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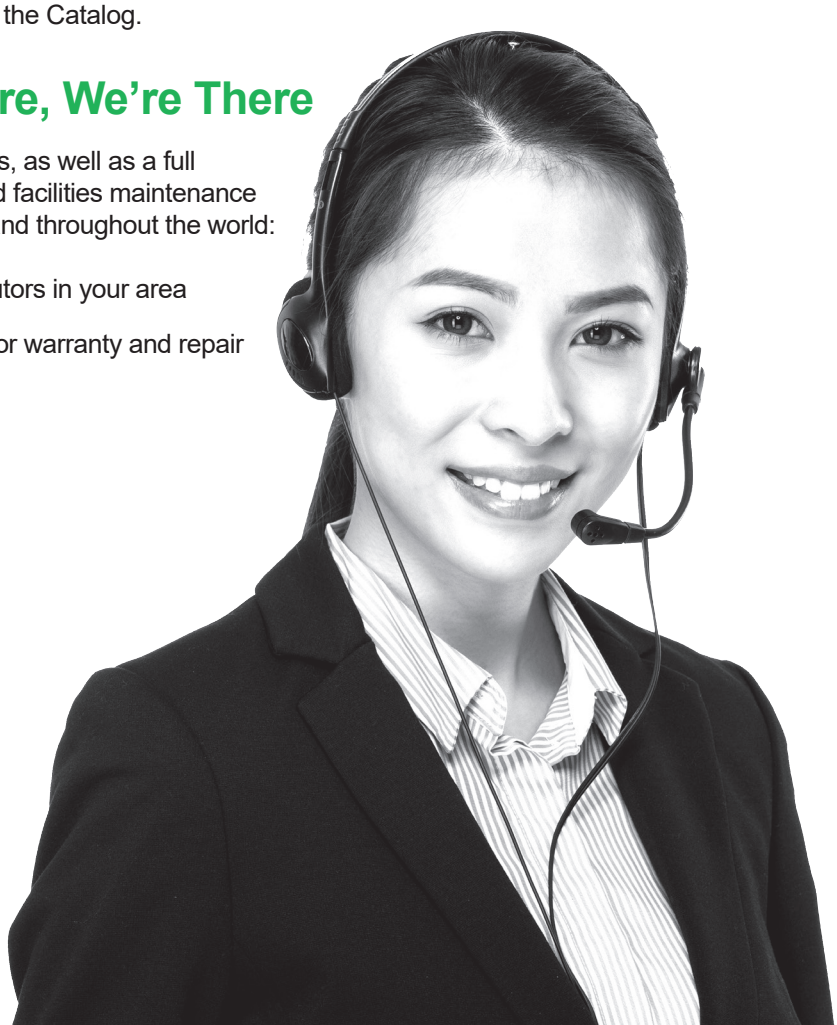
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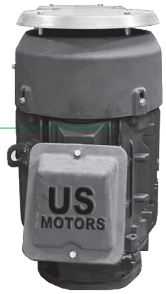
NEPTUNE® Hybrid Variable Speed Motor/Control Category “S” & “J”

218



- Variable Speed
- Simple User Interface
- Easy to install and program
- 1.25 to 2.25 Total Horsepower (THP) Ratings
- 1.25 & 1.65 THP Models are dual voltage designs
- BPM with Integrated Motor, Control, and User Interface
- IPX5, TEFC Enclosure

TEFC CORRO-DUTY® Normal Thrust Vertical P-Base Motors



- 3-200 HP
- 2-pole and 4-pole
- 182HP-447HP
- Premium Efficient Design
- Cast Iron Frame, Brackets and Conduit Box

SynRA™

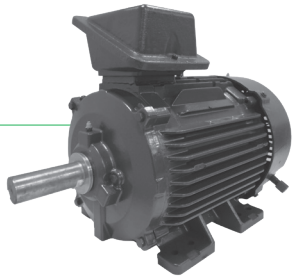
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- High efficiency (IE4/IE5)
- Flat efficiency curve
- Operable on a V/F drive
- Relatively low cost due to high power density
- Small footprint due to high power density
- Leverage current mechanicals/windings as Induction
- Longer bearing life due to reduced shaft current

50HZ IEC WORLD MOTOR

25



- 0.75 kW - 200 kW
- IEC 90 - 280 frame
- IP55 - Cast iron construction
- Division 2: Class I, Group A,B,C,D. Class II, Group F
- Zone 2: Group IIA, IIB IIC, AEx nA
- Built to withstand a variety of severe duty applications

New Product Offerings

60HZ IEC WORLD MOTOR



- 1 HP – 350HP
- IEC 90 - 280 frame
- IP55 - Cast iron construction
- Division 2: Class I, Group A,B,C,D. Class II, Group F
- Zone 2: Group IIA, IIB IIC, AEx nA
- Built to withstand a variety of severe duty applications

STEEL EDGE® 250 Frame

8



- Rolled steel offering expanded to 250 frame
- ¼ HP - 20 HP
- NEMA® 56 – 250 Frame
- IP44 TEFC Steel Frame Construction

Vertical High Thrust WPI Vertical HOLLOSHAFT®

252



- 40-250 HP
- 4-pole
- 324TP-H445TP
- Premium Efficient Design
- SINEWAVE OPTIMIZED® and Inverter Duty Models
- Cast Iron Frame and Brackets

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INVERTER GRADE®
MOJAVE®
MOTORBOSS®
MOTORPRO®
READYLINE®
RESCUE®
RESCUE EcoTech®
SINEWAVE OPTIMIZED®
SynRA™
THERMA SENTRY®†
The Slicker™
TITAN®
UNIMOUNT®
U.S. MOTORS®
VariTough®
WORLD MOTOR®

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ISO9001:2015 Certified

By British Standards Institute of America

CSA Group (CSA®†)

Formerly the Canadian Standards Association

CSA®† sets safety standards for motors and other electrical equipment used in Canada. The motors that meet the CSA®† standards display the CSA®† logo on the nameplate or display the c UL us or c UL (indicating evaluation to CSA standards by UL).

UL LLC (UL®†)

Formerly Underwriters Laboratories, Inc

UL®† is an independent testing organization that sets safety standards for motors and other equipment and U.S. Motors® brand are UL®† component recognized.

United States Department of Energy

All motors within this catalog that are required to comply with the United States Department of Energy's Efficiency regulation 10 CFR Section 431 Subpart B – electric motors, display the compliance certification number CC030A on the motor nameplate. Motors within the scope of 10CFR Section 431 Subpart X meet the requirements.

Conformité Européenne European Community (CE Certification)

The CE marking indicates that the product complies with the essential requirements for health, safety, environmental and consumer protection. The CE mark can only to non-hazardous location motors rated 1000 volts or less, frame 180 through 449, Dripproof and Totally Enclosed Fan Cooled enclosures. Many Nidec Motor Corporation motors can have the CE logo applied. For information on CE logo availability, contact your Nidec Motor Corporation representative.

UL®† & CSA®† Listings

	UL®†		CSA®†	
	IHP	FHP	IHP	FHP
General Construction [1]	E51488	E22922	191252	156060 [4]
Hazardous Location [1]	E10336	E29183		
Thermal Protection [1]	E38946	E10073		
Fire Pump	EX5189 [3]	-	-	-
Electronic Protection [1]	-	E255002	-	-
Energy Efficiency Verified [2]	E51488	-	-	-

*For details on VFD for these motors, refer to Suitability of IHP Motors on Variable Frequency Drives (VFD), page vii.

[1] c UL us or c UL us marked indicating evaluation for UL and CSA standards

[2] Verification for US DOE 10CFR Section 431 Subpart B and Natural Resources Canada C390

[3] Fire Pump certification appears in conjunction with UL and CSA

[4] File number LR2459 or LR63596 may appear on some product

General Information for Integral Horsepower (IHP) Motors on Variable Frequency Drives (VFDs)

Variable Frequency Drives (VFD)

A VFD is a type of controller used to vary the speed of an electric motor. The VFD takes a fixed AC voltage and frequency and allows it to be adjusted in order to get different speeds from the motor. Motor speed can be varied by changing the frequency of the input power waveform. The equation below shows how the frequency affects the speed of a three phase induction motor.

$$\text{Speed} = \frac{120^* \text{ Fundamental Input Frequency}}{\text{Number of Motor Poles}}$$

How does a VFD work?

A VFD takes the fixed frequency and voltage sine wave from the power grid or power station and puts it through a few steps in order to allow the VFD user to vary the frequency and in turn control the motor speed. First it rectifies the AC power into DC Power. Because of this step, a term commonly used instead of VFD is inverter. This only describes one step of what the VFD does to the power waveform. Once rectified into a DC voltage the drive sends the power through a set of transistors or switches. These switches can take the DC waveform and by opening and closing at certain speeds and durations can create an output waveform that mimics the sine wave that is required to drive a three phase electric motor. The output wave form is known as a Pulse Width Modulation (PWM) waveform because the waveform is created by multiple pulses of the switches at short intervals.

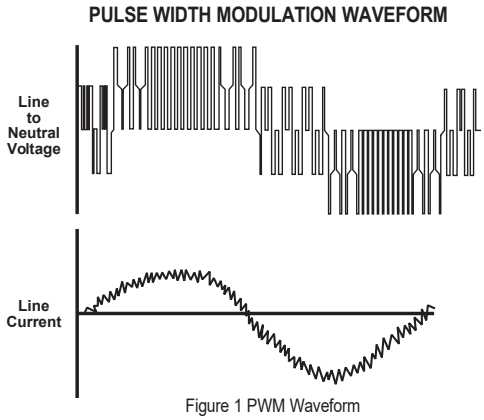


Figure 1 PWM Waveform

What variables should be considered when deciding whether to power a motor with a VFD?

VFD compatibility with motors is complex. As a result, many variables must be considered when determining the suitability of a particular motor for use with a VFD. These variables include:

- Torque requirements (Constant or Variable)
- Speed Range
- Line / System Voltage
- Cable length between the VFD and the motor
- Drive switching (carrier) frequency
- Motor construction
- VFD dv/dt - winding end turn differential in voltage versus differential in time
- High temperatures or high humidity
- Grounding system

Wider speed ranges, higher voltages, higher switching frequencies, insufficient grounding and increased cable lengths all add to the severity of the application and, therefore, the potential for premature motor failure.

How does a VFD affect the motor?

There are many things to consider when a motor is powered using a VFD or PWM power. When a motor is powered by a PWM waveform the motor windings very often see a large differential voltage, either from phase to phase or turn to turn. When the voltage differential becomes large enough it creates a reaction at the molecular level that converts available oxygen into O3. This phenomenon is called partial discharge or corona. This reaction creates energy in the form of light and heat. This energy has a corrosive effect on the varnish used to protect the motor windings. PWM waveforms can also magnify shaft voltages which lead to arcing across the bearing and causing premature bearing failure. Corrective action must be taken to mitigate these issues that arise when using an electric motor with a VFD.

How do I protect the motor?

Nidec Motor Corporation (NMC) has developed specific motor designs to decrease the harmful effects that a VFD can have on a motor. NMC's INVERTER GRADE® insulation system is the first line of defense against corona and phase to phase faults that can be common when a motor is powered using a PWM waveform. The INVERTER GRADE® insulation system is standard on all NMC's Inverter Duty products. Along with the INVERTER GRADE® insulation, thermostats are installed as a minimum protection against overheating the motor. Special consideration must also be given to bearings in motors powered by VFD's. In order to create a low resistance path to ground for built up shaft voltages a shaft grounding device can be used. On larger horsepower motors an insulated bearing system should be used in conjunction with the shaft grounding device when installed, to force the stray shaft voltages to ground. The bearing failures are more prominent on motors with thrust handling bearings. NMC has created an Inverter Duty vertical motor line that not only uses the INVERTER GRADE® insulation system, but that also comes standard with a shaft grounding device. On motors that are 100 HP and greater the thrust bearing is also insulated for additional protection.

What does "Inverter Duty" mean?

An Inverter Duty motor should describe a motor that helps mitigate potential failure modes of a motor that is powered by a VFD. Inverter duty motor windings should be able to withstand the voltage spikes per NEMA®† MG1 Part 31.4.4.2 and protect against overheating when the motor is run at slow speeds. On thrust handling bearings it is apparent that the bearings require additional protection. Inverter Duty vertical motors should have a shaft grounding device to protect the motor bearings from fluting due to voltage discharge through the bearing. On larger motors (100HP and larger) the shaft should also be electrically isolated from the frame in order to aid the shaft grounding ring in discharging the shaft voltages to ground.

*This information applies only to Integral Horsepower (IHP) motors as defined on the Agency Approval page, under UL®† & CSA®† listings where indicated.

Motor / Inverter Compatibility

Thermal Overloads and Single Phase Motors

Motors with thermal overloads installed may not operate properly on a VFD. The current carrying thermal overload is designed for sine wave power. Operation on a VFD may cause nuisance tripping or potentially not protect the motor as would be expected on line power. Thermostats or thermistors installed in the motor and connected properly to the VFD may provide suitable thermal overload protection when operating on a VFD.
(consult codes for installation requirements)

Single phase motors and other fractional horsepower ratings are not designed to be operated on a VFD. Within Nidec Motor Corporation standard products, all motors NEMA® 48 frame (5.5" diameter) and smaller are not suitable for VFD applications. Three phase 56 and 143/145 frame applications should be noted on the catalog price page; or if in doubt ask a Nidec Motor Corporation technical representative for recommendations on compatibility with a VFD.

Slow Speed Motors

Motors with a base design of slower than six poles require special consideration regarding VFD sizing and minimizing harmonic distortion created at the motor terminals due to cable installation characteristics. Additional external PWM waveform filters and shielded motor cables designed for PWM power may be required to provide acceptable motor life. Harmonic distortion on the output waveform should be kept to a minimum level (less than 10%) mismatch impedance.

690V Applications

Motors that are rated for 690VAC and that will be powered by 690VAC PWM VFDs require the use of an external filter to limit peak voltage spikes and the use of an INVERTER GRADE® motor. Where available, an alternative to using an output filter is to upgrade to a 2300V insulation system.

Low Voltage TITAN® Motors

When using 449 frame and larger motors on PWM type VFDs consider the use of an external filter and shielded motor cables designed for PWM power to minimize harmonic distortion and peak voltages at the motor terminals. Harmonic distortion on the output waveform should be kept to a minimum level (less than 10%).

Bearing Currents Related to PWM Waveforms

Protection of the motor bearings from shaft currents caused by common mode voltages is becoming a standard feature on Inverter Duty motor products. Some installations may be prone to a voltage discharge condition through the motor bearings called Electrical Discharge Machining (EDM) or fluting. Vertical HOLLOSHAFT and HOSTILE DUTY® World Motor come with grounding devices installed as standard. EDM damage is related to characteristics of the PWM waveform, and the VFD programming, and installations factors.

Bearing Protection on Inverter Duty Vertical Motors
All U.S. MOTORS® brand "Inverter Duty" vertical products have a shaft grounding system that allows damaging shaft currents a low resistance path to ground. **Bearings on vertical motors fed by VFD power without this bearing protection are not covered under any warranty.** All other bearing failure is covered per NMC's standard warranty. An electric motor repair shop approved to service U.S. MOTORS® brand motors must verify that the cause of the bearing failure was not due to EDM damage.

Guideline For Insulated Anti-Friction Bearings

Bearing insulation is required to prevent circulating shaft currents which can damage bearings. Circulating shaft current can be caused by use of improper power and/or ground cables, improper grounding systems and higher switching frequencies. Finding and correcting the external condition(s) is the responsibility of the system designer or specifying engineer. To prevent circulating shaft current in motors with anti-friction bearings, Nidec Motor Corporation's standard practice is to insulate the non-drive end bearing.

Adjustable Speed Drives produce a common mode voltage condition. To interrupt common mode voltage on induction motors of all sizes, NEMA® MG1-2018 Part 31 recommends insulating both bearings. In cases where both anti-friction bearings are insulated, the system designer or specifying engineer should determine whether to apply one or more of the following options to prevent or reduce shaft currents: sinewave filters, line reactors or mechanical devices, such as shaft grounding or an insulated half coupling. Motors with shaft grounding devices are not suitable for installation in hazardous locations unless housed in an enclosure suitable for the specified Division (or Zone), Class and Group(s).

Multiple Motors on a Single VFD

Special considerations are required when multiple motors are powered from a single VFD unit. Most VFD manufacturers can provide guidelines for proper motor thermal considerations and starting/stopping of motors. Cable runs from the VFD and each motor can create conditions that will cause extra stress on the motor winding. Filters may be required at the motor to provide maximum motor life.

