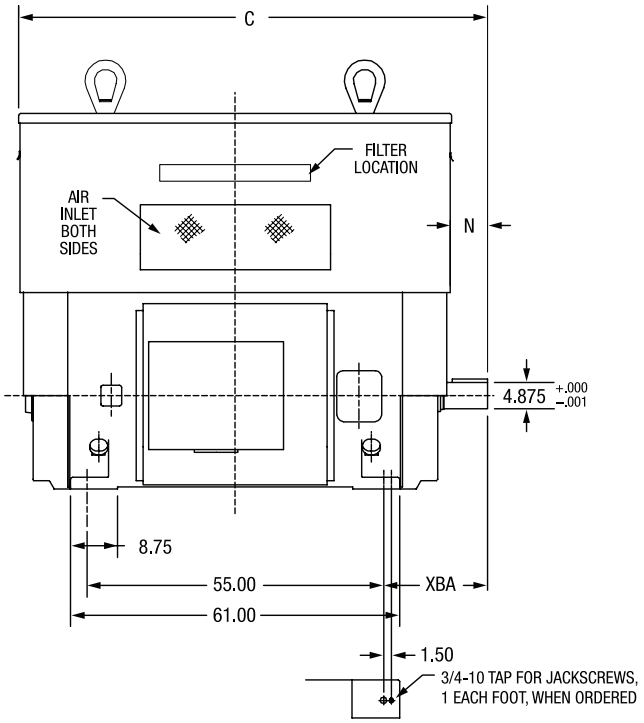
Frame	Bearings	C	B	2F	U
05808	Anti Friction	55.99	40.13	28.00	4.50
05810	Anti Friction	63.99	48.13	36.00	4.50
05812	Anti Friction	72.99	57.13	45.00	4.50
05808	Sleeve	58.50	40.13	28.00	2.88
05810	Sleeve	66.50	48.13	36.00	2.88
05812	Sleeve	75.50	57.13	45.00	2.88

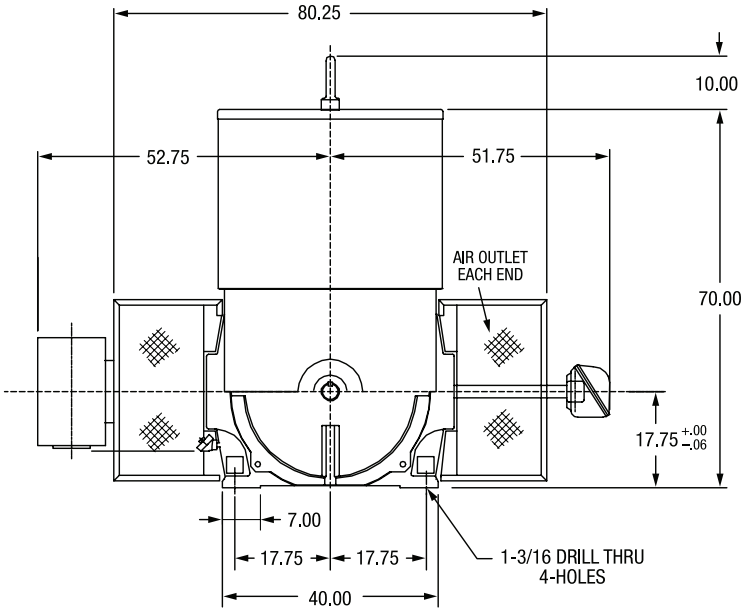
Note: Drawings shown are for reference only. Please contact Baldor for a detailed dimensional drawing of the specific motor you require. Dimensions are in inches. Drawings may also be available from our CD-ROM or website at www.baldor.com.

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Typical Dimensions *(Only use Certified Prints for Construction & Installation)*

WPII 7111
Drawing 616161-005





SEE DRAWING 616171-13 FOR CONDUIT BOX DIMENSIONS.

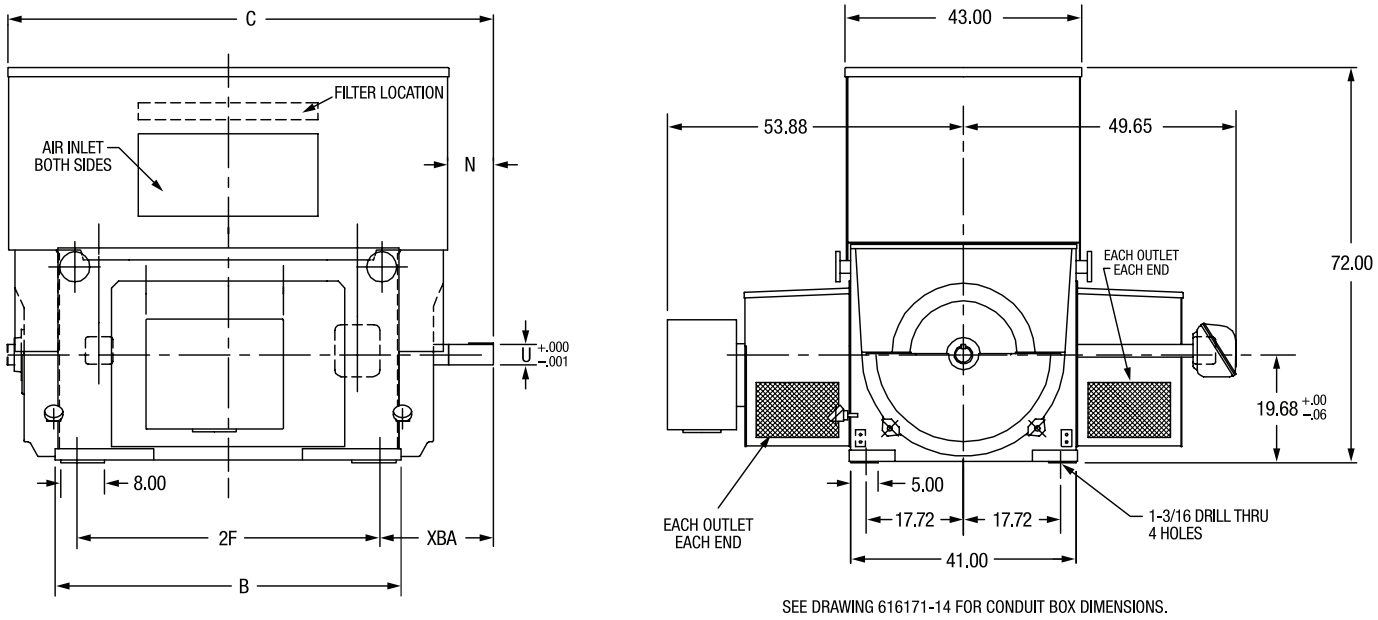
Frame	Bearings	C	N	XBA
7111S	Anti Friction	86.93	6.00	19.31
7111S	Sleeve	88.38	8.13	19.25

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Typical Dimensions *(Only use Certified Prints for Construction & Installation)*

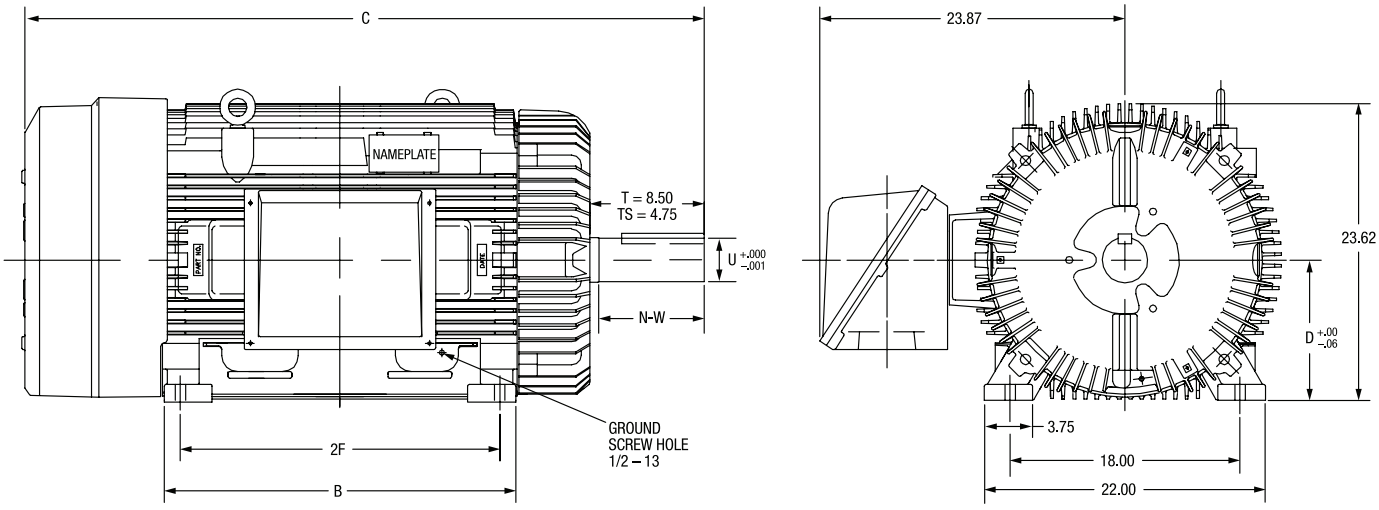
WPII 9500
Drawing 616161-007



SEE DRAWING 616171-14 FOR CONDUIT BOX DIMENSIONS.

Frame	Bearings	C	B	2F	XBA	N	U
S9500S	Anti Friction	80.10	57.00	49.31	19.25	7.60	4.88
L9500S	Anti Friction	86.06	63.00	55.12	19.25	7.56	4.88
S9500S	Sleeve	81.60	57.00	49.21	20.75	9.10	3.63
L9500S	Sleeve	87.56	63.00	55.12	20.75	9.06	3.63

TEFC 447 - 449
Drawing 616524-010



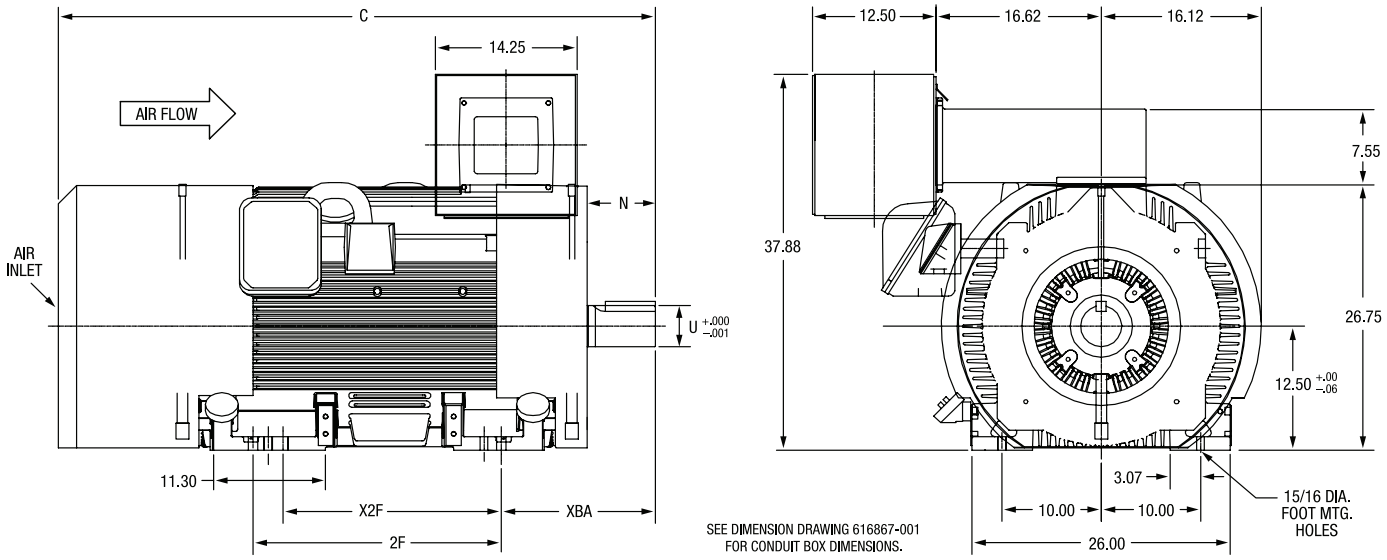
Frame	B	C	2F	U	N - W	D
447T	22.5	48.50	20.00	3.38	8.50	11.00
447TS	22.5	44.65	20.00	2.38	4.75	11.00
449T	27.5	53.40	25.00	3.38	8.50	11.00
449TS	27.5	49.65	25.00	2.28	4.75	11.00

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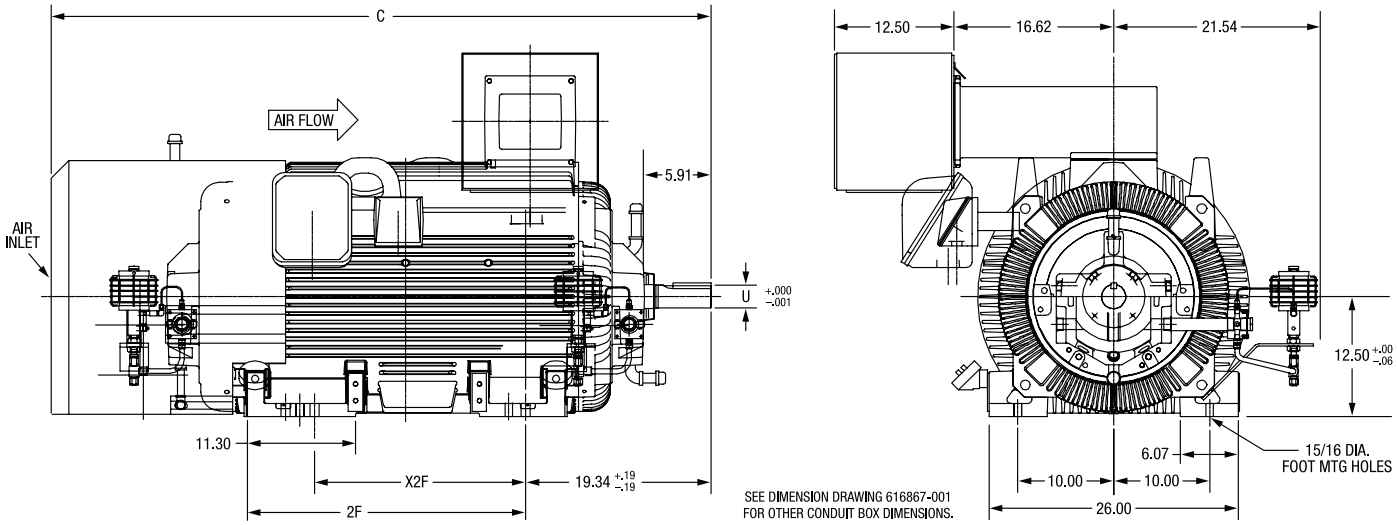
Typical Dimensions *(Only use Certified Prints for Construction & Installation)*

TEFC G5000 – Anti Friction Bearing
Drawing 616868-015



Frame	Bearings	C	Dual Foot Mount Holes		XBA	N	U
			2F	X2F			
G5008S	Anti Friction	60.14	25.00	22.00	15.50	6.84	2.38
G5008Y	Anti Friction	64.14	25.00	22.00	19.50	10.84	4.13
G5010S	Anti Friction	67.14	32.00	28.00	15.50	6.84	2.38
G5010Y	Anti Friction	71.14	32.00	28.00	19.50	10.84	4.13
G5012Y	Anti Friction	79.14	40.00	36.00	19.50	10.84	4.13

TEFC G5000 – Sleeve Bearing
Drawing 616868-038



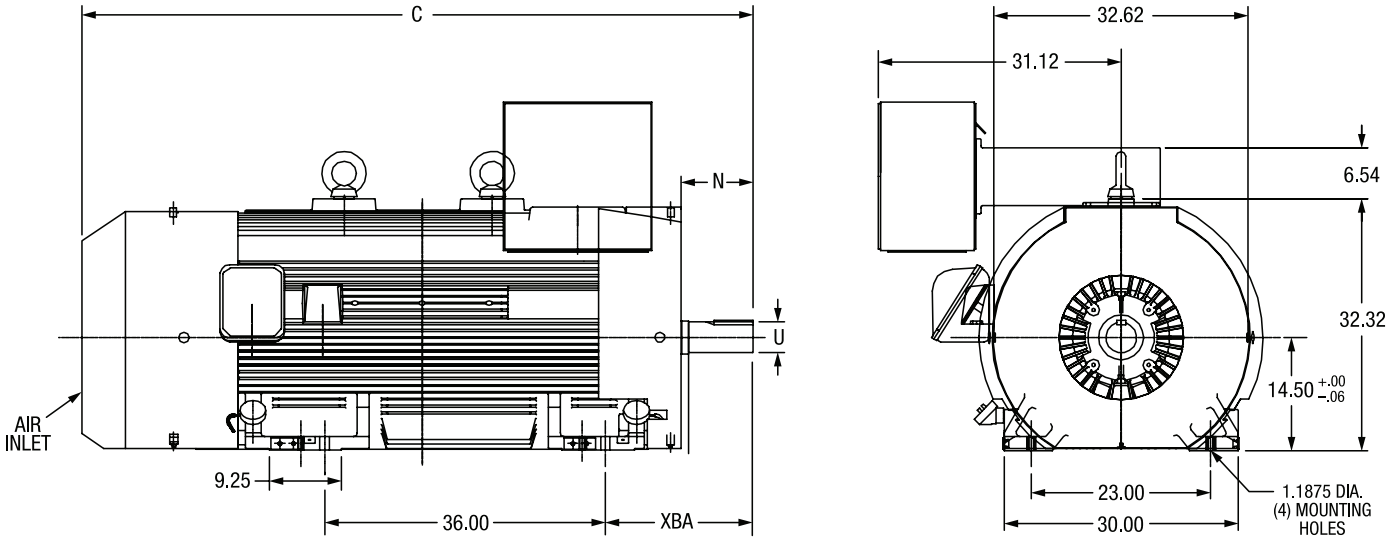
Frame	Bearing	C	Dual Foot Mount Holes		U
			2F	X2F	
G5008S	Sleeve	68.79	25.00	22.00	2.38
G5008Z	Sleeve	68.79	25.00	22.00	3.63
G5010S	Sleeve	75.79	32.00	28.00	2.38
G5010Z	Sleeve	75.79	32.00	28.00	3.63
G5012Z	Sleeve	83.79	40.00	36.00	3.63