Grounding and Cable Installation Guidelines

Proper output winding and grounding practices can be instrumental in minimizing motor related failures caused by PWM waveform characteristics and installation factors. VFD manufacturers typically provide detailed guidelines on the proper grounding of the motor to the VFD and output cable routing. Cabling manufacturers provide recommended cable types for PWM installations and critical information concerning output wiring impedance and capacitance to ground.

Integrated Motor and Inverter

By integrating the motor and inverter at NMC's manufacturing facility, many of the motor compatibility problems are minimized or eliminated. During the manufacturing process, the motor is matched to the inverter characteristics which ensures the winding temperature and torque levels meet the design specification. Since the inverter output wiring to the motor is nearly eliminated, bearing currents are rarely experienced. When the unit is properly grounded, reducing the output cable lengths in conjunction with an inverter grade insulation system and low factory setting of the switching frequency of the inverter drive, results in low risk of voltage peaks produced by the PWM waveform.

Vertical Motors on VFDs

Vertical motors operated on VFD power present unique conditions that may require consideration by the user or installation engineer:

- Locked rotor and drive tripping caused by non-reversing-ratchet operation at low motor speeds. It is not recommended to operate motors at less than 1/4 of synchronous speed. If slow speeds are required contact NMC engineering.
- Unexpected / unacceptable system vibration and or noise levels caused by the torque pulsation characteristics of the PWM waveform, a system critical frequency falling inside the variable speed range of the process or the added harmonic content of the PWM waveform exciting a system component
- Application related problems related to the controlled acceleration/deceleration and torque of the motor on VFD power and the building of system pressure/ load.
- The impact the reduction of pump speed has on the down thrust reflected to the pump motor and any minimum thrust requirements of the motor bearings
- Water hammer during shutdown damaging the non-reversing ratchet

Humidity and Non-operational Conditions

The possible build-up of condensation inside the motor due to storage in an uncontrolled environment or non-operational periods in an installation, can lead to an increased rate of premature winding or bearing failures when combined with the stresses associated with PWM waveform characteristics. Moisture and condensation in and on the motor winding over time can provide tracking paths to ground, lower the resistance of the motor winding to ground, and lower the Corona Inception Voltage (CIV) level of the winding.

Proper storage and maintenance guidelines are important to minimize the potential of premature failures. Space heaters or trickle voltage heating methods are the common methods for drying out a winding that has low resistance readings. **Damage caused by these factors are not covered by the limited warranty provided for the motor unless appropriate heating methods are properly utilized during non-operational periods and prior to motor start-up.**

NEMA® Application Guide for AC Adjustable Speed Drive Systems: http://www.nema.org/stds/acadjustable.cfm#download

***** This information applies only to Integral Horsepower (IHP) motors as defined on the Agency Approval page, under UL® & CSA® listings where indicated.

Warranty Guidelines for Integral Horsepower (IHP)* Motors on Variable Frequency Drives

Warranty Guidelines

The information in the following section refers to the motor and drive application guidelines and limitations for warranty.

Hazardous Location Motors

Use of a variable frequency drive with the motors in this catalog, intended for use in hazardous locations, is only approved for Division1, Class I, Group D hazardous location motors with a T2B temperature code, with a limitation of 2:1 constant torque or 10:1 variable torque output. **No other stock hazardous location motors are inherently suitable for operation with a variable frequency drive.** If other requirements are needed, including non-listed Division 2, please contact your Nidec Motor Corporation territory manager to conduct an engineering inquiry.

575 Volt Motors

575 volt motors can be applied on Inverters when output filters are used. Contact the drive manufacturer for filter selection and installation requirements.

Applying INVERTER GRADE® Insulated Motors on Variable Frequency Drives (2, 4, 6 pole)

The products within this catalog labeled "Inverter Duty" or "Vector Duty" are considered INVERTER GRADE® insulated motors. INVERTER GRADE® motors exceed the NEMA® MG-1 Part 31 standard. Nidec Motor Corporation provides a three-year limited warranty on all NEMA® frame INVERTER GRADE® insulated motors and allows long cable runs between the motor and the VFD (limited to 400 feet without output filters). Cable distance can be further limited by hot and humid environments and VFD manufacturers cable limits. These motors may be appropriate for certain severe inverter applications or when the factors relating to the end use application are undefined (such as spares).

Nidec Motor Corporation's U.S. Motors® brand is available in the following INVERTER GRADE® insulated motors:

- Inverter Duty NEMA® frame motors good for 20:1 Variable Torque & 5:1 Constant Torque, including Vertical Type RUSI (10:1 V.T.)
- Inverter Duty motors rated for 20:1 Constant Torque
- ACCU-Torq® and Vector Duty Motors with full torque to 0 Speed or 5000:1
- 841 Plus® NEMA® Frame Motors

Applying Premium Efficient motors (that do not have INVERTER GRADE® insulation) on Variable Frequency Drives (2, 4, 6 pole)

Premium efficient motors without INVERTER GRADE insulation meet minimum NEMA® MG-1, Section IV, Part 31.4.4.2. These motors can be used with Variable Frequency Drives (with a reduced warranty period) under the following parameters:

- On NEMA® frame 447 and smaller motors, 20:1 speed rating on variable torque loads & 4:1 speed range on constant torque loads.
- On TITAN® 449 and larger frame motors, 10:1 speed rating on variable torque loads.
- On TITAN® frame motors, inquiry required for suitability on constant torque loads.

Cable distances are for reference only and can be further limited by hot and humid environments (refer to Table 1). Refer to specific VFD manufacturers cable limits. Refer to the Motor/ Inverter Compatibility page for special consideration of vertical motor bearings.

Warranty Period Clarifications and Exceptions

Table 1 - Cable Distances			
Maximum Cable Distance VFD to Motor			
Switching Frequency	460 Volt	230 Volt	380 Volt
3 Khz	127 ft	400 ft	218 ft
6 Khz	90 ft	307 ft	154 ft
9 Khz	73 ft	251 ft	126 ft
12 Khz	64 ft	217 ft	109 ft
15 Khz	57 ft	194 ft	98 ft
20 Khz	49 ft	168 ft	85 ft

Standard Energy Efficient Exclusion

Applying Standard & Energy Efficient Motors on Variable Frequency Drives is not recommended. VFD related failures on standard and energy efficient motors will not be covered under warranty.

Vertical Motor Windings

Premium efficient vertical motors without INVERTER GRADE® insulation that are installed using the criteria described in this document and applied in the correct applications shall have a warranty while powered by a VFD for 12 months from date of installation or 18 months from date of manufacturing whichever comes first. See limited warranty page for horizontal motor warranty periods.

Bearing Exclusion for Thrust Handling Bearings

Bearings used in premium efficient vertical motors, and all thrust handling bearings, that are powered by VFDs without shaft grounding devices or insulated bearings (when required) will not be covered under any warranty for damages caused from being powered by a VFD. All other bearing failure is covered per NMC's standard warranty. An electric motor repair shop approved to service U.S. MOTORS® brand motors must verify that the cause of the bearing failure was not due to Electrical Discharge Machining.

Warranty Exclusion

There is no warranty coverage for bearings on the 400 frame and larger motors used on Variable Frequency Drives, if shaft grounding is applied without insulation on the opposite drive end bearing on horizontal motors, or the upper bearing on vertical motors. An electric motor repair shop approved to service U.S. Motors® brand motors must verify that the cause of the bearing failure was not due to Electrical Discharge Machining

Medium Voltage and Slow Speed Considerations

Motors that are rated above 700 VAC or that are eight pole and slower require special consideration and installation and are not covered under the warranty guidelines in this document. Motors that are rated above 700VAC have special cable length and voltage differential issues that are specific to the VFD type and manufacture. The motor construction and cost may vary dramatically depending on the VFD topology and construction. Contact your NMC representative with VFD manufacturer name and model type for application and motor construction considerations. Motors that are designed eight pole and slower also require special installation and filters per the drive manufacturer.

* This information applies only to Integral Horsepower (IHP) motors as defined on the Agency Approval page, under UL® & CSA® listings where indicated.

Limited Warranty

Refer to usmotors.com website for the most up-to-date warranty information.

All Nidec Motor Corporation products shall carry the limited warranty of 12 months from the date of installation, not to exceed 18 months from date of manufacture as specified in Section 5 of the Nidec Motor Corporation's Terms and Conditions of Sale except those specifically listed below, or noted within individual product family pages within this catalog.

	Installed / Manufactured	Installed / Manufactured
Industrial Motors 140 - 449* Frames	**Sine Wave Power**	**VFD Power**
Epact	18 / 24 months	12 / 18 months
Vertical Standard / Energy (Epact) Efficient	18 / 24 Months	Not Covered
NEMA® Premium	36 / 42 months	24 / 30 months
Vertical NEMA® Premium	36 / 42 Months	12 / 18 Months **
Inverter Duty	36 / 42 months	36 / 42 months
841 PLUS® & 661 PLUS®	60 / 66 months	36 / 42 Months
Auto Duty Premium Efficient	36 / 42 months	24 / 30 months
Single Speed NEMA® Premium Efficient Cooling Tower	36 / 42 months	24 / 30 months
ACCU-Torq®	36 / 42 months	36 / 42 Months
TITAN® Motors - 449 Frame and Larger	**Sine Wave Power**	**VFD Power**
Premium Efficient Low Voltage (Stock Product)	24 / 30 months	18 / 24 months
TITAN® TEFC Medium Voltage (Stock Product)	36 / 42 months	Not Covered
TITAN® 841	24 / 30 Months	18 / 24 months
Inverter Duty	24 / 30 months	24 / 30 months
Vertical Premium	24 / 30 months	12 / 18 Months **

** World Motor horizontal 449 frame models with catalog number beginning with CD (e.g. CD300P2F). All other horizontal & vertical 449 frame models are TITAN 449 frame*

*** Must have Shaft Grounding System for bearings to be covered. See Warranty Guidelines for IHP motors on VFD's for bearing exclusions on vertical motors*

Deferred & Extended Warranty Information

DEFERRED AND EXTENDED WARRANTIES (OPTIONAL WARRANTIES)

Deferred and extended warranties, defined as follows, apply only to 449 frame and larger horizontal and vertical motors, for use in the continental United States only. All optional warranties must be approved in writing by Nidec Motor Corporation. Contact Marketing for Approval.

Deferred Warranty

Nidec Motor Corporation's limited warranty, as set forth in the standard terms and conditions of sale, page xi, shall apply subject to the following modification: for a 5% addition to the net price of the motor ("Net Adder"), the warranty period on the motor will be for a period of one year (or more for applicable products) from that date of initial operation, but not in excess of 60 months from the date of shipment subject to the following conditions:

1. That within thirty days prior to initial operation, a Nidec Motor Corporation (NMC) Service Engineer, or authorized NMC Service Station, be hired by the Buyer at Buyer's expense, to thoroughly inspect the motor to ascertain that the motor is in "as shipped" condition. This inspection will include but not be limited to:
   a. Megger test of winding insulation.
   b. Internal inspection to determine that the winding has not been damaged and that the motor is clean and dry.
   c. Inspection of the bearings to determine they have not been damaged and there is no water in the oil reservoirs.
   d. External inspection to determine that no damage has been made.
2. Make any corrections which this inspection shows to be needed because the motor has been in storage or standing idle. These corrections will be made at Buyer's expense if corrections required are due to causes other than defects in material or workmanship.
3. That an affidavit certifying that the motor has successfully passed the inspection and is in "as shipped" condition be supplied to NMC by Buyer. Failure to provide NMC with the affidavit certifying that the motor has passed inspection and is in "as shipped" condition will result in voiding the warranty.

Extended Warranty

When Buyer's specification requires a warranty period longer than the limited warranty set forth in Nidec Motor Corporation's standard terms and conditions of sale, page xi, the net price of each motor will be increased according to the schedule, which follows. Nidec Motor Corporation may accept an order with up to 60 months coverage.

From Mfg. Date	From Install	Net Adder
30 months	24 months	2%
42 months	36 months	3%
54 months	48 months	5%
66 months	60 months	6%

Terms & Conditions of Sale

Nidec Motor Corporation, referred to herein as the "Seller" and the customer or person or entity purchasing goods ("Goods") from Seller is referred to as the "Buyer." These Terms and Conditions, any price list or schedule, quotation, acknowledgment or invoice from Seller relevant to the sale of the Goods and all documents incorporated by specific reference herein or therein, constitute the complete and exclusive statement of the terms of the agreement governing the sale of Goods by Seller to Buyer. Seller's acceptance of Buyer's purchase order is expressly conditional on Buyer's assent to all of Seller's terms and conditions of sale, including terms and conditions that are different from or additional to the terms and conditions of Buyer's purchase order. Buyer's acceptance of or payment for the Goods will manifest Buyer's assent to these Terms and Conditions. Seller reserves the right in its sole discretion to refuse orders.

1. PRICES: Prices for Goods, whether specified in Seller's price list or schedule, acknowledgment or written quotation, are subject to change without notice. Such prices shall be adjusted to reflect Seller's prices for Goods as in effect at the time of requested shipment date, and each shipment will be invoiced at such prices. All prices are exclusive of taxes, transportation and insurance, which are to be borne by Buyer.

2. TAXES: Any current or future tax or governmental charge (or increase in same) affecting Seller's costs of production, sale, or delivery or shipment, or which Seller is otherwise required to pay or collect in connection with the sale, purchase, delivery, storage, processing, use or consumption of Goods, shall be for Buyer's account and shall be added to the price or billed to Buyer separately, at Seller's election.

3. TERMS OF PAYMENT: Unless otherwise specified by Seller, terms are net thirty (30) days from date of Seller's invoice in U.S. currency. Seller shall have the right, among other remedies, either to terminate this agreement or to suspend further performance under this and/or other agreements with Buyer in the event Buyer fails to make any payment when due, which other agreements Buyer and Seller hereby amend accordingly. Buyer shall be liable for all expenses, including attorneys' fees, relating to the collection of past due amounts. If any payment owed to Seller is not paid when due, it shall bear interest, at a rate to be determined by Seller, which shall not exceed the maximum rate permitted by law, from the date on which it is due until it is paid. Should Buyer's financial responsibility become unsatisfactory to Seller, cash payments or security satisfactory to Seller may be required by Seller for future deliveries and for the Goods theretofore delivered. If such cash payment or security is not provided, in addition to Seller's other rights and remedies, Seller may discontinue deliveries. Buyer hereby grants Seller a security interest in all Goods sold to Buyer by Seller, which security interest shall continue until all such Goods are fully paid for in cash, and Buyer, upon Seller's demand, will execute and deliver to Seller such instruments as Seller requests to protect and perfect such security interest.

4. SHIPMENT AND DELIVERY: While Seller will use all reasonable commercial efforts to maintain the delivery date(s) acknowledged or quoted by Seller, all shipping dates are approximate and not guaranteed. Seller reserves the right to make partial shipments. Seller, at its option, shall not be bound to tender delivery of any Goods for which Buyer has not provided shipping instructions and other required information. If the shipment of the Goods is postponed or delayed by Buyer for any reason, Buyer agrees to reimburse Seller for any and all storage costs and other additional expenses resulting therefrom. Each shipment is F.C.A. Seller's shipping point (Incoterms 2010). In accordance with the foregoing Incoterm, risk of loss for damage and responsibility for the Goods shall pass from Seller to Buyer for each shipment upon delivery to and receipt by carrier at Seller's shipping point and legal title to the shipped Goods shall transfer to Buyer for each shipment as and when risk of loss with respect to such shipment is transferred to Buyer. Any claims for shortages or damages suffered in transit are the responsibility of Buyer and shall be submitted by Buyer directly to the carrier. Shortages or damages must be identified and signed for at the time of delivery.