Note: Drawings shown are for reference only. Please contact Baldor for a detailed dimensional drawing of the specific motor you require. Dimensions are in inches. Drawings may also be available from our CD-ROM or website at www.baldor.com.

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Typical Dimensions *(Only use Certified Prints for Construction & Installation)*

TEFC G5800
Drawing 616164-024



SEE DRAWING 616171-046 FOR CONDUIT BOX DIMENSIONS.

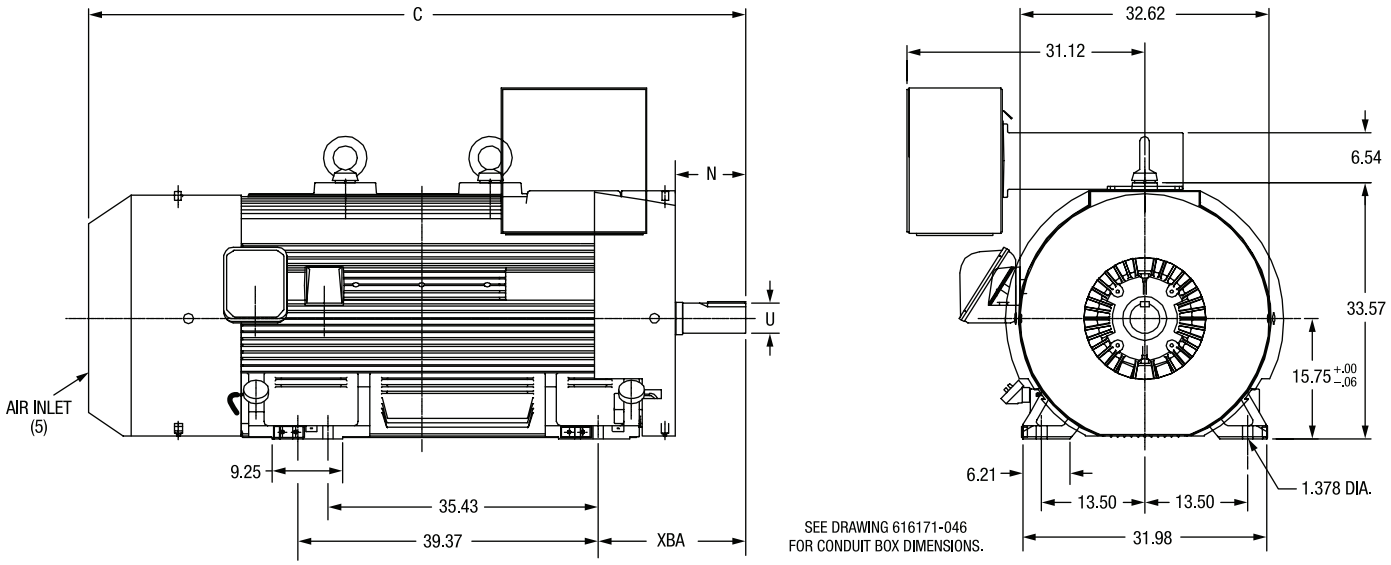
Frame	Bearing	C	N	U	XBA
G5810S	Anti Friction	86.07	9.20	4.13	18.93
G5810L	Anti Friction	90.81	13.94	4.13	23.68
G5810S	Sleeve	88.00	4.5	2.38	17.00
G5810Z	Sleeve	89.00	6.50	3.63	18.93

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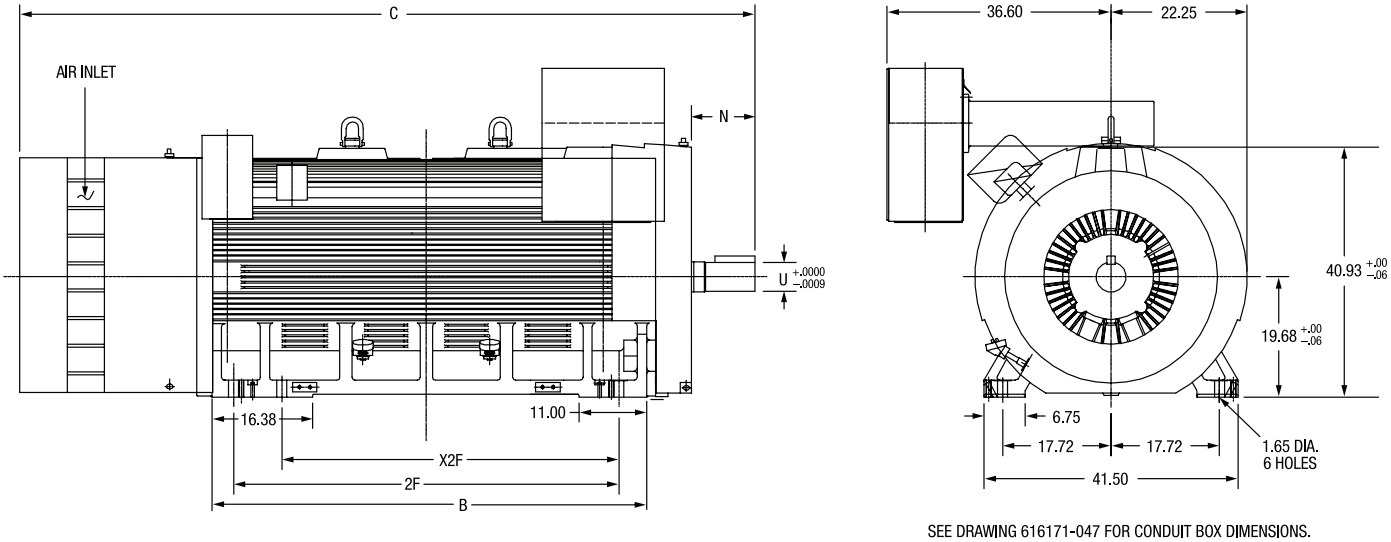
Typical Dimensions *(Only use Certified Prints for Construction & Installation)*

TEFC G40
Drawing 616164-015



Frame	Bearings	C	XBA	N	U
G400S	Anti Friction	83.31	16.53	6.45	2.35
G400Z	Anti Friction	86.07	19.29	9.20	3.94
G400S	Sleeve	89.00	16.53	5.85	2.36
G400Z	Sleeve	91.00	19.29	7.03	3.54

TEFC G50
Drawing 616164-019



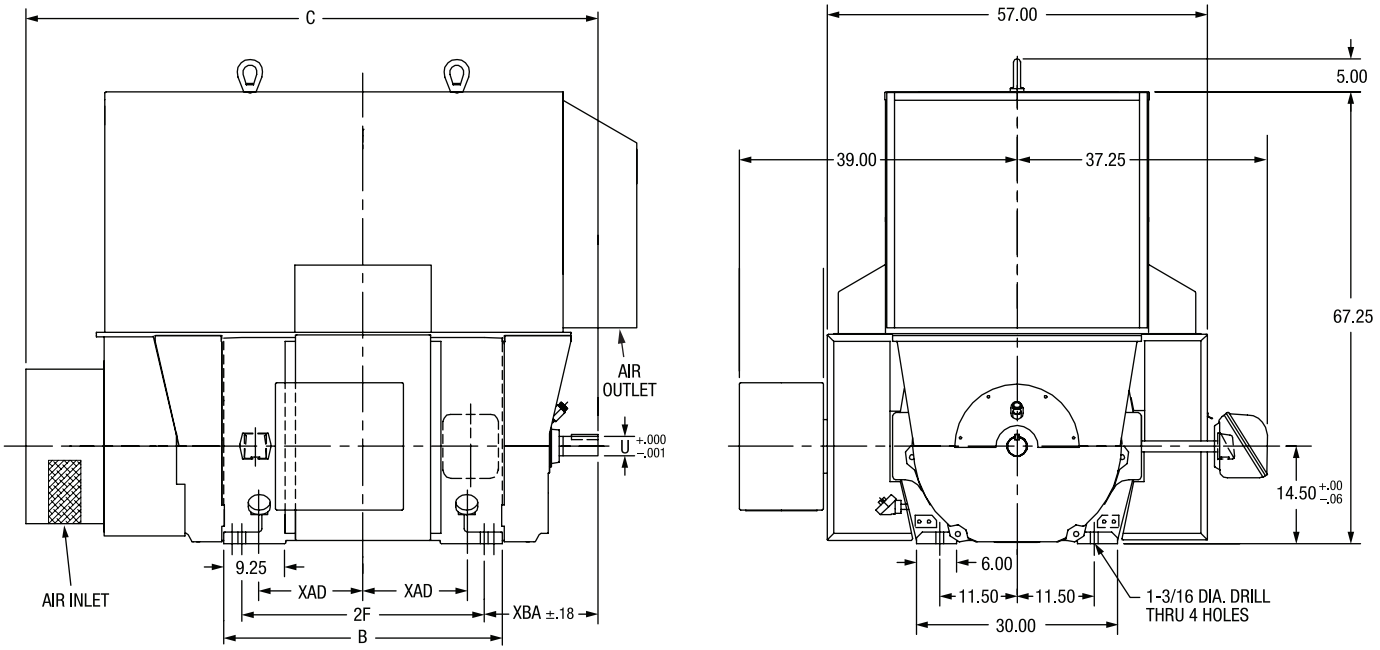
Frame	Bearings	C	B	Dual Foot Mount Holes		N	U
				2F	X2F		
SG50	Anti Friction	106.44	57.25	49.21	39.37	10.38	4.73
MG50	Anti Friction	120.18	71.00	62.99	55.12	10.38	4.73
SG50	Sleeve	108.62	57.25	49.21	39.37	10.71	3.54
MG50	Sleeve	122.37	71.00	62.99	55.12	10.71	3.54

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Typical Dimensions *(Only use Certified Prints for Construction & Installation)*

TEAAC E5800
Drawing 616166-004



SEE DRAWING 616171-051 FOR CONDUIT BOX DIMENSIONS.

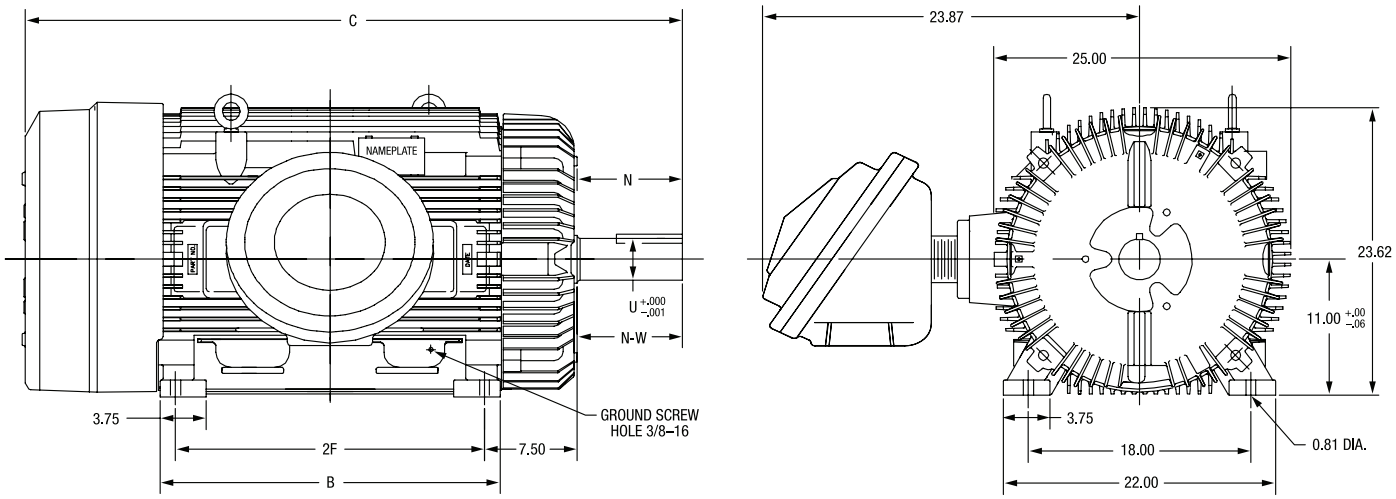
Frame	Bearings	C	B	2F	XAD	U	XBA
E5808S	Anti Friction	78.00	33.50	28.00	11.50	4.50	17.00
E5808S	Anti Friction	78.00	33.50	28.00	11.50	2.38	17.00
E5808	Anti Friction	82.00	33.50	28.00	11.50	4.50	21.00
E5810S	Anti Friction	86.00	41.50	36.00	15.50	4.50	17.00
E5810S	Anti Friction	86.00	41.50	36.00	15.50	2.38	17.00
E5910	Anti Friction	90.00	41.50	36.00	15.50	4.50	21.00
E5912S	Anti Friction	95.00	50.50	45.00	20.00	4.50	17.00
E5808S	Sleeve	78.00	33.50	28.00	11.50	3.63	17.00
E5808S	Sleeve	78.00	33.50	28.00	11.50	2.88	17.00
E5810S	Sleeve	86.00	41.50	36.00	15.50	3.63	17.00
E5810S	Sleeve	86.00	41.50	36.00	15.50	2.88	17.00
E5912S	Sleeve	95.00	50.50	45.00	20.00	4.50	17.00
E5912S	Sleeve	95.00	50.50	45.00	20.00	3.63	17.00

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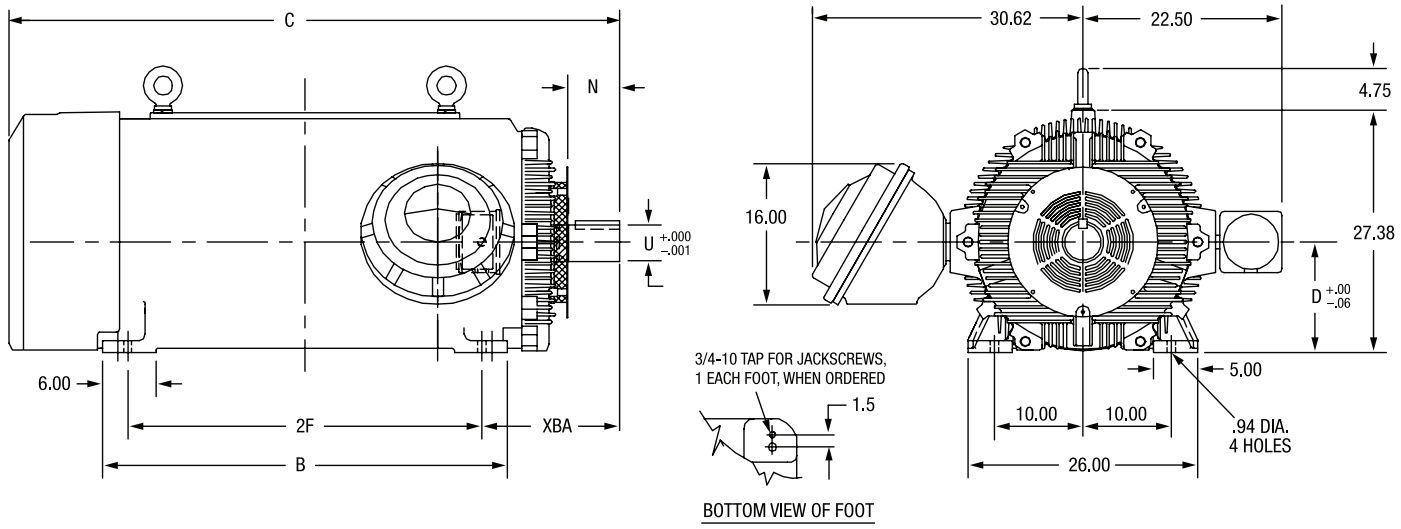
Typical Dimensions *(Only use Certified Prints for Construction & Installation)*

EXPLOSION PROOF DIV I 440
Drawing 616525-035



Frame	C	B	2F	N	N - W	U
447TY	48.40	22.50	20.00	8.50	8.50	3.88
447TZ	44.65	22.50	20.00	4.75	4.75	2.88
449TY	53.40	27.50	25.00	8.50	8.50	3.88
449TZ	49.65	27.50	25.00	4.75	4.75	2.88