5. LIMITED WARRANTY: Subject to the limitations of Section 6, Seller warrants that the Goods manufactured by Seller, other than those specifically identified below, will be free from defects in material and workmanship and meet Seller's published specifications at the time of shipment under normal use and regular service and maintenance for a period of twelve (12) months from the date of shipment of the Goods by Seller or eighteen (18) months from the date of manufacture, whichever occurs sooner, unless otherwise specified by Seller in writing. Partial Motors of any kind not fully assembled by Seller shall carry no warranty of any kind, express or implied. Products purchased by Seller from a third party for resale to Buyer ("Resale Products") shall carry only the warranty extended by the original manufacturer. **THE WARRANTY SET FORTH IN THIS SECTION 5 AND THE WARRANTY SET FORTH IN SECTION 7, ARE THE SOLE AND EXCLUSIVE WARRANTIES GIVEN BY SELLER WITH RESPECT TO THE GOODS AND ARE IN LIEU OF AND EXCLUDE ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ARISING BY OPERATION OF LAW OR OTHERWISE, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHETHER OR NOT THE PURPOSE OR USE HAS BEEN DISCLOSED TO SELLER IN SPECIFICATIONS, DRAWINGS OR OTHERWISE, AND WHETHER OR NOT SELLER'S PRODUCTS ARE SPECIFICALLY DESIGNED AND/OR MANUFACTURED BY SELLER FOR BUYER'S USE OR PURPOSE.**

This warranty does not extend to any losses or damages due to misuse, accident, abuse, neglect, normal wear and tear, negligence (other than Seller's), unauthorized modification or alteration, use beyond rated capacity, unsuitable power sources or environmental conditions, improper installation, repair, handling, maintenance or application or any other cause not the fault of Seller. To the extent that Buyer or its agents has supplied specifications, information, representation of operating conditions or other data to Seller in the selection or design of the Goods and the preparation of Seller's quotation, and in the event that actual operating conditions or other conditions differ from those represented by Buyer, any warranties or other provisions contained herein which are affected by such conditions shall be null and void.

If within thirty (30) days after Buyer's discovery of any warranty defects within the warranty period, Buyer notifies Seller thereof in writing, Seller shall, at its option and as Buyer's exclusive remedy, repair, correct or replace or refund the purchase price for, that portion of the Goods found by Seller to be defective. Failure by Buyer to give such written notice within the applicable time period shall be deemed an absolute and unconditional waiver of Buyer's claim for such defects. Seller shall have the right to require the Buyer to deliver the Goods to Seller's designated repair center or manufacturing facility. All costs associated with dismantling, reinstallation and transportation to and from Seller's designated repair center or manufacturing facility and the time and expense of Seller's personnel and representatives for site travel and diagnosis under this warranty shall be borne by the Buyer. Goods repaired or replaced during the warranty period shall be covered by the foregoing warranty for the remainder of the original warranty period or ninety (90) days from the date of shipment, whichever is longer. Buyer assumes all other responsibility for any loss, damage, or injury to persons or property arising out of, connected with, or resulting from the use of Goods, either alone or in combination with other products/components.

Section 5 applies to any entity or person who may buy, acquire or use the Goods, including any entity or person who obtains the Goods from Buyer, and shall be bound by the limitations therein, including Section 6. Buyer agrees to provide such subsequent transferee conspicuous, written notice of the provisions of Sections 5 and 6.

6. LIMITATION OF REMEDY AND LIABILITY: **THE SOLE AND EXCLUSIVE REMEDY FOR BREACH OF ANY WARRANTY HEREUNDER (OTHER THAN THE WARRANTY PROVIDED UNDER SECTION 7) SHALL BE LIMITED TO REPAIR, CORRECTION OR REPLACEMENT, OR REFUND OF THE PURCHASE PRICE UNDER SECTION 5.**

SELLER SHALL NOT BE LIABLE FOR DAMAGES CAUSED BY DELAY IN PERFORMANCE AND THE REMEDIES OF BUYER SET FORTH IN THIS AGREEMENT ARE EXCLUSIVE. IN NO EVENT, REGARDLESS OF THE FORM OF THE CLAIM OR CAUSE OF ACTION (WHETHER BASED IN CONTRACT, INFRINGEMENT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE), SHALL SELLER'S LIABILITY TO BUYER AND/OR ITS CUSTOMERS EXCEED THE PRICE PAID BY BUYER FOR THE SPECIFIC GOODS PROVIDED BY SELLER GIVING RISE TO THE CLAIM OR CAUSE OF ACTION. BUYER AGREES THAT IN NO EVENT SHALL SELLER'S LIABILITY TO BUYER AND/OR ITS CUSTOMERS EXTEND TO INCLUDE INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES. The term "consequential damages" shall include, but not be limited to, loss of anticipated profits, business interruption, loss of use, revenue, reputation and data, costs incurred, including without limitation, for capital, fuel, power and loss or damage to property or equipment.

It is expressly understood that any technical advice furnished by Seller with respect to the use of the Goods is given without charge, and Seller assumes no obligation or liability for the advice given, or results obtained, all such advice being given and accepted at Buyer's risk.

7. PATENTS AND COPYRIGHTS: Subject to the limitations of the second paragraph of Section 6, Seller warrants that the Goods sold, except as are made specifically for Buyer according to Buyer's specifications, do not infringe any valid U.S. patent or copyright in existence as of the date of shipment. This warranty is given upon the condition that Buyer promptly notifies Seller of any claim or suit involving Buyer in which such infringement is alleged and cooperates fully with Seller and permit Seller to control completely the defense, settlement or compromise of any such allegation of infringement. Seller's warranty as to use patents only applies to infringement arising solely out of the inherent operation according to Seller's specifications and instructions (i) of such Goods, or (ii) of any combination of Goods acquired from Seller in a system designed by Seller. In the event such Goods are held to infringe such a U.S. patent or copyright in such suit, and the use of such Goods is enjoined, or in the case of a compromise or settlement by Seller, Seller shall have the right, at its option and expense, to procure for Buyer the right to continue using such Goods, or replace them with non-infringing Goods, or modify same to become non-infringing, or grant Buyer a credit for the depreciated value of such Goods and accept return of them. In the event of the foregoing, Seller may also, at its option, cancel the agreement as to future deliveries of such Goods, without liability. No license or rights in any of Seller's intellectual property associated with the Goods is granted hereby.

In the event that the Goods provided by Seller, as well as any services provided by Seller ("Services"), regardless of whether the Services are at the request or on behalf of Buyer, are part of a project ("Project"), or are performed alone or are related to the provision of Goods, contain or incorporate any work product, including but not limited to concepts, inventions (patentable or otherwise), works, drawings, designs, information, specifications, customizations, optimizations, improvements, documentation, and programs or software, in each case regardless of whether developed by Seller alone or with others, whether completed or work-in-progress, or whether completed at Buyer's request, Buyer's cost, or as part of a Project performed for Buyer (any and all of the foregoing being "Work Product"), Seller owns all right, title, and interest (including, but not limited to, any patents, copyrights, or other intellectual property rights) in such final Work Product, including any and all intermediate Work Product developed as part or in pursuit of the final Work Product, in connection with, embodied in, or encompassed by any Good, Service, or Project deliverable. Seller makes no transfer or license to Buyer of any right, title, or interest in or to the Work Product or in or to any of Seller's intellectual property or proprietary rights.

8. EXCUSE OF PERFORMANCE: Seller shall not be liable for delays in performance or for non-performance due to acts of God; acts of Buyer; war; fire; flood; weather; sabotage; strikes or labor disputes; civil disturbances or riots; governmental requests, restrictions, allocations, laws, regulations, orders or actions; unavailability of or delays in transportation; default of suppliers; or unforeseen circumstances or any events or causes beyond Seller's reasonable control. Deliveries or other performance may be suspended for an appropriate period of time or canceled by Seller upon notice to Buyer in the event of any of the foregoing, but the balance of the agreement shall otherwise remain unaffected as a result of the foregoing.

If Seller determines that its ability to supply the total demand for the Goods, or to obtain material used directly or indirectly in the manufacture of the Goods, is hindered, limited or made impracticable due to causes set forth in the preceding paragraph, Seller may allocate its available supply of the Goods or such material (without obligation to acquire other supplies of any such Goods or material) among itself and its purchasers on such basis as Seller determines to be equitable without liability for any failure of performance which may result therefrom.

9. CANCELLATION: Buyer may cancel orders only upon reasonable advance written notice and upon payment to Seller of Seller's cancellation charges which include, among other things, all costs and expenses incurred, and, to cover commitments made, by the Seller and a reasonable profit thereon. Seller's determination of such termination charges shall be conclusive.

10. CHANGES: Buyer may request changes or additions to the Goods consistent with Seller's specifications and criteria. In the event such changes or additions are accepted by Seller, Seller may revise the price and dates of delivery. Seller reserves the right to change designs and specifications for the Goods without prior notice to Buyer, except with respect to Goods being made to order for Buyer. Seller shall have no obligation to install or make such change in any Goods manufactured prior to the date of such change.

11. NUCLEAR/MEDICAL. UNLESS OTHERWISE AGREED IN WRITING BY SELLER: (i) GOODS SOLD HEREUNDER ARE NOT FOR USE IN CONNECTION WITH ANY NUCLEAR, MEDICAL, LIFE-SUPPORT AND RELATED APPLICATIONS, (ii) Buyer accepts Goods with the foregoing understanding, agrees to communicate the same in writing to any subsequent purchasers or users and (iii) Buyer agrees to defend, indemnify and hold harmless Seller from any claims, losses, suits, judgments and damages, including incidental and consequential damages, arising from such use, whether the cause of action be based in tort, contract or otherwise, including allegations that the Seller's liability is based on negligence or strict liability.

12. ASSIGNMENT: Buyer shall not assign its rights or delegate its duties hereunder or any interest herein without the prior written consent of Seller, and any such assignment, without such consent, shall be void.

13. QUANTITY: Buyer agrees to accept overruns of up to ten percent (10%) of the order on "made-to-order" goods, including parts. Any such additional items shall be priced at the price per item charged for the specific quantity ordered.

14. REPLACEMENT / SERVICE GOODS: Upon the cancellation or fulfillment of this order, Seller will have no obligation to sell and Buyer will have no obligation to purchase the Goods sold hereunder, including, but not limited to, the supply of replacement parts for Goods or Goods for Buyer's consumer service division. Seller is not obligated to sell Buyer or its consumer service divisions Goods: (i) for any fixed period of time after production of the Goods supplied hereunder ceases or after the last date of shipment made under this order: or (ii) at any pre-established price to fulfill Buyer's or its consumer service divisions requirements during or after production of the Goods ceases or after the last date of shipment under this order. Seller shall have the absolute right to revise the price of Goods and the terms of sale and to modify or discontinue the sale of the Goods, and such action shall not form the basis of any claim by Buyer against Seller.

15. TOOLING: Tool, die, and pattern charges, if any, are in addition to the price of the Goods and are due and payable upon completion of the tooling. All such tools, dies and patterns shall be and remain the property of Seller. Charges for tools, dies, and patterns do not convey to Buyer, title, ownership interest in, or rights to possession or removal, or prevent their use by Seller for other purchasers, except as otherwise expressly provided by Seller and Buyer in writing with reference to this provision.

16. INSPECTION/TESTING: Buyer, at its option and expense, may inspect and observe the testing by Seller of the Goods for compliance with Seller's standard test procedures prior to shipment, which inspection and testing shall be conducted at Seller's plant at such reasonable time as is specified by Seller. Any rejection of the Goods must be made promptly by Buyer before shipment. Tests shall be deemed to be satisfactorily completed and the test fully met when the Goods meet Seller's criteria for such procedures.

17. DRAWINGS: Seller's prints and drawings (including without limitation, the underlying technology) furnished by Seller to Buyer in connection with this agreement are the property of Seller and Seller retains all rights, including without limitation, exclusive rights of use, licensing and sale. Possession of such prints or drawings does not convey to Buyer any rights or license, and Buyer shall return all copies (in whatever medium) of such prints or drawings to Seller immediately upon request therefor.

18. EXPORT/IMPORT: Buyer agrees that all applicable import and export control laws, regulations, orders and requirements, including without limitation those of the United States and the European Union, and the jurisdictions in which the Seller and Buyer are established or from which Goods may be supplied, will apply to their receipt and use. In no event shall Buyer use, transfer, release, import, export, Goods in violation of such applicable laws, regulations, orders or requirements.

19. INSURANCE: Seller shall carry adequate product liability and commercial general liability insurance. Seller shall, upon written request from Buyer, furnish Buyer with certificates of insurance confirming the existence of such insurance. Seller does not waive its, or its insurers', rights of subrogation.

20. GENERAL PROVISIONS: These terms and conditions supersede all other communications, negotiations and prior oral or written statements regarding the subject matter of these terms and conditions. No change, modification, rescission, discharge, abandonment, or waiver of these terms and conditions shall be binding upon the Seller unless made in writing and signed on its behalf by a duly authorized representative of Seller. No conditions, usage of trade, course of dealing or performance, understanding or agreement purporting to modify, vary, explain, or supplement these terms and conditions shall be binding unless hereafter made in writing and signed by the party to be bound, and no modification or additional terms shall be applicable to this agreement by Seller's receipt, acknowledgment, or acceptance of purchase orders, shipping instruction forms, or other documentation containing terms at variance with or in addition to those set forth herein. Any such modifications or additional terms are specifically rejected and deemed a material alteration hereof. If this document shall be deemed an acceptance of a prior offer by Buyer, such acceptance is expressly conditional upon Buyer's assent to any additional or different terms set forth herein. No waiver by either party with respect to any breach or default or of any right or remedy, and no course of dealing, shall be deemed to constitute a continuing waiver of any other breach or default or of any other right or remedy, unless such waiver be expressed in writing and signed by the party to be bound. All typographical or clerical errors made by Seller in any quotation, acknowledgment or publication are subject to correction.

The validity, performance, and all other matters relating to the interpretation and effect of this agreement shall be governed by the law of the state of Missouri without regard to its conflicts of laws principles. Buyer and Seller agree that the proper venue for all actions arising in connection herewith shall be only in Missouri and the parties agree to submit to such jurisdiction. No action, regardless of form, arising out of transactions relating to this contract, may be brought by either party more than two (2) years after the cause of action has accrued. The U.N. Convention on Contracts for the International Sales of Goods shall not apply to this agreement.

For the latest version of our term and conditions, please visit: http://nidec-motor.com/nidec_terms.pdf

NEMA®† Catalog Numbering System

C	25	E	( )	2	B	( )	( )	C	R	( )
CORRO-DUTY®	25 HP	Energy Efficient Three Phase		4 Pole	230/460 Volts			C-Face	No Base (Footless)	
1	2	3	4	5	6	7	8	9	10	11

1 PRODUCT FAMILY

8D	841 PLUS®- WORLD MOTOR
8P	841 PLUS®
A	AUTOMOTIVE DUTY
B	INVERTER DUTY BLOWER COOLED
BD	BELT DRIVE FAN
BM	BRAKE MOTOR
BMU	UNIMOUNT® BRAKE MOTOR
BR	BRAKE MOTOR-FCR
C	CORRO-DUTY®
CD	CORRO-DUTY® WORLD MOTOR
CJ	CORRO-DUTY® CCP
CO	CONDENSER FAN
D	ODP GEN. PURPOSE
DC	ODP COMPRESSOR
DD	DIRECT DRIVE FAN
DH	DRY HYDRO
DJ	ODP CCP MOTOR
DR	OPEN SynRA
DRJ	OPEN SynRA CCP
E	ELEVATOR MOTOR - L32 FLANGE
EE	COMMERCIAL PUMP/GEN. PURPOSE
ELT	E-LINE®
EZ	ELEVATOR MOTOR - Z-FLANGE
FD	FARM DUTY
FDU	FARM DUTY - ULTRA HIGH TORQUE
FF	FIREPUMP
FP	FLOOR POLISHER - 1 PHASE
H	HOSTILE DUTY®
HA	HOSTILE DUTY® CAST IRON CONDUIT BOX
HD	HOSTILE DUTY®-WORLD MOTOR
HN	HOSTILE DUTY® NON-VENT
HJ	HOSTILE DUTY® CCP
HO	HIGH THRUST OPEN
HOF	HIGH THRUST OPEN FIREPUMP
HS	HIGH THRUST OPEN - 1 PHASE
HT	HIGH THRUST TEFC
HVW	COOLING TOWER TEAO
HW	COOLING TOWER TEFC
J	CCP
JD	JET PUMP OPEN MOTOR
JDR	JET PUMP ODP SynRA
JT	JET PUMP TEFC MOTOR
JTR	JET PUMP TEFC SynRA
KT	FINISHED GOODS KITS
M	IEC METRIC - SEE IEC CAT #
MHD	IEC HOSTILE DUTY® (WORLD MOTOR)
NO	NORMAL THRUST OPEN
NT	NORMAL THRUST TEFC
PD	PEDESTAL FAN
PF	POWER FACTOR CORR CAPS
PT	POWER TOOL
PW	PRESSURE WASHER
S	UNIMOUNT® ROLLED STEEL
SR	STEEL EDGE SynRA
SRJ	STEEL EDGE SynRA CCP
T	TEFC
TA	TEAO
TN	TENV
U	UNIMOUNT®
UJ	UT CCP
UN	UT TENV
UR	UNIMOUNT SynRA
URJ	UNIMOUNT SynRA CCP
UV	UT TEAO
VB	VECTOR BLOWER COOLED
VN	VECTOR NON-VENT
WD	WASHDOWN DUTY
WDP	WASHDOWN DUTY PAINT FREE
WDS	WASHDOWN DUTY ALL STAINLESS
WI	WEATHER PROTECTED TYPE I
WII	WEATHER PROTECTED TYPE II
X	HAZ. LOCATION DUAL LABEL
XA	HAZ. LOCATION AUTOMOTIVE DUTY
XC	HAZ. LOCATION DUAL LABEL CORRO-DUTY®
XJ	HAZ. LOCATION DUAL LABEL CCP
XS	HAZ. LOCATION DUAL STEEL FRAME
Y	HAZ. LOCATION SINGLE LABEL
YC	HAZ. LOCATION SINGLE LABEL CORRO-DUTY®
YS	HAZ. LOCATION SINGLE LABEL CCP

2 HP

00	SPECIAL
0110	1/10
0112	1/12
18	1/8
16	1/6
14	1/4
13	1/3
12	1/2
34	3/4
1	1
32	1-1/2
2	2
3	3
5	5
7	7-1/2
10	10
15	15
20	20
25	25
30	30
40	40
50	50
60	60
75	75
100	100
125	125
150	150
200	200
etc.	