EXPLOSION PROOF DIV I 5000/5800
Drawings 616165-002 and 616165-004



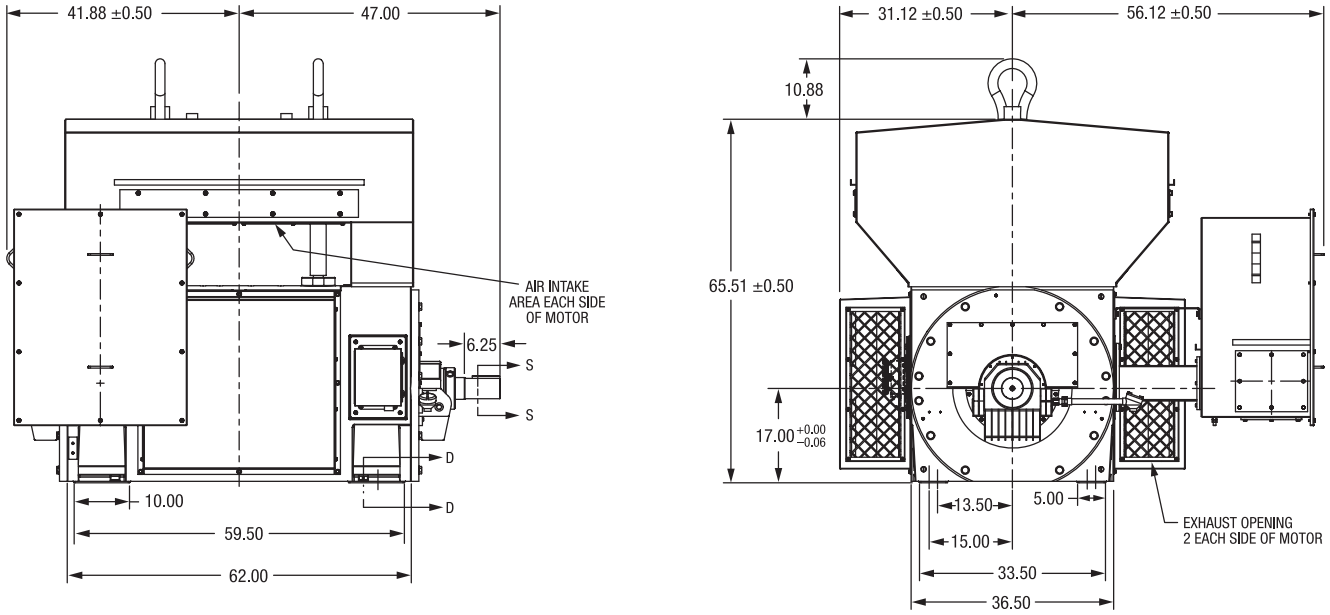
Frame	C	B	2F	U	XBA	D	N
5010Y	65.00	37.75	32.00	3.75	19.50	12.50	10.82
5010Z	61.00	37.75	32.00	4.13	15.50	12.50	6.82
5010S	61.00	37.75	32.00	2.38	15.50	12.50	6.82
5012Y	73.00	45.75	40.00	3.75	19.50	12.50	10.20
5010Z	69.00	37.75	40.00	4.13	15.50	12.50	6.20
5810	87.25	41.50	36.00	4.13	24.25	14.50	11.75
5810S	82.50	41.50	36.00	4.13	19.50	14.50	7.00

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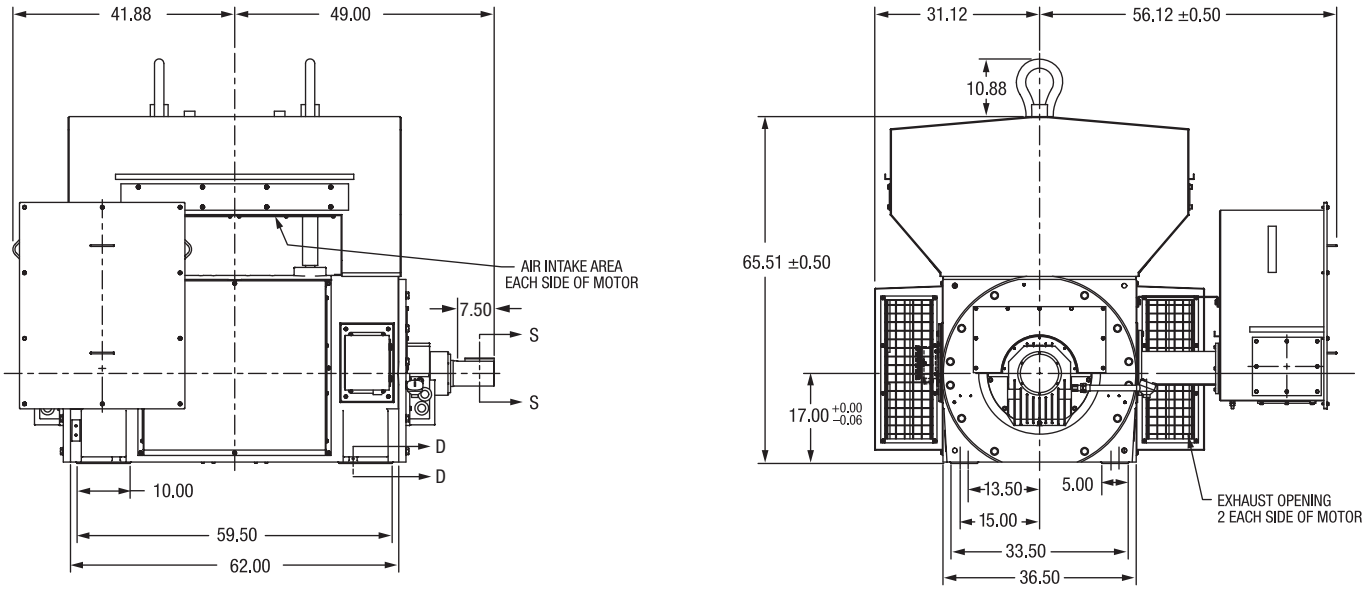
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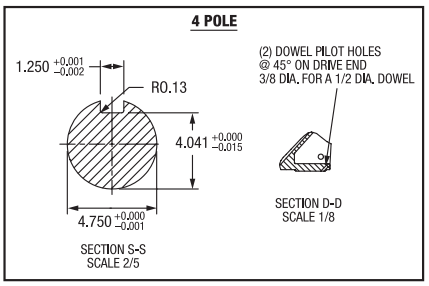
Typical Dimensions *(Only use Certified Prints for Construction & Installation)*

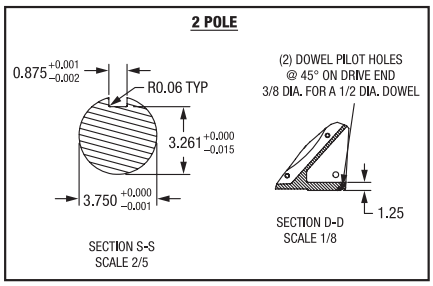
WPII 6811 2-Pole *(See Bottom View below)*
Drawing S101001-020

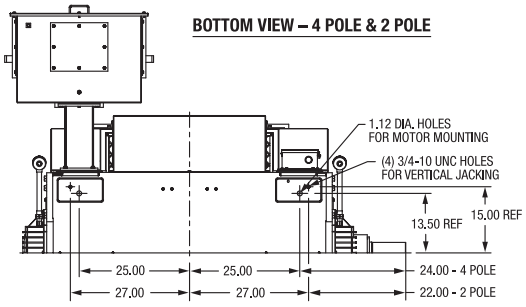


WPII 6811 4-Pole and Slower *(See Bottom View below)*
Drawing S101001-021







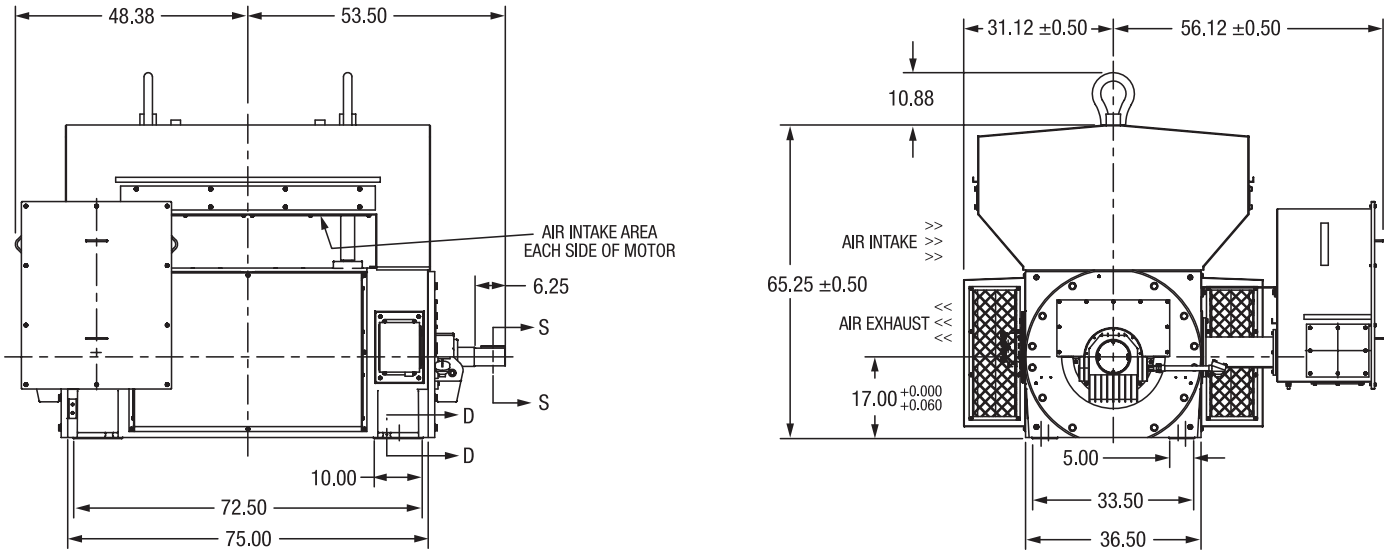


Note: Drawings shown are for reference only. Please contact Baldor for a detailed dimensional drawing of the specific motor you require. Dimensions are in inches. Drawings may also be available from our CD-ROM or website at www.baldor.com.

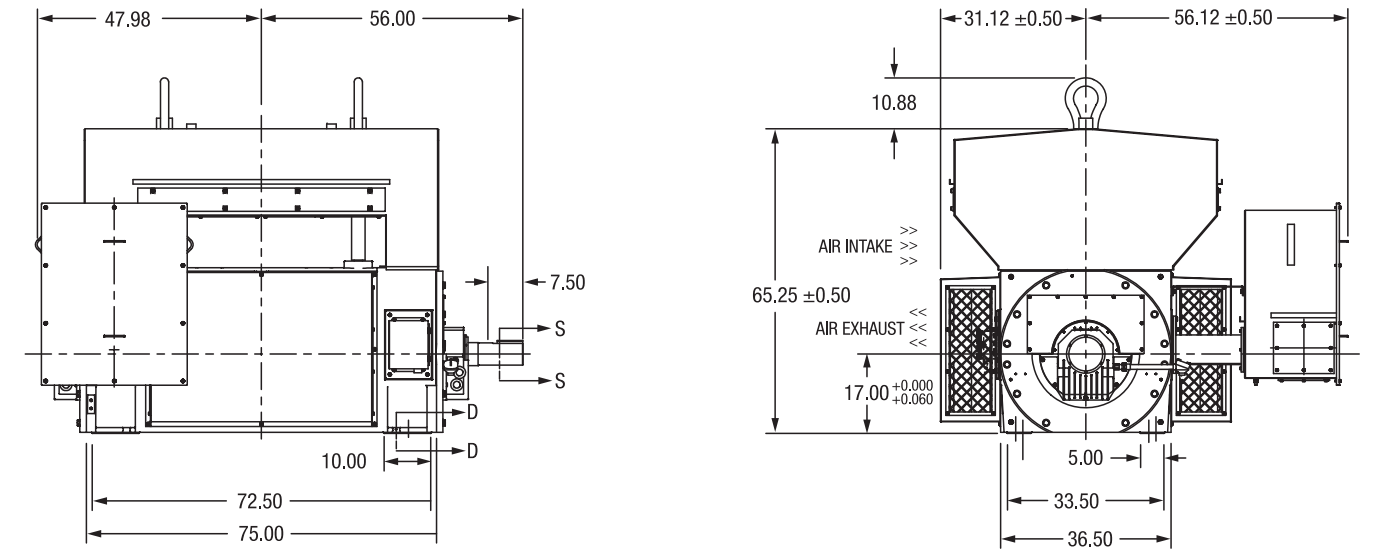
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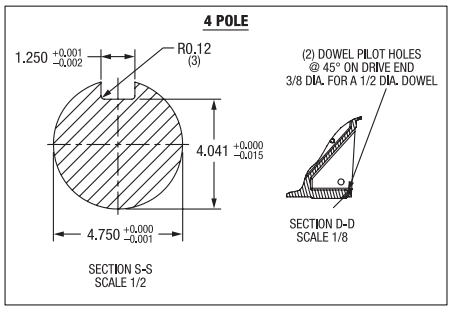
Typical Dimensions *(Only use Certified Prints for Construction & Installation)*

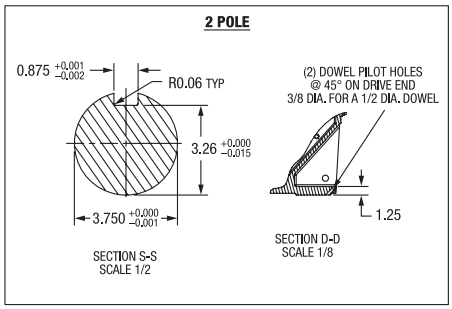
WPII 6813 2-Pole *(See Bottom View below)*
Drawing S101001-022

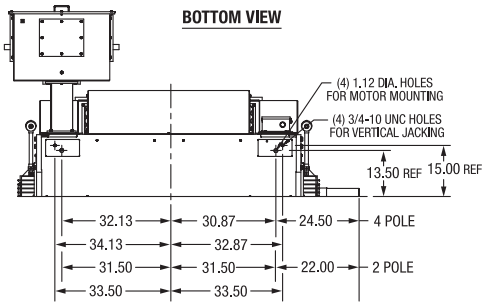


WPII 6813 4-Pole and Slower *(See Bottom View below)*
Drawing S101001-023







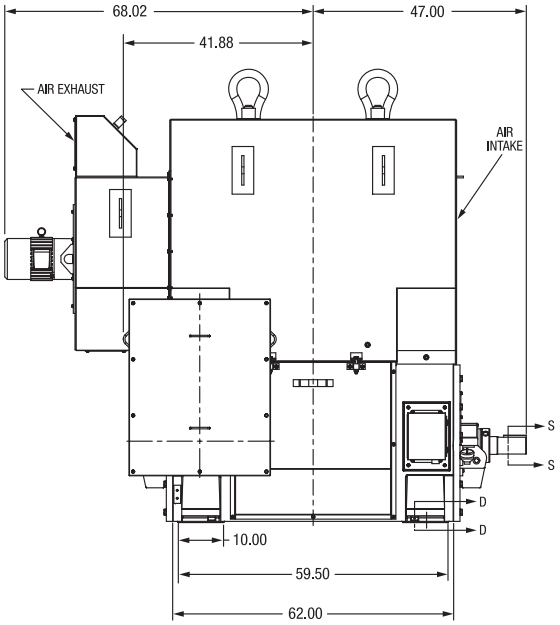


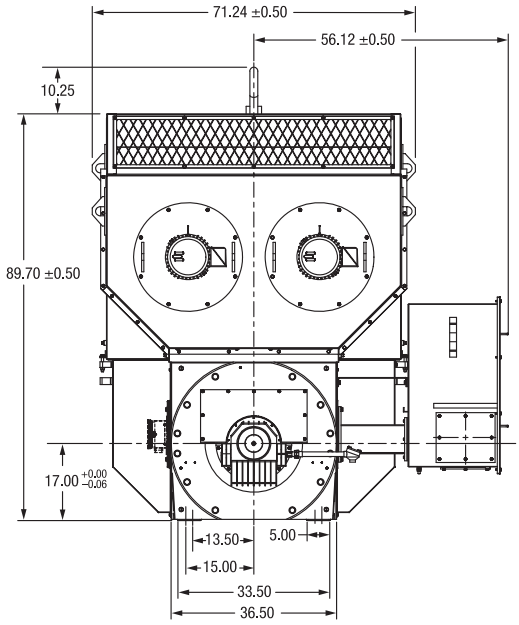
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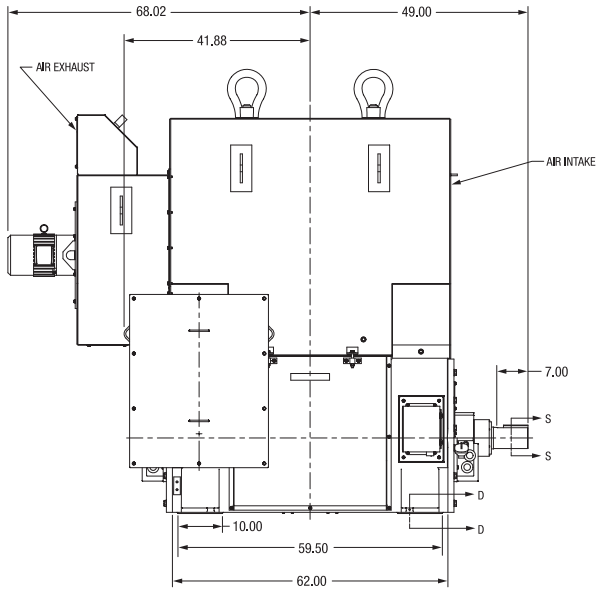
Typical Dimensions *(Only use Certified Prints for Construction & Installation)*