3 ELECTRICAL

A	PERM SPLIT CAP (1Ø)
B	SPLIT PHASE (1Ø)
C	CAP START (1Ø)
D	CONSTANT TORQ 2WDG (3Ø)
E	ENERGY EFFICIENT (IE2) (3Ø)
F	CONSTANT HP 1WDG (3Ø)
G	CONSTANT HP 2WDG (3Ø)
K	VAR TORQ 2WDG (3Ø)
L	VAR TORQ 1WDG (3Ø)
M	IE4 INVERTER DUTY
N	IE5 INVERTER DUTY
P	PREMIUM EFFICIENT (IE3) (3Ø)
Q	DESIGN C (3Ø)
R	CONSTANT TORQ 1WDG (3Ø)
S	STD EFFICIENT (IE1) (3Ø)
T	INV DUTY CON TORQ (3Ø)
V	INV DUTY VAR TORQ (3Ø)
V	IE3 INVERTER DUTY

DEFAULT MULTI-SPEED IS STD EFF
P&E PRECEDING MULTI-SPD ARE

P	PREM EFF
E	ENERGY EFF

4 SECOND ELECTRICAL

FRACTIONAL & TITAN® WHERE REQUIRED

A	AUTO PROTECT
M	MANUAL PROTECT
R	INSTANT REVERSING GATE & DOOR
T	TWO COMPARTMENT
Y	TITAN® F RISE @ 1.0 SF

5 POLES

1	2P
2	4P
3	6P
4	8P
5	10P
6	12P
7	14P
8	16P
9	4/8P
10	4/6P
12	2/4P
26	4/12P
34	6/8P
36	6/12P

6 VOLTAGES

2	2300
A	230/460 (USABLE AT 208V)
B	230/460
C	460
D	230/460 & 190/380 (USABLE AT 208V)
E	230/460 & 200/400 (USABLE AT 208V)
F	460/380 OR 460/400
G	575
H	200 OR 200-208
I	90
J	115/208-230
K	230 & 208-230
L	110/220
M	220/440 & 208-220/440
N	115
P	115/230
Q	180 (DC) & 190/380 (DC)
R	220/380-440 (Y-DELTA)
S	460 PWS
T	400 (50HZ)
U	380/660 & 400/690 (50HZ)
V	4000
W	2300/4000
X	200/400
Y	230/400 (50HZ)
Z	OTHER

7 FRAME

DEFAULT 56 FRAME
(FRACTIONAL 3Ø & ALL 1Ø)
NEMA®† FRAME ASSIGNMENT
(INTEGRAL HP)
FRACTIONAL 3Ø & ALL 1Ø
4 = 48
42 = 42
14 = 140
18 = 180
21 = 210
H = SPECIAL NEMA®† 56H
INTEGRAL HP 3Ø
F = DOWN FRAME
G = UPFRAME
N = 2 DOWN FRAME
AIR CIRCULATORS/FANS
20 = 20" CIRC. HEAD DIA.
24 = 24" CIRC. HEAD DIA.
30 = 30" CIRC. HEAD DIA.

8 SHAFT (1ST DIGIT)

DEFAULT	T SHAFT; STD 48 OR 56 VSS (VERTICAL)
S	SHORT SHAFT
L	VHS
M	JM
P	JP
J	WEST COAST CCP
T	TM SHAFT
U	JMV
V	JPV
Z	SPECIAL

9 FLANGE (2ND DIGIT)

DEFAULT	NONE (HORZ) P-BASE (VERT)
A	SLEEVE BEARING
B	ROLLER BEARING
C	C-FACE
D	D-FLANGE
K	TCH (SPECIAL 'AK')
Q	SQUARE FLANGE
Y	SPECIAL

10 BASE (3RD DIGIT)

DEFAULT	F-1 RIGID BASE
R	NO BASE (FOOTLESS)
2	F-2 ASSEMBLY
3	F-0 ASSEMBLY
5	W-5 ASSEMBLY
6	W-6 ASSEMBLY
7	YOKE MOUNT
8	W-8 ASSEMBLY
9	RESILIENT BASE
E	P-BASE 10" BD
F	P-BASE 12" BD
G	P-BASE 16.5" BD
H	P-BASE 20" BD
J	P-BASE 24.5" BD

11 SPECIAL FEATURES (4TH DIGIT)

N	NO NRR (SRC) (VERT)
S	SPECIAL MOUNTING
T	TUNGSTEN SEAL (VERT)
X	EXTRA HIGH THRUST (VERT)
-C	CONVERSION
-P	PRODUCTION
ID11	ID300 SIZE 1
ID12	ID300 SIZE 2
ID13	ID300 SIZE 3
ID21	ID302 SIZE 1
ID22	ID302 SIZE 2
ID23	ID302 SIZE 3

IEC Catalog Numbering System

MHD	22	P	( )	2	Y	( )	30	0	1	( )
IEC HOSTILE DUTY (WORLD MOTOR)®	22 KW	IE3 (Premium Efficient) Three Phase		4 Pole	230/400 Volt (50hz)		B5 (Footless)	Default	1 Standard Shaft	
1	2	3	4	5	6	7	8	9	10	11

1 PRODUCT FAMILY

MHD IEC HOSTILE DUTY® (WORLD MOTOR)

2 KW (IEC)

0	SPECIAL
0012	.12
0018	.18
0025	.25
0037	.37
004	.40
0055	.55
0075	.75
011	1.1
015	1.5
018	1.8
022	2.2
03	3
037	3.7
04	4
055	5.5
075	7.5
111	11
15	15
18	18.5
22	22
30	30
37	37
45	45
55	55
75	75
90	90
110	110
132	132
160	160
200	200

3 ELECTRICAL

A	PERM SPLIT CAP (1Ø)
B	SPLIT PHASE (1Ø)
C	CAP START (1Ø)
D	CONSTANT TORQ 2WDG (3Ø)
E	IE2 (ENERGY EFFICIENT) (3Ø)
F	CONSTANT HP 1WDG (3Ø)
G	CONSTANT HP 2WDG (3Ø)
K	VAR TORQ 2WDG (3Ø)
L	VAR TORQ 1WDG (3Ø)
P	IE3 (PREMIUM EFFICIENT) (3Ø)
Q	DESIGN C (3Ø)
R	CONSTANT TORQ 1WDG (3Ø)
S	IE1 (STD EFFICIENT) (3Ø)
T	INV DUTY CON TORQ (3Ø)
V	INV DUTY VAR TORQ (3Ø)

DEFAULT MULTI-SPEED IS STD EFF
P&E PRECEDING MULTI-SPD ARE

P	PREM EFF
E	ENERGY EFF

4 SECOND ELECTRICAL

FRACTIONAL & TITAN® WHERE REQUIRED

A	AUTO PROTECT
M	MANUAL PROTECT
R	INSTANT REVERSING GATE & DOOR
T	TWO COMPARTMENT
Y	TITAN® F RISE @ 1.0 SF

5 POLES

1	2P
2	4P
3	6P
4	8P
5	10P
6	12P
7	14P
8	16P
9	4/8P
10	4/6P
12	2/4P
26	4/12P
34	6/8P
36	6/12P

6 VOLTAGES

2	2300
A	208-230/460 OR 200-230/460
B	230/460
C	460
D	208-230/460 & 190/380
E	230/460 & 190/380 OR 230/460 & 200/4000
F	460/380 OR 460/400
G	575
H	200 OR 200-208
I	90
J	115/208-230
K	230 & 208-230
L	110/220
M	220/440 & 208-220/440
N	115
P	115/230
Q	180 (DC) & 190/380 (DC)
R	220/380-440 (Y-DELTA)
S	460 PWS
T	400 (50HZ)
U	380/660 & 400/690 (50HZ)
V	4000
W	2300/4000
X	200/400
Y	230/400 (50HZ)
Z	OTHER

7 FRAME

INTEGRAL HP 3Ø
F = DOWN FRAME
G = UPFRAME

8 IM XXxx

10	Default*
20	B5 Footed
21	B14 Footed
30	B5 Footless
36	B14 Footless
22	Double B5 Footed
23	Double B14 Footed

*SEGMENT [8], [9], AND [10] BLANK IF IM CODE IS 1001

9 IM xxXx

0	Default*
1	Shaft Down
3	Shaft Up
5	Wall, Shaft Left
6	Wall, Shaft Right
7	Ceiling

*SEGMENT [8], [9], AND [10] BLANK IF IM CODE IS 1001

10 IM xxxX

1	1 STANDARD SHAFT (DEFAULT)*
2	2 SHAFT EXTENSIONS
9	SPECIAL SHAFT

*SEGMENT [8], [9], AND [10] BLANK IF IM CODE IS 1001

11 CONDUIT BOX LOCATION

DEFAULT	TOP SIDE CONDUIT BOX
R	RIGHT SIDE CONDUIT BOX
L	LEFT SIDE CONDUIT BOX

12 SPECIAL

B	ROLLER BEARING

General Purpose Motors

Horsepower: 1 — 500 HP

Frame Sizes: 143 — 5811

Phase: Three Phase

RPM: 3,600, 1,800, 1,200, or 900 RPM

Voltage:
- 200
- 208-230-460
- 230/460
- 460
- 575

Enclosure:
- Open Drip Proof (ODP)
- Totally Enclosed, Fan Cooled (TEFC)

Service Factor: 1.15 SF or greater

Insulation: Class B or F

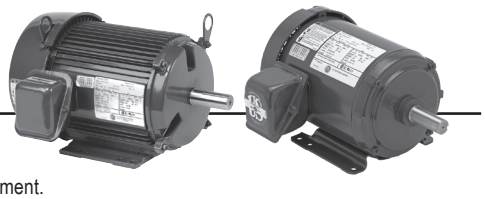
Efficiency: Premium Efficient, NEMA®† Premium Efficient or EPAct

Agency: UL®† Recognized and CSA®† Certified

WORLD MOTOR® Features:
- Both 60 Hz and 50 Hz operations (without derating motor)
- 250 Frame and larger ratings suitable for wye-start delta run or across-the-line starting



General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC)



APPLICATIONS:

For general industrial equipment including fans, blowers, compressors, pumps and direct connected equipment.

FEATURES:

UNIMOUNT® NEMA®† Premium Efficient (Discount Symbol DS-3AL)

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- Shaft Slinger On Pulley End
- Full 50 & 60 Hertz Operating Data On Nameplate (03)
- Full HP @ 50 Hertz
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- Suitable For Wye-Delta Start 250 Frame & Larger
- Conversion Kits: C&D Flanges, Drip Cover and Brakes
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

STEEL EDGE® (Discount Symbol DS-3RST)

- Rolled Steel Frame
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- Shaft Slinger On Pulley End
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- Conversion Kits: Drip Cover and Brakes (140 Frame and Up)
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1/4	1800	208-230/460	56	T14S2A	$224	DS-3RST	1.15	10.9	26	70.0	1.1-1.1/.5	19,103
	1200	208-230/460	56	T14S3A	$294	DS-3RST	1.15	11.9	32	69.9	1.4-1.5/.76	103
1/3	1800	208-230/460	56	T13S2A	$255	DS-3RST	1.15	11.4	26	75.1	1.3-1.3/0.6	103
1/2	3600	208-230/460	48	T12S1D4	$278	DS-3RST	1.00	10.7	19	79.1	1.8-1.8/0.90	103
	3600	208-230/460	56	T12S1A	$278	DS-3RST	1.15	10.9	32	79.0	2.0-2.0/1.0	103
	1800	208-230/460	56	T12S2A	$278	DS-3RST	1.15	11.9	21	12.7	1.8-1.8/0.9	103
	1800	575	56	T12S2G	$278	DS-3RST	1.15	11.9	26	78.4	0.80	103
	1200	208-230/460	56	T12S3A	$357	DS-3RST	1.15	11.9	32	76.7	2.2-2.3/1.1	103
	1200	575	56	T12S3G	$357	DS-3RST	1.15	11.9	32	76.9	0.85	103
3/4	3600	208-230/460	56	T34S1A	$290	DS-3RST	1.15	11.9	32	83.9	2.5-2.5/1.2	103
	3600	575	56	U34P1G	$376	DS-3RST	1.25	12.6	30	80.0	0.8	
	1800	208-230/460	56	T34S2A	$299	DS-3RST	1.15	11.9	23	81.5	3.0-3.0/1.5	103
	1800	575	56	T34S2G	$299	DS-3RST	1.15	11.9	26	81.6	1.1	37,103
	1200	208-230/460	56H	T34S3AH	$422	DS-3RST	1.15	12.9	32	80.4	3.1-3.2/1.6	103
	1200	208-230/460	143T	T34S3B14	$422	DS-3RST	1.15	12.8	32	75.5	3.4-3.5/1.7	103
	1200	575	56	U34P3GH	$532	DS-3RST	1.25	12.6	30	82.5	1.2	
	1200	575	143T	U34P3G14	$532	DS-3RST	1.25	13.0	30	82.5	1.2	
1	3600	208-230/460	56	U1P1D	$404	DS-3RST	1.25	12.6	30	81.5	2.9-2.7/1.4	03
	3600	208-230/460	56	T1P1A	$327	DS-3RST	1.25	11.9	27	77.0	3.4-3.2/1.6	
	3600	575	56	U1P1G	$404	DS-3RST	1.25	12.9	30	80.0	1.1	
	1800	200	143T	U1P2H	$423	DS-3RST	1.25	13.0	30	85.5	3.4	
	1800	208-230/460	56H	T1P2AH	$396	DS-3RST	1.15	12.9	36	85.5	3.3-3.2/1.5	103
	1800	208-230/460	56HZ	T1P2AHZ	$423	DS-3RST	1.25	13.3	36	85.5	3.3-3.2/1.5	
	1800	208-230/460	143T	U1P2D	$423	DS-3RST	1.25	13.1	30	85.5	3.1-3/1.5	03
	1800	575	56H	T1P2GH	$396	DS-3RST	1.15	12.9	33	85.5	1.3	103
	1800	575	143T	U1P2G	$423	DS-3RST	1.25	13.0	30	85.5	1.1	
	1200	200	145T	U1P3H	$575	DS-3RST	1.25	13.1	35	82.5	4.1	
	1200	208-230/460	56H	U1P3DF	$575	DS-3RST	1.25	12.6	30	82.5	3.6-3.5/1.8	
	1200	208-230/460	145T	U1P3D	$575	DS-3RST	1.25	13.1	35	82.5	3.6-3.5/1.8	03
	1200	575	56	U1P3GH	$575	DS-3RST	1.25	12.6	35	82.5	1.4	
	1200	575	145T	U1P3G	$575	DS-3RST	1.25	13.1	35	82.5	1.4	
	900	208-230/460	182T	U1P4D	$1,049	DS-3AL	1.25	12.6	60	75.5	4.5-4.6/2.3	03

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 103 Does not accept brake kit

Note 19 Also rated for 190/380, 220/415 volt 50 Hz at 1.0 Service Factor

Note 37 Q-3 leads for across-the-line start

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC)