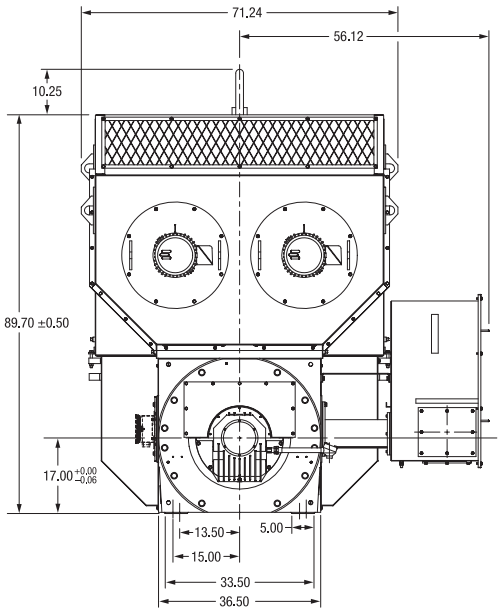
TEAAC 6811 2-Pole *(See Bottom View below)*
Drawing S101001-024

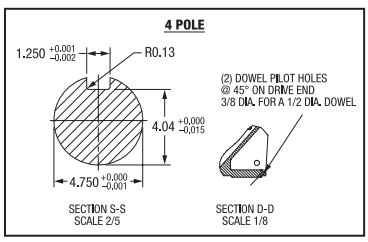


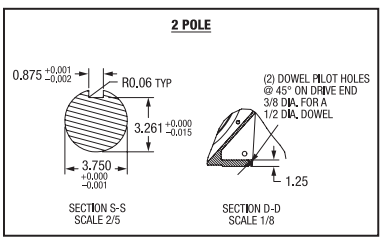


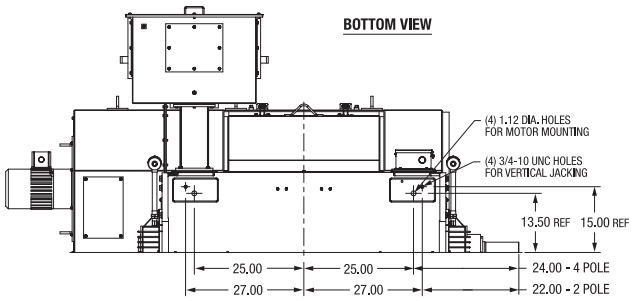
TEAAC 6811 4-Pole and Slower *(See Bottom View below)*
Drawing S101001-025









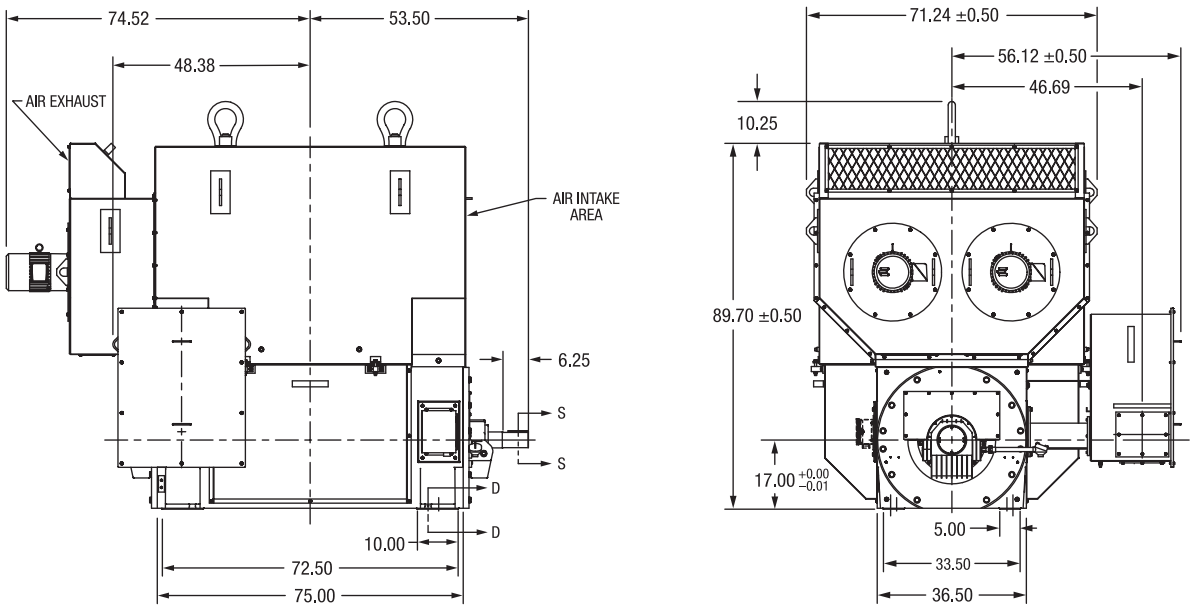


Note: Drawings shown are for reference only. Please contact Baldor for a detailed dimensional drawing of the specific motor you require. Dimensions are in inches. Drawings may also be available from our CD-ROM or website at www.baldor.com.

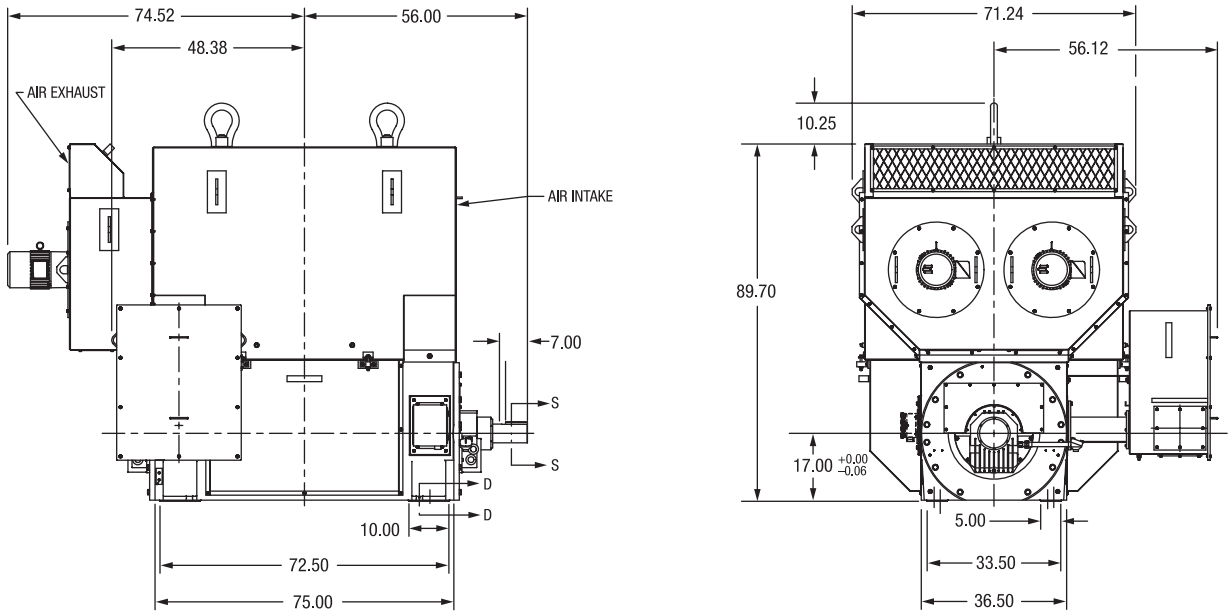
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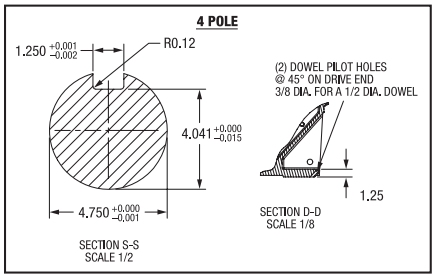
Typical Dimensions *(Only use Certified Prints for Construction & Installation)*

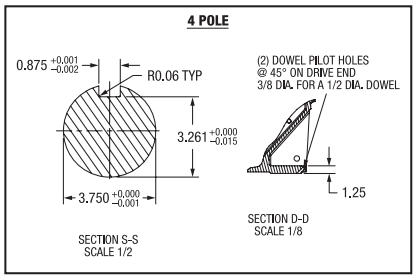
TEAAC 6813 2-Pole *(See Bottom View below)*
Drawing S101001-028

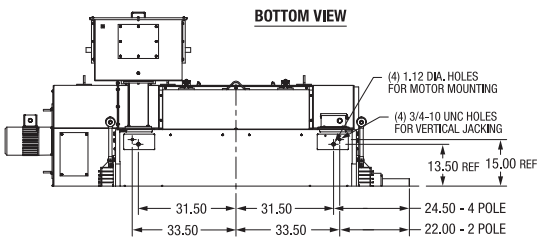


TEAAC 6813 4-Pole and Slower *(See Bottom View below)*
Drawing S101001-029







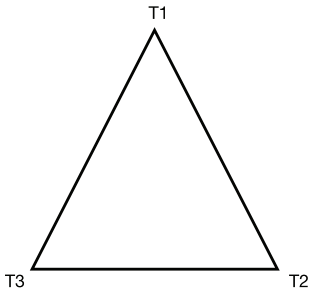


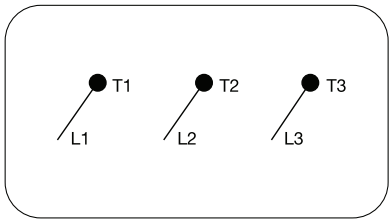
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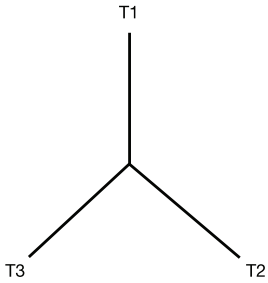
Most Common Main Power Connection Diagrams for Baldor•Reliance Duty Master® Motors

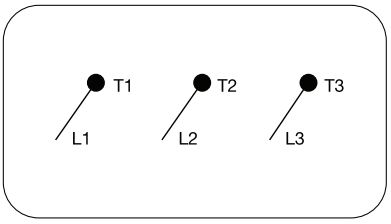
STANDARD 3 LEAD DELTA CONNECTED



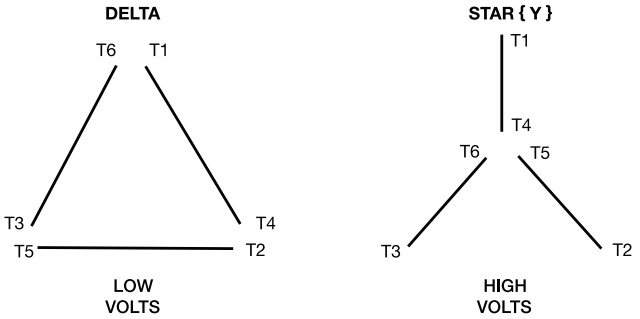


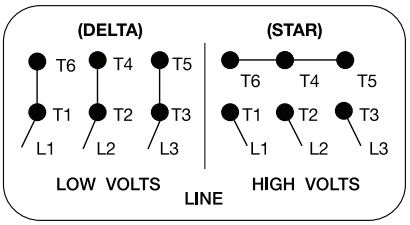
STANDARD 3 LEAD STAR { Y } CONNECTED



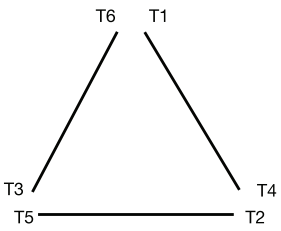


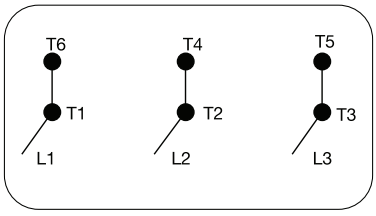
STANDARD 6 LEAD (DELTA / STAR { Y } CONNECTED)
DUAL VOLTAGE (LOW VOLTS / HIGH VOLTS)





STANDARD 6 LEAD DELTA CONNECTED

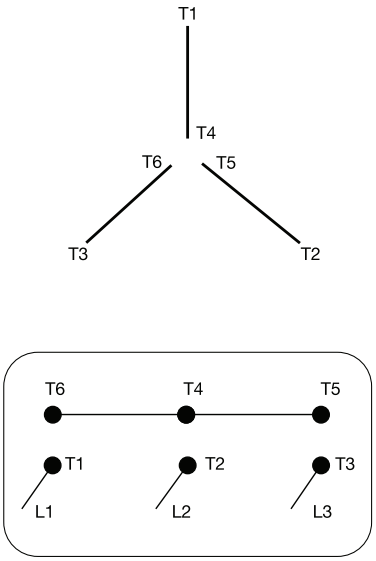




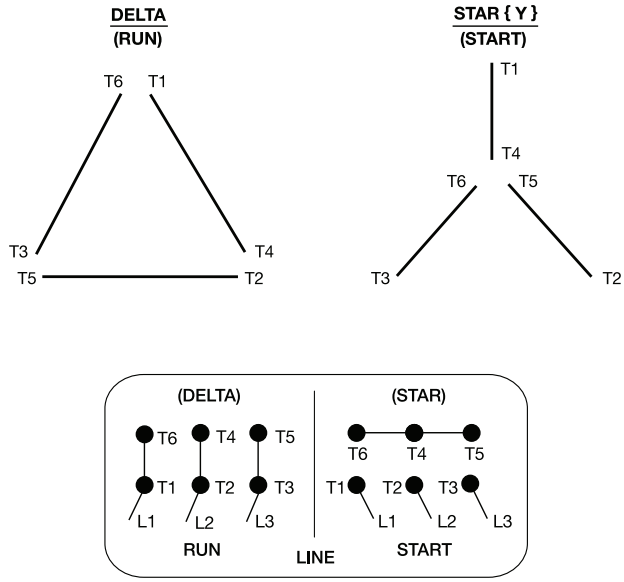
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Most Common Main Power Connection Diagrams for Baldor•Reliance Duty Master® Motors

STANDARD 6 LEAD **STAR { Y } CONNECTED**

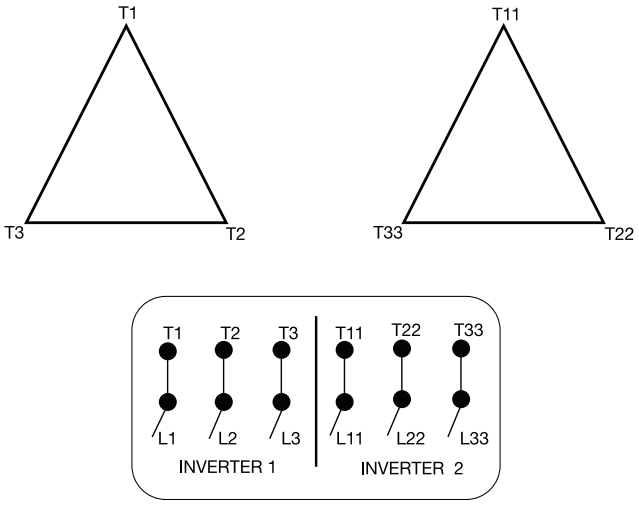


STANDARD 6 LEAD **Y START – DELTA RUN**



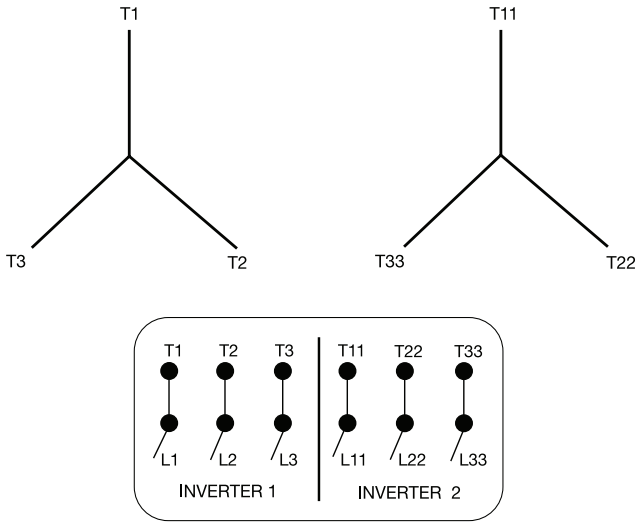
DUAL WINDING FOR PARALLEL INVERTERS DELTA CONNECTED

- BOTH INVERTERS IN PHASE
- BOTH INVERTERS MUST OPERATE AT ALL TIMES WITH IDENTICAL VOLTAGE, FREQUENCY AND POWER OUTPUT



DUAL WINDING FOR PARALLEL INVERTERS WYE CONNECTED

- BOTH INVERTERS IN PHASE
- BOTH INVERTERS MUST OPERATE AT ALL TIMES WITH IDENTICAL VOLTAGE, FREQUENCY AND POWER OUTPUT



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