(continued)



HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1 1/2	3600	200	143T	U32P1H	$488	DS-3RST	1.25	13.0	30	84.0	4.4	
	3600	208-230/460	56H	T32P1AH	$438	DS-3RST	1.15	13.0	32	84.0	4.9-5.0/2.5	
	3600	208-230/460	143T	U32P1D	$488	DS-3RST	1.25	13.0	30	84.0	4.2-3.9/1.9	03
	3600	575	56	U32P1GH	$488	DS-3RST	1.25	12.6	30	84.0	1.6	
	3600	575	143T	U32P1G	$488	DS-3RST	1.25	13.0	30	84.0	1.6	
	1800	200	145T	U32P2H	$469	DS-3RST	1.25	13.0	35	86.5	4.7	
	1800	208-230/460	56H	T32P2AH	$421	DS-3RST	1.15	12.9	38	86.5	4.5-4.5/2.2	103
	1800	208-230/460	145T	U32P2D	$469	DS-3RST	1.25	13.0	35	86.5	4.5-4.3/2.1	03
	1800	575	56	U32P2GH	$421	DS-3RST	1.25	12.6	35	86.5	1.7	
	1800	575	145T	U32P2G	$469	DS-3RST	1.25	13.0	35	86.5	1.7	
	1200	200	182T	U32P3H	$751	DS-3AL	1.25	16.5	60	87.5	5.4	
	1200	208-230/460	182T	S32P3A	$645	DS-3RST	1.15	14.9	40	87.5	5.1-5.2/2.6	04,16
	1200	208-230/460	182T	U32P3D	$751	DS-3AL	1.25	16.1	60	87.5	4.8-4.7/2.3	
	1200	575	182T	S32P3G	$645	DS-3RST	1.15	14.9	60	87.5	2	04
	1200	575	182T	U32P3G	$751	DS-3AL	1.25	16.1	60	87.5	1.8	
	900	208-230/460	184T	U32P4D	$1,164	DS-3AL	1.25	16.9	70	80.0	6.4-6.4/3.2	03
2	3600	200	145T	U2P1H	$525	DS-3RST	1.25	13.0	35	86.5	5.6	
	3600	208-230/460	56H	T2P1AH	$520	DS-3RST	1.15	12.9	37	85.5	5.1-5.1/2.6	
	3600	208-230/460	145T	U2P1D	$525	DS-3RST	1.25	13.0	35	86.5	5.4-4.9/2.5	03
	3600	575	56H	U2P1GF	$470	DS-3RST	1.25	12.6	30	85.5	2	
	3600	575	145T	U2P1G	$525	DS-3RST	1.25	13.0	35	86.5	2	
	1800	200	145T	U2P2H	$514	DS-3RST	1.25	13.0	35	86.5	6.2	
	1800	208-230/460	56H	T2P2AH	$461	DS-3RST	1.15	10.4	42	86.5	6.2-6.0/3.0	
	1800	208-230/460	56HZ	T2P2AHZ	$514	DS-3RST	1.25	14.0	42	86.5	6.2-6.0/3.0	
	1800	208-230/460	145T	U2P2D	$514	DS-3RST	1.25	13.0	35	86.5	5.9-5.7/2.8	03
	1800	575	56	U2P2GH	$514	DS-3RST	1.25	12.6	35	86.5	2.3	
	1800	575	56	U2P2GHZ	$514	DS-3RST	1.25	12.6	35	86.5	2.3	
	1800	575	145T	U2P2G	$514	DS-3RST	1.25	13.0	35	86.5	2.3	
	1200	208-230/460	184T	S2P3A	$732	DS-3RST	1.15	14.9	74	88.5	6.4-6.2/3.1	04,16
	1200	208-230/460	184T	U2P3D	$836	DS-3AL	1.25	17.3	70	88.5	6.4-6.2/3.1	
	1200	575	184T	S2P3G	$732	DS-3RST	1.15	15.9	60	88.5	2.4	04
	1200	575	184T	U2P3G	$836	DS-3AL	1.25	16.9	70	88.5	2.5	
	900	208-230/460	213T	U2P4D	$1,296	DS-3AL	1.25	18.6	105	84.0	7-6.6/3.3	03
3	3600	200	145T	U3P1HF	$573	DS-3RST	1.25	13.0	35	86.5	8.3	
	3600	200	182T	U3P1H	$767	DS-3AL	1.25	16.5	60	86.5	8.8	
	3600	208-230/460	56HZ	U3P1AHZ	$573	DS-3RST	1.25	13.8	40	86.5	7.9-6.7/3.4	103
	3600	208-230/460	145T	U3P1DF	$573	DS-3RST	1.25	13.0	35	86.5	8.1-7.2/3.6	03
	3600	208-230/460	182T	S3P1A	$605	DS-3RST	1.15	14.9	50	86.5	8.4-7.7/3.9	04,16
	3600	208-230/460	182T	U3P1D	$767	DS-3AL	1.25	16.1	60	87.5	8.4-7.8/3.9	
	3600	575	56	U3P1GHZ	$573	DS-3RST	1.25	12.6	35	86.5	2.8	
	3600	575	145T	U3P1GF	$573	DS-3RST	1.25	13.0	35	86.5	2.9	
	3600	575	182T	S3P1G	$605	DS-3RST	1.15	14.9	60	86.5	3.1	04
	3600	575	182T	U3P1G	$767	DS-3AL	1.25	16.1	60	87.5	3.1	
	1800	200	182T	U3P2H	$678	DS-3AL	1.25	16.5	60	89.5	9	
	1800	208-230/460	182T	S3P2A	$605	DS-3RST	1.15	14.9	85	89.5	8.4-7.8/3.9	04,16
	1800	208-230/460	182T	U3P2D	$678	DS-3AL	1.25	16.5	60	89.5	8.4-7.8/3.9	
	1800	575	182T	S3P2G	$605	DS-3RST	1.15	14.9	60	89.5	3.2	04
	1800	575	182T	U3P2G	$678	DS-3AL	1.25	16.1	60	89.5	3.2	
	1200	200	213T	U3P3H	$1,036	DS-3AL	1.25	19.1	110	89.5	9.9	
	1200	208-230/460	213T	S3P3A	$928	DS-3RST	1.15	18.9	130	89.5	9.2-8.6/4.3	04,16
	1200	208-230/460	213T	U3P3D	$1,036	DS-3AL	1.15	18.6	115	89.5	9.3-8.6/4.3	
	1200	575	213T	S3P3G	$928	DS-3RST	1.15	18.9	105	89.5	3.4	04,16
	1200	575	213T	U3P3G	$1,036	DS-3AL	1.25	18.6	115	89.5	3.4	
	900	208-230/460	215T	U3P4D	$1,606	DS-3AL	1.25	18.6	120	85.5	10.6-10.3/5.2	03

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

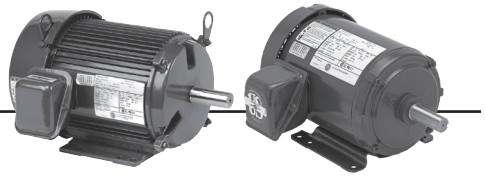
Note 04 On 60 Hertz Sine Wave power

Note 103 Does not accept brake kit

Note 16 Motors marked 208-230/460 volts may not meet all NEMA® (MG-1) performance standards when operated at 208 volts

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC)

(continued)



HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
5	3600	200	184T	U5P1H	$962	DS-3AL	1.25	16.5	70	88.5	14	
	3600	208-230/460	184T	S5P1A	$715	DS-3RST	1.15	15.9	65	88.5	13.6-12.1/6.1	04,16
	3600	208-230/460	184T	U5P1D	$962	DS-3AL	1.15	16.9	75	88.5	13.4-12.2/6.1	
	3600	575	184T	S5P1G	$715	DS-3RST	1.15	15.9	70	88.5	4.9	04
	3600	575	184T	U5P1G	$962	DS-3AL	1.25	16.1	75	88.5	4.9	
	1800	200	184T	U5P2H	$788	DS-3AL	1.25	17.3	80	89.5	14.2	
	1800	208-230/460	184T	S5P2A	$715	DS-3RST	1.15	15.9	72	89.5	13.5-12.5/6.2	04,16
	1800	208-230/460	184T	U5P2D	$788	DS-3AL	1.25	17.3	70	90.2	13.6-12.3/6.2	
	1800	575	184T	S5P2G	$715	DS-3RST	1.15	15.9	70	89.5	4.9	04
	1800	575	184T	U5P2G	$788	DS-3AL	1.25	16.1	70	89.5	5.1	
	1200	200	215T	U5P3H	$1,483	DS-3AL	1.25	20.6	135	89.5	15.9	
	1200	208-230/460	215T	S5P3A	$1,155	DS-3RST	1.15	18.9	135	89.5	15-14.1/7	04,16
	1200	208-230/460	215T	U5P3D	$1,483	DS-3AL	1.25	20.1	140	90.2	15-14/7	
	1200	575	215T	S5P3G	$1,155	DS-3RST	1.15	18.9	120	89.5	5.6	04,16
	1200	575	215T	U5P3G	$1,483	DS-3AL	1.25	20.1	140	89.5	5.6	
	900	208-230/460	254T	U5P4D	$2,299	DS-3AL	1.25	23.9	180	86.5	15.9-14.8/7.4	03
7 1/2	3600	200	213T	U7P1H	$1,192	DS-3AL	1.25	19.1	105	90.2	20.6	
	3600	208-230/460	184T	U7P1AF	$1,074	DS-3AL	1.25	16.5	70	89.5	19.9-17.7/8.9	
	3600	208-230/460	213T	S7P1A	$942	DS-3RST	1.15	18.9	114	89.5	19.9-17.9/9	04,16
	3600	208-230/460	213T	U7P1D	$1,192	DS-3AL	1.25	18.6	105	91.0	19.9-17.8/8.9	03
	3600	575	184T	U7P1GF	$1,074	DS-3AL	1.25	16.1	70	89.5	7.1	
	3600	575	213T	S7P1G	$942	DS-3RST	1.15	18.9	105	89.5	7.2	04,16
	3600	575	213T	U7P1G	$1,192	DS-3AL	1.25	18.6	105	89.5	7.5	
	1800	200	213T	U7P2H	$1,078	DS-3AL	1.15	19.1	105	91.7	20.8	
	1800	208-230/460	213T	S7P2A	$905	DS-3RST	1.15	18.9	90	91.7	20-18.1/9.1	04,16
	1800	208-230/460	213T	U7P2D	$1,078	DS-3AL	1.25	18.6	125	91.7	20-18.2/9.1	
	1800	575	213T	S7P2G	$905	DS-3RST	1.15	18.9	105	91.7	7.2	04,16
	1800	575	213T	U7P2G	$1,078	DS-3AL	1.25	18.6	115	91.7	7.2	
	1200	200	254T	U7P3H	$1,979	DS-3AL	1.15	24.4	180	91.7	21.8	
	1200	208-230/460	254T	U7P3D	$1,979	DS-3AL	1.25	23.9	180	91.0	20.6-19/9.5	
	1200	575	254T	U7P3G	$1,979	DS-3AL	1.25	23.9	180	91.0	7.6	02
	900	208-230/460	256T	U7P4D	$3,067	DS-3AL	1.25	23.9	230	86.5	23.7-22.3/11.2	03
10	3600	200	215T	U10P1H	$1,397	DS-3AL	1.25	21.6	125	90.2	27	
	3600	208-230/460	215T	S10P1A	$1,078	DS-3RST	1.15	18.9	128	90.2	26.5-23.5/11.7	04,16
	3600	208-230/460	215T	U10P1D	$1,397	DS-3AL	1.25	20.1	130	91.0	26.4-23.5/11.8	
	3600	575	215T	S10P1G	$1,142	DS-3RST	1.15	18.9	120	90.2	9.4	04,16
	3600	575	215T	U10P1G	$1,397	DS-3AL	1.25	20.1	130	91.7	9.4	
	1800	200	215T	U10P2H	$1,302	DS-3AL	1.25	20.6	133	91.7	27.5	
	1800	208-230/460	215T	S10P2A	$1,115	DS-3RST	1.15	18.9	120	91.7	26.6-24/12	04,16
	1800	208-230/460	215T	U10P2D	$1,302	DS-3AL	1.25	20.1	133	91.7	26.5-23.9/12	
	1800	575	215T	S10P2G	$1,115	DS-3RST	1.15	18.9	120	91.7	9.5	04,16
	1800	575	215T	U10P2G	$1,302	DS-3AL	1.25	20.1	140	91.7	9.6	
	1200	200	256T	U10P3H	$2,390	DS-3AL	1.25	25.6	230	91.7	28.2	
	1200	208-230/460	256T	U10P3D	$2,390	DS-3AL	1.25	25.6	230	91.7	27.1-24.6/12.3	
	1200	575	256T	U10P3G	$2,390	DS-3AL	1.25	25.6	230	91.7	9.8	02

Note 02 Suitable for Wye-Delta start on voltages shown

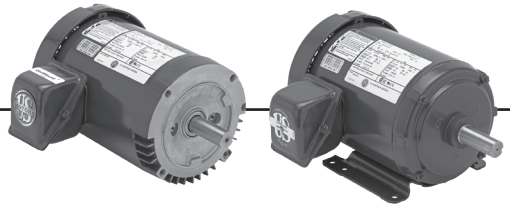
Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 04 On 60 Hertz Sine Wave power

Note 16 Motors marked 208-230/460 volts may not meet all NEMA® (MG-1) performance standards when operated at 208 volts

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC)

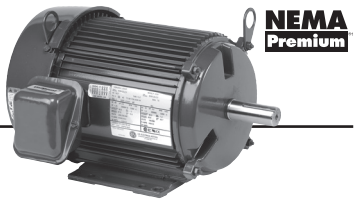
(continued)



HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
15	3600	200	254T	U15P1H	$1,999	DS-3AL	1.25	24.4	180	91.0	40	02
	3600	230/460	254T	S15P1A	$1,543	DS-3RST	1.15	24.4	180	91.0	35/17.3	
	3600	208-230/460	215T	U15P1AF	$1,698	DS-3AL	1.25	20.1	120	91.0	40-35/17.4	
	3600	208-230/460	254T	U15P1D	$1,999	DS-3AL	1.25	23.9	180	91.0	39-35/17.5	
	3600	575	254T	S15P1G	$1,543	DS-3RST	1.15	24.4	180	91.0	13.9	
	3600	575	254T	U15P1G	$1,999	DS-3AL	1.25	23.9	185	91.0	14.1	02
	1800	200	254T	U15P2H	$1,798	DS-3AL	1.25	23.9	180	92.4	42	
	1800	230/460	254T	S15P2A	$1,540	DS-3RST	1.15	24.4	180	92.4	36/17.9	
	1800	208-230/460	254T	U15P2D	$1,798	DS-3AL	1.25	23.9	180	92.4	40-37/18.4	
	1800	575	254T	S15P2G	$1,540	DS-3RST	1.15	24.4	180	92.4	14.4	
	1800	575	254T	U15P2G	$1,798	DS-3AL	1.25	23.9	180	92.4	14.6	02
20	3600	200	256T	U20P1H	$2,475	DS-3AL	1.25	26.1	230	91.0	53	02
	3600	230/460	256T	S20P1A	$1,910	DS-3RST	1.15	24.4	230	91.0	46/23	
	3600	208-230/460	256T	U20P1D	$2,475	DS-3AL	1.25	25.6	230	91.0	53-46/23.1	02,03
	3600	575	256T	S20P1G	$1,910	DS-3RST	1.15	24.4	230	91.0	18.5	
	3600	575	256T	U20P1G	$2,475	DS-3AL	1.25	26.1	230	91.0	18.5	02
	1800	200	256T	U20P2H	$2,216	DS-3AL	1.25	25.6	250	93.0	54	
	1800	230/460	256T	S20P2A	$1,898	DS-3RST	1.15	24.4	230	93.0	48/24	
	1800	208-230/460	256T	U20P2D	$2,216	DS-3AL	1.25	25.6	230	93.0	53-47/23.5	
	1800	575	256T	S20P2G	$1,898	DS-3RST	1.15	24.4	230	93.0	19.4	
	1800	575	256T	U20P2G	$2,216	DS-3AL	1.25	26.1	250	93.0	19	02
25	3600	200	284T	U25P1H	$3,036	DS-3AL	1.25	28.7	250	91.7	65	
	3600	200	284TS	U25P1HS	$3,036	DS-3AL	1.25	27.3	280	91.7	65	
	3600	208-230/460	284T	U25P1D	$3,036	DS-3AL	1.25	28.7	250	91.7	65-57/28.4	
	3600	208-230/460	284TS	U25P1DS	$3,036	DS-3AL	1.25	27.3	250	91.7	65-57/28.4	
	3600	575	284T	U25P1G	$3,036	DS-3AL	1.25	28.7	250	91.7	22.7	02
	3600	575	284TS	U25P1GS	$3,036	DS-3AL	1.25	27.3	250	91.7	22.7	02
	1800	200	284T	U25P2H	$2,659	DS-3AL	1.25	28.7	290	93.6	67	
	1800	200	284TS	U25P2HS	$2,659	DS-3AL	1.25	27.3	290	93.6	67	
	1800	208-230/460	284T	U25P2D	$2,659	DS-3AL	1.25	28.3	280	93.6	65-59/29.3	03
	1800	208-230/460	284TS	U25P2DS	$2,659	DS-3AL	1.25	27.3	280	93.6	65-59/29.3	
	1800	575	284T	U25P2G	$2,659	DS-3AL	1.25	28.7	280	93.6	23.4	02
	1800	575	284TS	U25P2GS	$2,659	DS-3AL	1.25	27.3	290	93.6	23.4	02
30	1800	200	286T	U30P2H	$3,101	DS-3AL	1.25	28.3	325	93.6	81	
	1800	208-230/460	286T	U30P2D	$3,101	DS-3AL	1.25	28.7	325	93.6	78-70/35	
	1800	208-230/460	286TS	U30P2DS	$3,101	DS-3AL	1.25	27.3	325	93.6	78-70/35	
	1800	575	286T	U30P2G	$3,101	DS-3AL	1.25	28.7	325	93.6	28.1	02

Note 02 Suitable for Wye-Delta start on voltages shown
Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) UNIMOUNT® NEMA®† Premium Efficient



APPLICATIONS:

For general industrial equipment including fans, blowers, compressors, pumps and direct connected equipment.

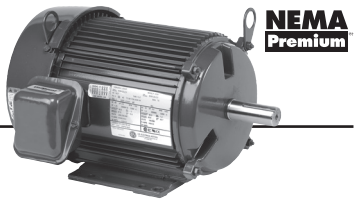
FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- Shaft Slinger On Pulley End
- Full 50 & 60 Hertz Operating Data On Nameplate (03)
- Full HP @ 50 Hertz
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- Suitable For Wye-Delta Start 250 Frame & Larger
- Conversion Kits: C&D Flanges, Drip Cover and Brakes
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1	900	208-230/460	182T	U1P4D	$1,049	DS-3AL	1.25	12.6	60	75.5	4.5-4.6/2.3	03
1 1/2	1200	200	182T	U32P3H	$751	DS-3AL	1.25	16.5	60	87.5	5.4	
	1200	208-230/460	182T	U32P3D	$751	DS-3AL	1.25	16.1	60	87.5	4.8-4.7/2.3	03
	1200	575	182T	U32P3G	$751	DS-3AL	1.25	16.1	60	87.5	1.8	
	900	208-230/460	184T	U32P4D	$1,164	DS-3AL	1.25	16.9	70	80.0	6.4-6.4/3.2	03
2	1200	208-230/460	184T	U2P3D	$836	DS-3AL	1.25	17.3	70	88.5	6.4-6.2/3.1	03
	1200	575	184T	U2P3G	$836	DS-3AL	1.25	16.9	70	88.5	2.5	
	900	208-230/460	213T	U2P4D	$1,296	DS-3AL	1.25	18.6	105	84.0	7-6.6/3.3	03
3	3600	200	182T	U3P1H	$767	DS-3AL	1.25	16.5	60	86.5	8.8	
	3600	208-230/460	182T	U3P1D	$767	DS-3AL	1.25	16.1	60	87.5	8.4-7.8/3.9	03
	3600	575	182T	U3P1G	$767	DS-3AL	1.25	16.1	60	87.5	3.1	
	1800	200	182T	U3P2H	$678	DS-3AL	1.25	16.5	60	89.5	9	
	1800	208-230/460	182T	U3P2D	$678	DS-3AL	1.25	16.5	60	89.5	8.4-7.8/3.9	03
	1800	575	182T	U3P2G	$678	DS-3AL	1.25	16.1	60	89.5	3.2	
	1200	200	213T	U3P3H	$1,036	DS-3AL	1.25	19.1	110	89.5	9.9	
	1200	208-230/460	213T	U3P3D	$1,036	DS-3AL	1.15	18.6	115	89.5	9.3-8.6/4.3	03
	1200	575	213T	U3P3G	$1,036	DS-3AL	1.25	18.6	115	89.5	3.4	
	900	208-230/460	215T	U3P4D	$1,606	DS-3AL	1.25	18.6	120	85.5	10.6-10.3/5.2	03
5	3600	200	184T	U5P1H	$962	DS-3AL	1.25	16.5	70	88.5	14	
	3600	208-230/460	184T	U5P1D	$962	DS-3AL	1.15	16.9	75	88.5	13.4-12.2/6.1	03
	3600	575	184T	U5P1G	$962	DS-3AL	1.25	16.1	75	88.5	4.9	
	1800	200	184T	U5P2H	$788	DS-3AL	1.25	17.3	80	89.5	14.2	
	1800	208-230/460	184T	U5P2D	$788	DS-3AL	1.25	17.3	70	90.2	13.6-12.3/6.2	03
	1800	575	184T	U5P2G	$788	DS-3AL	1.25	16.1	70	89.5	5.1	
	1200	200	215T	U5P3H	$1,483	DS-3AL	1.25	20.6	135	89.5	15.9	
	1200	208-230/460	215T	U5P3D	$1,483	DS-3AL	1.25	20.1	140	90.2	15-14/7	03
	1200	575	215T	U5P3G	$1,483	DS-3AL	1.25	20.1	140	89.5	5.6	
	900	208-230/460	254T	U5P4D	$2,299	DS-3AL	1.25	23.9	180	86.5	15.9-14.8/7.4	03
7 1/2	3600	200	213T	U7P1H	$1,192	DS-3AL	1.25	19.1	105	90.2	20.6	
	3600	208-230/460	184T	U7P1AF	$1,074	DS-3AL	1.25	16.5	70	89.5	19.9-17.7/8.9	
	3600	208-230/460	213T	U7P1D	$1,192	DS-3AL	1.25	18.6	105	91.0	19.9-17.8/8.9	03
	3600	575	184T	U7P1GF	$1,074	DS-3AL	1.25	16.1	70	89.5	7.1	
	3600	575	213T	U7P1G	$1,192	DS-3AL	1.25	18.6	105	89.5	7.5	
	1800	200	213T	U7P2H	$1,078	DS-3AL	1.15	19.1	105	91.7	20.8	
	1800	208-230/460	213T	U7P2D	$1,078	DS-3AL	1.25	18.6	125	91.7	20-18.2/9.1	03
	1800	575	213T	U7P2G	$1,078	DS-3AL	1.25	18.6	115	91.7	7.2	
	1200	200	254T	U7P3H	$1,979	DS-3AL	1.15	24.4	180	91.7	21.8	
	1200	208-230/460	254T	U7P3D	$1,979	DS-3AL	1.25	23.9	180	91.0	20.6-19/9.5	03

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) UNIMOUNT® NEMA®† Premium Efficient

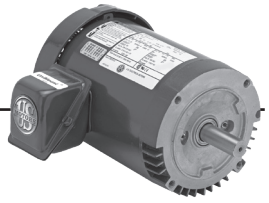


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HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
	1200	575	254T	U7P3G	$1,979	DS-3AL	1.25	23.9	180	91.0	7.6	02
	900	208-230/460	256T	U7P4D	$3,067	DS-3AL	1.25	23.9	230	86.5	23.7-22.3/11.2	03
10	3600	200	215T	U10P1H	$1,397	DS-3AL	1.25	21.6	125	90.2	27	
	3600	208-230/460	215T	U10P1D	$1,397	DS-3AL	1.25	20.1	130	91.0	26.4-23.5/11.8	03
	3600	575	215T	U10P1G	$1,397	DS-3AL	1.25	20.1	130	91.7	9.4	
	1800	200	215T	U10P2H	$1,302	DS-3AL	1.25	20.6	133	91.7	27.5	
	1800	208-230/460	215T	U10P2D	$1,302	DS-3AL	1.25	20.1	133	91.7	26.5-23.9/12	03
	1800	575	215T	U10P2G	$1,302	DS-3AL	1.25	20.1	140	91.7	9.6	
	1200	200	256T	U10P3H	$2,390	DS-3AL	1.25	25.6	230	91.7	28.2	
	1200	208-230/460	256T	U10P3D	$2,390	DS-3AL	1.25	25.6	230	91.7	27.1-24.6/12.3	03
	1200	575	256T	U10P3G	$2,390	DS-3AL	1.25	25.6	230	91.7	9.8	02
15	3600	200	254T	U15P1H	$1,999	DS-3AL	1.25	24.4	180	91.0	40	02
	3600	208-230/460	215T	U15P1AF	$1,698	DS-3AL	1.25	20.1	120	91.0	40-35/17.4	
	3600	208-230/460	254T	U15P1D	$1,999	DS-3AL	1.25	23.9	180	91.0	39-35/17.5	03
	3600	575	254T	U15P1G	$1,999	DS-3AL	1.25	23.9	185	91.0	14.1	02
	1800	200	254T	U15P2H	$1,798	DS-3AL	1.25	23.9	180	92.4	42	
	1800	208-230/460	254T	U15P2D	$1,798	DS-3AL	1.25	23.9	180	92.4	40-37/18.4	03
	1800	575	254T	U15P2G	$1,798	DS-3AL	1.25	23.9	180	92.4	14.6	02
20	3600	200	256T	U20P1H	$2,475	DS-3AL	1.25	26.1	230	91.0	53	02
	3600	208-230/460	256T	U20P1D	$2,475	DS-3AL	1.25	25.6	230	91.0	53-46/23.1	02,03
	3600	575	256T	U20P1G	$2,475	DS-3AL	1.25	26.1	230	91.0	18.5	02
	1800	200	256T	U20P2H	$2,216	DS-3AL	1.25	25.6	250	93.0	54	
	1800	208-230/460	256T	U20P2D	$2,216	DS-3AL	1.25	25.6	230	93.0	53-47/23.5	03
	1800	575	256T	U20P2G	$2,216	DS-3AL	1.25	26.1	250	93.0	19	02
25	3600	200	284T	U25P1H	$3,036	DS-3AL	1.25	28.7	250	91.7	65	
	3600	200	284TS	U25P1HS	$3,036	DS-3AL	1.25	27.3	280	91.7	65	
	3600	208-230/460	284T	U25P1D	$3,036	DS-3AL	1.25	28.7	250	91.7	65-57/28.4	03
	3600	208-230/460	284TS	U25P1DS	$3,036	DS-3AL	1.25	27.3	250	91.7	65-57/28.4	03
	3600	575	284T	U25P1G	$3,036	DS-3AL	1.25	28.7	250	91.7	22.7	02
	3600	575	284TS	U25P1GS	$3,036	DS-3AL	1.25	27.3	250	91.7	22.7	02
	1800	200	284T	U25P2H	$2,659	DS-3AL	1.25	28.7	290	93.6	67	
	1800	200	284TS	U25P2HS	$2,659	DS-3AL	1.25	27.3	290	93.6	67	
	1800	208-230/460	284T	U25P2D	$2,659	DS-3AL	1.25	28.3	280	93.6	65-59/29.3	03
	1800	208-230/460	284TS	U25P2DS	$2,659	DS-3AL	1.25	27.3	280	93.6	65-59/29.3	03
	1800	575	284T	U25P2G	$2,659	DS-3AL	1.25	28.7	280	93.6	23.4	02
	1800	575	284TS	U25P2GS	$2,659	DS-3AL	1.25	27.3	290	93.6	23.4	02
30	1800	200	286T	U30P2H	$3,101	DS-3AL	1.25	28.3	325	93.6	81	
	1800	208-230/460	286T	U30P2D	$3,101	DS-3AL	1.25	28.7	325	93.6	78-70/35	03
	1800	208-230/460	286TS	U30P2DS	$3,101	DS-3AL	1.25	27.3	325	93.6	78-70/35	03
	1800	575	286T	U30P2G	$3,101	DS-3AL	1.25	28.7	325	93.6	28.1	02

Note 02 Suitable for Wye-Delta start on voltages shown
Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) STEEL EDGE®



APPLICATIONS:

For general industrial equipment including fans, blowers, compressors, pumps and direct connected equipment.

FEATURES:

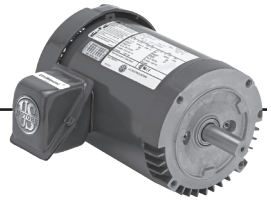
- Rolled Steel Frame
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- Shaft Slinger On Pulley End
- 40°C Ambient, NEMA® Design B Performance On 60 Hertz Sine Wave Power
- Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1/4	1800	208-230/460	56	T14S2A	$224	DS-3RST	1.15	10.9	26	70.0	1.1-1.1/.5	19,103
	1200	208-230/460	56	T14S3A	$294	DS-3RST	1.15	11.9	32	69.9	1.4-1.5/.76	103
1/3	1800	208-230/460	56	T13S2A	$255	DS-3RST	1.15	11.4	26	75.1	1.3-1.3/0.6	103
1/2	3600	208-230/460	48	T12S1D4	$278	DS-3RST	1.00	10.7	19	79.1	1.8-1.8/0.90	103
	3600	208-230/460	56	T12S1A	$278	DS-3RST	1.15	10.9	32	79.0	2.0-2.0/1.0	103
	1800	208-230/460	56	T12S2A	$278	DS-3RST	1.15	11.9	21	78.4	1.8-1.8/0.9	103
	1800	575	56	T12S2G	$278	DS-3RST	1.15	11.9	26	78.4	0.80	103
	1200	208-230/460	56	T12S3A	$357	DS-3RST	1.15	11.9	32	76.7	2.2-2.3/1.1	103
	1200	575	56	T12S3G	$357	DS-3RST	1.15	11.9	32	76.9	0.85	103
3/4	3600	208-230/460	56	T34S1A	$290	DS-3RST	1.15	11.9	32	83.9	2.5-2.5/1.2	103
	3600	575	56	U34P1G	$376	DS-3RST	1.25	12.6	30	80	0.8	
	1800	208-230/460	56	T34S2A	$299	DS-3RST	1.15	11.9	23	81.5	3.0-3.0/1.5	103
	1800	575	56	T34S2G	$299	DS-3RST	1.15	11.9	26	81.6	1.1	37,103
	1200	208-230/460	56H	T34S3AH	$422	DS-3RST	1.15	12.9	32	80.4	3.1-3.2/1.6	103
	1200	208-230/460	143T	T34S3B14	$422	DS-3RST	1.15	12.8	32	75.5	3.4-3.5/1.7	103
	1200	575	56	U34P3GH	$532	DS-3RST	1.25	12.6	30	82.5	1.2	
	1200	575	143T	U34P3G14	$532	DS-3RST	1.25	13.0	30	82.5	1.2	
1	3600	208-230/460	56	U1P1D	$404	DS-3RST	1.25	12.6	30	81.5	2.9-2.7/1.4	03
	3600	208-230/460	56	T1P1A	$327	DS-3RST	1.25	11.9	27	77.0	3.4-3.2/1.6	
	3600	575	56	U1P1G	$404	DS-3RST	1.25	12.9	30	80.0	1.1	
	1800	200	143T	U1P2H	$423	DS-3RST	1.25	13.0	30	85.5	3.4	
	1800	208-230/460	56H	T1P2AH	$396	DS-3RST	1.15	12.9	36	85.5	3.3-3.2/1.5	103
	1800	208-230/460	56HZ	T1P2AHZ	$423	DS-3RST	1.25	13.3	36	85.5	3.3-3.2/1.5	
	1800	208-230/460	143T	U1P2D	$423	DS-3RST	1.25	13.1	30	85.5	3.1-3/1.5	03
	1800	575	56H	T1P2GH	$396	DS-3RST	1.15	12.9	33	85.5	1.3	103
	1800	575	143T	U1P2G	$423	DS-3RST	1.25	13.0	30	85.5	1.1	
	1200	200	145T	U1P3H	$575	DS-3RST	1.25	13.1	35	82.5	4.1	
	1200	208-230/460	56H	U1P3DF	$575	DS-3RST	1.25	12.6	30	82.5	3.6-3.5/1.8	
	1200	208-230/460	145T	U1P3D	$575	DS-3RST	1.25	13.1	35	82.5	3.6-3.5/1.8	03
	1200	575	56	U1P3GH	$575	DS-3RST	1.25	12.6	35	82.5	1.4	
	1200	575	145T	U1P3G	$575	DS-3RST	1.25	13.1	35	82.5	1.4	
1 1/2	3600	200	143T	U32P1H	$488	DS-3RST	1.25	13.0	30	84.0	4.4	
	3600	208-230/460	56H	T32P1AH	$438	DS-3RST	1.15	13.0	32	84.0	4.9-5.0/2.5	
	3600	208-230/460	143T	U32P1D	$488	DS-3RST	1.25	13.0	30	84.0	4.2-3.9/1.9	
	3600	575	56	U32P1GH	$488	DS-3RST	1.25	12.6	30	84.0	1.6	
	3600	575	143T	U32P1G	$488	DS-3RST	1.25	13.0	30	84.0	1.6	
	1800	200	145T	U32P2H	$469	DS-3RST	1.25	13.0	35	86.5	4.7	
	1800	208-230/460	56H	T32P2AH	$421	DS-3RST	1.15	12.9	38	86.5	4.5-4.5/2.2	103
	1800	208-230/460	145T	U32P2D	$469	DS-3RST	1.25	13.0	35	86.5	4.5-4.3/2.1	03
	1800	575	56	U32P2GH	$421	DS-3RST	1.25	12.6	35	86.5	1.7	
	1800	575	145T	U32P2G	$469	DS-3RST	1.25	13.0	35	86.5	1.7	
	1200	208-230/460	182T	S32P3A	$645	DS-3RST	1.15	14.9	40	87.5	5.1-5.2/2.6	04,16
	1200	575	182T	S32P3G	$645	DS-3RST	1.15	14.9	60	87.5	2	04

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate
Note 04 On 60 Hertz Sine Wave power
Note 16 Motors marked 208-230/460 volts may not meet all NEMA® (MG-1) performance standards when operated at 208 volts
Note 19 Also rated for 190/380, 220/415 volt 50 Hz at 1.0 Service Factor
Note 37 Q-3 leads for across-the-line start
Note 103 Does not accept brake kit

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) STEEL EDGE®

(continued)



HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
2	3600	200	145T	U2P1H	$525	DS-3RST	1.25	13.0	35	86.5	5.6	
	3600	208-230/460	56H	T2P1AH	$520	DS-3RST	1.15	12.9	37	85.5	5.1-5.1/2.6	
	3600	208-230/460	145T	U2P1D	$525	DS-3RST	1.25	13.0	35	86.5	5.4-4.9/2.5	03
	3600	575	56H	U2P1GF	$470	DS-3RST	1.25	12.6	30	85.5	2	
	3600	575	145T	U2P1G	$525	DS-3RST	1.25	13.0	35	86.5	2	
	1800	200	145T	U2P2H	$514	DS-3RST	1.25	13.0	35	86.5	6.2	
	1800	208-230/460	56H	T2P2AH	$461	DS-3RST	1.15	10.4	42	86.5	6.2-6.0/3.0	
	1800	208-230/460	56HZ	T2P2AHZ	$514	DS-3RST	1.25	14.0	42	86.5	6.2-6.0/3.0	
	1800	208-230/460	145T	U2P2D	$514	DS-3RST	1.25	13.0	35	86.5	5.9-5.7/2.8	03
	1800	575	56	U2P2GH	$514	DS-3RST	1.25	12.6	35	86.5	2.3	
	1800	575	56	U2P2GHZ	$514	DS-3RST	1.25	12.6	35	86.5	2.3	
	1800	575	145T	U2P2G	$514	DS-3RST	1.25	13.0	35	86.5	2.3	
	1200	208-230/460	184T	S2P3A	$732	DS-3RST	1.15	14.9	74	88.5	6.4-6.2/3.1	04,16
	1200	575	184T	S2P3G	$732	DS-3RST	1.15	15.9	60	88.5	2.4	04
3	3600	200	145T	U3P1HF	$573	DS-3RST	1.25	13.0	35	86.5	8.3	
	3600	208-230/460	56HZ	U3P1AHZ	$573	DS-3RST	1.25	13.8	40	86.5	7.9-6.7/3.4	103
	3600	208-230/460	145T	U3P1DF	$573	DS-3RST	1.25	13.0	35	86.5	8.1-7.2/3.6	03
	3600	208-230/460	182T	S3P1A	$605	DS-3RST	1.15	14.9	50	86.5	8.4-7.7/3.9	04,16
	3600	575	56	U3P1GHZ	$573	DS-3RST	1.25	12.6	35	86.5	2.8	
	3600	575	145T	U3P1GF	$573	DS-3RST	1.25	13.0	35	86.5	2.9	
	3600	575	182T	S3P1G	$605	DS-3RST	1.15	14.9	60	86.5	3.1	04
	1800	208-230/460	182T	S3P2A	$605	DS-3RST	1.15	14.9	85	89.5	8.4-7.8/3.9	04,16
	1800	575	182T	S3P2G	$605	DS-3RST	1.15	14.9	60	89.5	3.2	04
	1200	208-230/460	213T	S3P3A	$928	DS-3RST	1.15	18.9	130	89.5	9.2-8.6/4.3	04,16
	1200	575	213T	S3P3G	$928	DS-3RST	1.15	18.9	105	89.5	3.4	04,16
5	3600	208-230/460	184T	S5P1A	$715	DS-3RST	1.15	15.9	65	88.5	13.6-12.1/6.1	04,16
	3600	575	184T	S5P1G	$715	DS-3RST	1.15	15.9	70	88.5	4.9	04
	1800	208-230/460	184T	S5P2A	$715	DS-3RST	1.15	15.9	72	89.5	13.5-12.5/6.2	04,16
	1800	575	184T	S5P2G	$715	DS-3RST	1.15	15.9	70	89.5	4.9	04
	1200	208-230/460	215T	S5P3A	$1,155	DS-3RST	1.15	18.9	135	89.5	15-14.1/7	04,16
	1200	575	215T	S5P3G	$1,155	DS-3RST	1.15	18.9	120	89.5	5.6	04,16
7 1/2	3600	208-230/460	213T	S7P1A	$942	DS-3RST	1.15	18.9	114	89.5	19.9-17.9/9	04,16
	3600	575	213T	S7P1G	$942	DS-3RST	1.15	18.9	105	89.5	7.2	04,16
	1800	208-230/460	213T	S7P2A	$905	DS-3RST	1.15	18.9	90	91.7	20-18.1/9.1	04,16
	1800	575	213T	S7P2G	$905	DS-3RST	1.15	18.9	105	91.7	7.2	04,16
	1200	230/460	254T	S7P3A	$1395	DS-3RST	1.15	24.4	180	91.0	18.9/9.5	
	1200	575	254T	S7P3G	$1395	DS-3RST	1.15	24.4	180	91.0	7.6	
10	3600	208-230/460	215T	S10P1A	$1,078	DS-3RST	1.15	18.9	128	90.2	26.5-23.5/11.7	04,16
	3600	575	215T	S10P1G	$1,142	DS-3RST	1.15	18.9	120	90.2	9.4	04,16
	1800	208-230/460	215T	S10P2A	$1,115	DS-3RST	1.15	18.9	120	91.7	26.6-24/12	04,16
	1800	575	215T	S10P2G	$1,115	DS-3RST	1.15	18.9	120	91.7	9.5	04,16
	1200	230/460	256T	S10P3A	$1,674	DS-3RST	1.15	24.41	230	91.0	25/12.5	
	1200	575	256T	S10P3G	$1,674	DS-3RST	1.15	24.41	230	91.0	10.1	
15	3600	230/460	254T	S15P1A	$1,543	DS-3RST	1.15	24.4	180	91.0	35/17.3	
	3600	575	254T	S15P1G	$1,543	DS-3RST	1.15	24.4	180	91.0	13.9	
	1800	230/460	254T	S15P2A	$1,540	DS-3RST	1.15	24.4	180	92.4	36/17.9	
	1800	575	254T	S15P2G	$1,540	DS-3RST	1.15	24.4	180	92.4	14.4	
20	3600	230/460	256T	S20P1A	$1,910	DS-3RST	1.15	24.4	230	91.0	46/23	
	3600	575	256T	S20P1G	$1,910	DS-3RST	1.15	24.4	230	91.0	18.5	
	1800	230/460	256T	S20P2A	$1,898	DS-3RST	1.15	24.4	230	93.0	48/24	
	1800	575	256T	S20P2G	$1,898	DS-3RST	1.15	24.4	230	93.0	19.4	

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 04 On 60 Hertz Sine Wave power

Note 16 Motors marked 208-230/460 volts may not meet all NEMA® (MG-1) performance standards when operated at 208 volts

Note 103 Does not accept brake kit

Definite Purpose Three Phase, UNIMOUNT® Totally Enclosed Fan Cooled (TEFC) Multi-Speed



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APPLICATIONS:

For applications requiring more than one standard speed.

FEATURES:

- Class F Insulation
- Extruded Aluminum Frame (140: Rolled Steel)
- Aluminum End Shields With Steel Bearing Inserts
- 40°C Ambient
- Regreasable Bearings 250 Frame & Up
- Double Shielded Bearings
- Removable Base 180 Frame & Up
- Lifting Provisions 180 Frame & Up
- Conversion Kits: C&D Flanges
- 1.0 Service Factor Or Higher

Variable Torque, 1800/900 RPM, One Winding

HP (HP-Low)	RPM/RPM-Low (# Wdgs)	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1 (1/4)	1800/900 (1)	460	143T	U1L9C	$700	DS-3MS	1.25	13.0	34	78.5	1.6	
1 1/2 (3/8)	1800/900 (1)	460	145T	U32L9C	$770	DS-3MS	1.25	13.0	34	78.5	2.4	
2 (1/2)	1800/900 (1)	460	145T	U2L9C	$850	DS-3MS	1.25	14.0	42	81.5	3	
3 (3/4)	1800/900 (1)	460	182T	U3L9C	$884	DS-3MS	1.25	16.0	52	80.0	4.4	
5 (1-1/4)	1800/900 (1)	460	184T	U5L9C	$1,234	DS-3MS	1.15	17.0	64	84.0	7	
7 1/2 (1-7/8)	1800/900 (1)	460	213T	U7L9C	$1,532	DS-3MS	1.25	19.0	102	87.5	9.5	
10 (2-1/2)	1800/900 (1)	460	215T	U10L9C	$1,936	DS-3MS	1.15	20.0	130	84.0	13	
15 (3-3/4)	1800/900 (1)	460	254T	U15L9C	$2,544	DS-3MS	1.25	24.0	222	87.5	18.6	
20 (5)	1800/900 (1)	460	256T	U20L9C	$3,166	DS-3MS	1.15	26.0	242	87.5	24.4	
25/ (6-1/4)	1800/900 (1)	460	286T	U25L9C	$3,730	DS-3MS	1.15	28.0	262	87.5	30	

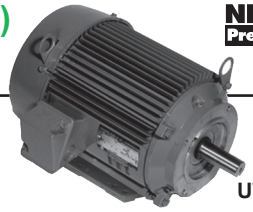
Constant Torque, 1800/900 RPM, One Winding

HP (HP-Low)	RPM/RPM-Low (# Wdgs)	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1 (1/2)	1800/900 (1)	460	145T	U1R9C	$846	DS-3MS	1.25	14.0	42	81.5	1.5	
1 1/2 (3/4)	1800/900 (1)	460	182T	U32R9C	$928	DS-3MS	1.25	16.0	58	80.0	2.2	
2 (1)	1800/900 (1)	460	182T	U2R9C	$1,026	DS-3MS	1.25	16.0	40	80.0	2.8	
3 (1-1/2)	1800/900 (1)	460	184T	U3R9C	$1,065	DS-3MS	1.15	16.0	67	78.5	4.1	
5 (2-1/2)	1800/900 (1)	460	215T	U5R9C	$1,490	DS-3MS	1.25	20.0	112	82.5	6.6	
7 1/2 (3-3/4)	1800/900 (1)	460	254T	U7R9C	$1,851	DS-3MS	1.15	24.0	190	84.0	9.6	
10 (5)	1800/900 (1)	460	256T	U10R9C	$2,338	DS-3MS	1.00	26.0	238	84.0	12.7	
15 (7-1/2)	1800/900 (1)	460	284T	U15R9C	$3,068	DS-3MS	1.25	28.0	262	85.5	18.6	
20 (10)	1800/900 (1)	460	286T	U20R9C	$3,820	DS-3MS	1.15	28.0	262	85.5	24.7	

Constant Torque, 1800/1200 RPM, Two Winding

HP (HP-Low)	RPM/RPM-Low (# Wdgs)	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1 1/2 (1)	1800/1200 (2)	460	182T	U32D10C	$1,273	DS-3MS	1.25	16.0	50	75.5	2.7	
2 (1-1/3)	1800/1200 (2)	460	184T	U2D10C	$1,403	DS-3MS	1.25	17.0	85	77.0	3.4	
7 1/2 (5)	1800/1200 (2)	460	254T	U7D10C	$2,537	DS-3MS	1.25	24.0	232	84.0	10.1	
10 (6-2/3)	1800/1200 (2)	460	256T	U10D10C	$3,207	DS-3MS	1.25	26.0	262	85.5	12.9	
15 (10)	1800/1200 (2)	460	286T	U15D10C	$4,210	DS-3MS	1.25	28.0	262	86.5	18.8	

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) UNIMOUNT® NEMA®† Premium Efficient, C-Face Footed



NEMA Premium

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APPLICATIONS:

For general industrial equipment including fans, blowers, compressors, pumps and direct connected equipment.

FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- Shaft Slinger On Pulley End
- Full 50 & 60 Hertz Operating Data On Nameplate (03)
- Full HP @ 50 Hertz
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- Suitable For Wye-Delta Start 250 Frame & Larger
- Conversion Kits: C&D Flanges, Drip Cover and Brakes
- Refer to Page vii for Suitability of IHP Motors on Variable Frequency Drives
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1 1/2	1200	208-230/460	182TC	U32P3DC	$845	DS-3AL	1.25	16.2	60	87.5	4.8-4.7/2.3	03
	1200	575	182TC	U32P3GC	$845	DS-3AL	1.25	16.2	60	87.5	1.8	
2	1200	208-230/460	184TC	U2P3DC	$930	DS-3AL	1.25	16.9	70	88.5	6.4-6.2/3.1	03
	1200	575	184TC	U2P3GC	$930	DS-3AL	1.25	16.2	70	88.5	2.5	
3	3600	208-230/460	182TC	U3P1DC	$860	DS-3AL	1.25	16.2	50	87.5	8.4-7.8/3.9	03
	3600	208-230/460	182TCH	U3P1DK	$860	DS-3AL	1.25	16.2	50	87.5	8.4-7.8/3.9	03
	3600	575	182TC	U3P1GC	$860	DS-3AL	1.25	16.2	60	87.5	3.1	
	1800	208-230/460	182TC	U3P2DC	$772	DS-3AL	1.25	16.2	70	89.5	8.4-7.8/3.9	03
	1800	208-230/460	182TCH	U3P2DK	$772	DS-3AL	1.25	16.2	60	89.5	8.4-7.8/3.9	03
	1800	575	182TC	U3P2GC	$772	DS-3AL	1.25	16.2	60	89.5	3.2	
	1200	208-230/460	213TC	U3P3DC	$1,150	DS-3AL	1.15	18.8	110	89.5	9.3-8.6/4.3	03
5	3600	208-230/460	184TC	U5P1DC	$1,056	DS-3AL	1.15	16.2	75	88.5	13.4-12.2/6.1	03
	3600	208-230/460	184TCH	U5P1DK	$1,056	DS-3AL	1.15	16.2	75	88.5	13.4-12.2/6.1	03
	3600	575	184TC	U5P1GC	$1,056	DS-3AL	1.25	16.2	70	88.5	4.9	
	1800	200	184TCH	U5P2HK	$882	DS-3AL	1.25	16.9	80	89.5	14.2	03
	1800	208-230/460	184TC	U5P2DC	$882	DS-3AL	1.25	16.9	80	90.2	13.6-12.3/6.2	03
	1800	208-230/460	184TCH	U5P2DK	$882	DS-3AL	1.25	16.9	80	90.2	13.6-12.3/6.2	03
	1800	575	184TC	U5P2GC	$882	DS-3AL	1.25	16.9	70	89.5	5	
	1200	208-230/460	215TC	U5P3DC	$1,597	DS-3AL	1.25	20.3	135	90.2	15-14/7	03
	1200	575	215TC	U5P3GC	$1,597	DS-3AL	1.25	20.3	135	89.5	5.6	
7 1/2	3600	208-230/460	213TC	U7P1DC	$1,306	DS-3AL	1.25	18.8	105	91.0	19.9-17.8/8.9	03
	3600	575	213TC	U7P1GC	$1,306	DS-3AL	1.25	18.8	105	89.5	7.5	
	1800	208-230/460	213TC	U7P2DC	$1,192	DS-3AL	1.25	19.1	105	91.7	20-18.2/9.1	03
	1800	575	213TC	U7P2GC	$1,192	DS-3AL	1.25	18.8	105	91.7	7.2	
	1200	208-230/460	254TC	U7P3DC	$2,147	DS-3AL	1.25	23.9	180	91.0	20.6-19/9.5	03
	1200	575	254TC	U7P3GC	$2,147	DS-3AL	1.25	24.0	180	91.0	7.6	
10	3600	208-230/460	215TC	U10P1DC	$1,511	DS-3AL	1.25	20.3	125	91.0	26.4-23.5/11.8	03
	3600	575	215TC	U10P1GC	$1,511	DS-3AL	1.25	20.1	125	91.7	9.4	
	1800	208-230/460	215TC	U10P2DC	$1,416	DS-3AL	1.25	20.3	133	91.7	26.5-23.9/12	03
	1800	575	215TC	U10P2GC	$1,416	DS-3AL	1.25	20.3	133	91.7	9.6	
	1200	208-230/460	256TC	U10P3DC	$2,558	DS-3AL	1.25	25.8	230	91.7	27.1-24.6/12.3	03
15	3600	208-230/460	215TC	U15P1DFC	$1,812	DS-3AL	1.25	20.3	120	91.0	40-35/17.4	03
	3600	208-230/460	254TC	U15P1DC	$2,174	DS-3AL	1.25	24.0	180	91.0	39-35/17.5	02,03
	3600	575	254TC	U15P1GC	$2,174	DS-3AL	1.25	24.0	185	91.0	14.1	
	1800	208-230/460	254TC	U15P2DC	$1,973	DS-3AL	1.15	23.9	180	92.4	40-37/18.4	03
20	3600	208-230/460	256TC	U20P1DC	$2,650	DS-3AL	1.25	25.6	230	91.0	53-46/23.1	02,03
	3600	575	256TC	U20P1GC	$2,650	DS-3AL	1.25	25.8	230	91.0	18.5	02
	1800	208-230/460	256TC	U20P2DC	$2,391	DS-3AL	1.25	25.8	230	93.0	53-47/23.5	03
25	3600	208-230/460	284TC	U25P1DC	$3,268	DS-3AL	1.25	28.3	250	91.7	65-57/28.4	03
	1800	208-230/460	284TC	U25P2DC	$2,890	DS-3AL	1.25	28.3	280	93.6	65-59/29.3	03
30	1800	208-230/460	286TC	U30P2DC	$3,333	DS-3AL	1.25	28.4	325	93.6	78-73/36	03

Note 02 Suitable for Wye-Delta start on voltages shown
Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) STEEL EDGE® C-Face Footed



APPLICATIONS:

For general industrial equipment including fans, blowers, compressors, pumps and direct connected equipment.

FEATURES:

- Rolled Steel Frame
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- Shaft Slinger On Pulley End
- 40°C Ambient, NEMA® Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1/4	1800	208-230/460	56C	U14S2AC	$246	DS-3RST	1.25	10.8	20	70.0	1.3-1.4/0.7	
	1800	575	56C	U14P2GC	$319	DS-3RST	1.25	10.8	30	74.0	0.4	
	1200	208-230/460	56C	U14S3AC	$323	DS-3RST	1.25	10.8	22	72.0	1.1-1.2/0.6	
	1200	575	56C	U14P3GC	$407	DS-3RST	1.25	10.8	30	72.0	0.6	
1/3	1800	208-230/460	56C	U13S2AC	$281	DS-3RST	1.25	10.8	22	72.0	1.4-1.5/0.7	
	1800	575	56C	U13P2GC	$365	DS-3RST	1.25	10.8	30	74.0	0.5	
	1200	208-230/460	56C	U13S3AC	$361	DS-3RST	1.25	10.8	23	75.5	1.3-1.3/0.6	
	1200	575	56C	U13P3GC	$455	DS-3RST	1.25	10.8	30	72.0	0.7	
1/2	3600	208-230/460	56C	U12S1AC	$306	DS-3RST	1.25	10.8	25	70.0	1.7-1.6/0.8	
	1800	208-230/460	56C	U12S2AC	$306	DS-3RST	1.25	10.8	26	74.0	1.8-1.8/0.9	
	1800	575	56C	U12P2GC	$397	DS-3RST	1.25	10.8	30	78.5	0.8	
	1200	208-230/460	56C	U12S3AC	$393	DS-3RST	1.25	11.5	26	72.0	2.2-2.2/1.1	103
	1200	575	56C	U12P3GC	$495	DS-3RST	1.25	12.1	30	75.5	0.8	
	3600	575	56C	U12P1GC	$386	DS-3RST	1.25	12.1	30	74.0	0.6	
3/4	3600	208-230/460	56C	U34S1AC	$319	DS-3RST	1.25	10.8	26	75.5	2.4-2.2/1.1	
	3600	575	56C	U34P1GC	$402	DS-3RST	1.25	12.1	30	77.0	0.8	
	1800	208-230/460	56C	U34S2AC	$329	DS-3RST	1.25	10.8	32	77.0	2.7-2.7/1.4	
	1800	575	56C	U34P2GC	$427	DS-3RST	1.25	10.8	30	81.5	1	
	1200	208-230/460	56C	U34S3AC	$464	DS-3RST	1.25	12.9	34	80.4	3.1-3.2/1.6	103
	1200	208-230/460	143TC	U34S3DC	$464	DS-3RST	1.25	12.1	30	72.0	3-3.1/1.6	
	1200	575	56C	U34P3GC	$585	DS-3RST	1.25	13.1	30	82.5	1.2	
	1200	575	143TC	U34P3G14C	$585	DS-3RST	1.25	13.1	30	82.5	1.2	
1	3600	208-230/460	56C	U1P1DC	$503	DS-3RST	1.25	13.1	30	81.5	2.9-2.7/1.4	03
	3600	575	56C	U1P1GC	$503	DS-3RST	1.25	13.1	50	81.5	1.1	
	1800	208-230/460	56C	U1P2DFC	$440	DS-3RST	1.25	13.1	30	85.5	3.1-3/1.5	03
	1800	208-230/460	143TC	U1P2DC	$503	DS-3RST	1.25	13.1	30	85.5	3.1-3/1.5	03
	1800	575	56C	U1P2GFC	$440	DS-3RST	1.25	13.1	30	85.5	1.1	03
	1800	575	143TC	U1P2GC	$503	DS-3RST	1.25	13.1	30	85.5	1.1	
	1200	208-230/460	56C	U1P3DFC	$655	DS-3RST	1.25	13.1	30	82.5	3.6-3.5/1.8	03
	1200	208-230/460	145TC	U1P3DC	$655	DS-3RST	1.25	13.1	35	82.5	3.6-3.5/1.8	03
	1200	575	56C	U1P3GFC	$655	DS-3RST	1.25	13.1	30	82.5	1.4	
	1200	575	145TC	U1P3GC	$655	DS-3RST	1.25	13.1	35	82.5	1.4	

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 103 Does not accept brake kit

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) STEEL EDGE® C-Face Footed

(continued)



HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1 1/2	3600	208-230/460	56C	U32P1DFC	$500	DS-3RST	1.25	13.1	30	84.0	4.2-3.9/1.9	03
	3600	208-230/460	143TC	U32P1DC	$567	DS-3RST	1.25	13.1	30	84.0	4.2-3.9/1.9	03
	3600	575	56C	U32P1GFC	$567	DS-3RST	1.25	13.1	30	84.0	1.6	
	3600	575	143TC	U32P1GC	$567	DS-3RST	1.25	13.1	30	84.0	1.6	
	1800	200	145TC	U32P2HC	$549	DS-3RST	1.25	13.1	35	86.5	4.7	
	1800	208-230/460	56C	U32P2DFC	$442	DS-3RST	1.25	13.1	30	86.5	4.5-4.3/2.1	03
	1800	208-230/460	145TC	U32P2DC	$549	DS-3RST	1.15	13.1	35	86.5	4.5-4.3/2.1	03
	1800	575	56C	U32P2GFC	$442	DS-3RST	1.25	13.1	30	86.5	1.7	03
	1800	575	145TC	U32P2GC	$549	DS-3RST	1.25	13.1	35	86.5	1.7	
2	3600	208-230/460	56C	U2P1DFC	$491	DS-3RST	1.25	13.1	30	86.5	5.4-4.9/2.5	03
	3600	208-230/460	145TC	U2P1DC	$604	DS-3RST	1.25	13.1	35	86.5	5.4-4.9/2.5	03
	3600	575	56C	U2P1GFC	$496	DS-3RST	1.25	13.1	30	86.5	2	
	3600	575	145TC	U2P1GC	$604	DS-3RST	1.25	13.1	35	86.5	2	
	1800	208-230/460	56C	U2P2DFC	$484	DS-3RST	1.25	13.1	30	86.5	5.9-5.7/2.8	03
	1800	208-230/460	145TC	U2P2DC	$593	DS-3RST	1.15	13.1	35	86.5	5.9-5.7/2.9	03
	1800	575	56C	U2P2GFC	$484	DS-3RST	1.25	13.9	50	85.5	2.5	04,16
	1800	575	145TC	U2P2GC	$593	DS-3RST	1.25	13.1	35	86.5	2.3	
3	3600	208-230/460	56C	U3P1DFC	$568	DS-3RST	1.25	13.1	30	86.5	8.1-7.2/3.6	03
	3600	208-230/460	145TC	U3P1AFC	$600	DS-3RST	1.25	13.1	35	86.5	8.1-7.2/3.6	03,14
	3600	575	56C	U3P1GFC	$568	DS-3RST	1.25	13.1	30	86.5	2.8	
	3600	575	145TC	U3P1G14C	$600	DS-3RST	1.25	13.1	35	86.5	2.8	
	1800	208-230/460	182TC	S3P2AC	$637	DS-3RST	1.15	15.9	85	89.5	8.4-7.8/3.9	04,16
	1800	575	182TC	S3P2GC	$637	DS-3RST	1.15	15.9	60	89.5	3.2	04
5	3600	208-230/460	184TC	S5P1AC	$752	DS-3RST	1.15	15.9	65	88.5	13.6-12.1/6.1	04,16
	3600	575	184TC	S5P1GC	$752	DS-3RST	1.15	15.9	70	88.5	4.9	04
	1800	208-230/460	184TC	S5P2AC	$752	DS-3RST	1.15	15.9	110	89.5	13.5-12.5/6.2	04,16
	1800	575	184TC	S5P2GC	$752	DS-3RST	1.15	15.9	70	89.5	4.9	04
7 1/2	3600	208-230/460	213TC	S7P1AC	$996	DS-3RST	1.15	19.4	116	89.5	19.9-17.9/9	04,16
	3600	575	213TC	S7P1GC	$996	DS-3RST	1.15	19.4	105	89.5	7.2	04,16
	1800	208-230/460	213TC	S7P2AC	$956	DS-3RST	1.15	19.4	90	91.7	20-18.1/9.1	04,16
	1800	575	213TC	S7P2GC	$956	DS-3RST	1.15	19.4	105	91.7	7.2	04,16
10	3600	208-230/460	215TC	S10P1AC	$1,142	DS-3RST	1.15	19.4	131	90.2	26.5-23.5/11.7	04,16
	3600	575	215TC	S10P1GC	$1,078	DS-3RST	1.15	19.4	120	90.2	9.4	04,16
	1800	208-230/460	215TC	S10P2AC	$1,176	DS-3RST	1.15	19.4	120	91.7	26.6-24/12	04,16
	1800	575	215TC	S10P2GC	$1,176	DS-3RST	1.15	19.4	120	91.7	9.5	04,16
15	3600	230/460	254TC	S15P1AC	$1,718	DS-3RST	1.15	25.4	180	91.0	35/17.3	
	3600	575	254TC	S15P1GC	$1,718	DS-3RST	1.15	25.4	180	91.0	13.9	
	1800	230/460	254TC	S15P2AC	$1,715	DS-3RST	1.15	25.4	180	92.4	36/17.9	
	1800	575	254TC	S15P2GC	$1,715	DS-3RST	1.15	25.4	180	92.4	14.4	
20	3600	230/460	256TC	S20P1AC	$2,085	DS-3RST	1.15	25.4	230	91.0	46/23	14
	3600	575	256TC	S20P1GC	$2,085	DS-3RST	1.15	25.4	230	91.0	18.5	14
	1800	230/460	256TC	S20P2AC	$2,073	DS-3RST	1.15	25.4	230	93.0	48/24	14
	1800	575	256TC	S20P2GC	$2,073	DS-3RST	1.15	25.4	230	93.0	19.4	14

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 04 On 60 Hertz Sine Wave power

Note 14 NEMA® Design A

Note 16 Motors marked 208-230/460 volts may not meet all NEMA® (MG-1) performance standards when operated at 208 volts

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) C-Face Footless

APPLICATIONS:

For general industrial equipment including fans, blowers, compressors, pumps and direct connected equipment.

FEATURES:

UNIMOUNT® NEMA® Premium Efficient (Discount Symbol DS-3AL)

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- Shaft Slinger On Pulley End
- Full 50 & 60 Hertz Operating Data On Nameplate (03)
- Full HP @ 50 Hertz
- 40°C Ambient, NEMA® Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- Suitable For Wye-Delta Start 250 Frame & Larger
- Conversion Kits: C&D Flanges, Drip Cover and Brakes

STEEL EDGE® (Discount Symbol DS-3RST)

- Rolled Steel Frame
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- Shaft Slinger On Pulley End
- 40°C Ambient, NEMA® Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- Conversion Kits: Drip Cover and Brakes (140 Frame and Up)
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1/4	1800	208-230/460	56C	U14S2DCR	$231	DS-3RST	1.25	10.8	23	70.0	1-1/0.5	16
	1200	208-230/460	56C	T14S3DCR	$308	DS-3RST	1.15	11.3	27	75.5	1.4-1.4/0.7	103
1/3	3600	208-230/460	56C	T13S1ACR	$279	DS-3RST	1.15	10.8	32	74.6	1.7-1.8/0.9	103
	1800	208-230/460	42CZ	T13S2D42ZCR	$266	DS-3RST	1.00	10.4	9	65.0	1.5-1.5/0.75	
	1800	208-230/460	56C	U13S2ACR	$266	DS-3RST	1.25	10.8	25	75.5	1.2-1.2/0.6	16
	1800	575	56C	T13S2GCR	$266	DS-3RST	1.15	11.4	26	75.3	0.59	103
	1200	208-230/460	56C	T13S3DCR	$346	DS-3RST	1.15	11.3	32	77.0	1.6-1.6/0.80	103
1/2	3600	208-230/460	56C	T12S1ACR	$291	DS-3RST	1.15	10.9	32	64.0	2.18-2.18/1.09	103
	1800	208-230/460	56C	U12P2DCR	$378	DS-3RST	1.25	12.1	30	82.5	1.8-1.8/0.9	03
	1800	208-230/460	56C	U12S2ACR	$291	DS-3RST	1.25	10.8	25	75.5	1.8-1.7/0.9	16
	1800	575	56C	U12P2GCR	$378	DS-3RST	1.25	10.8	30	78.5	0.8	
	1200	208-230/460	56C	U12S3ACR	$378	DS-3RST	1.25	10.8	25	72.0	2.1-2.1/1	16
3/4	3600	208-230/460	56C	U34S1ACR	$304	DS-3RST	1.25	10.8	27	75.5	2.4-2.2/1.1	16
	1800	208-230/460	56C	U34P2DCR	$408	DS-3RST	1.25	12.1	30	84.0	2.3-2.3/1.1	03
	1800	208-230/460	56C	U34S2ACR	$314	DS-3RST	1.25	10.8	28	78.5	2.6-2.7/1.3	16
	1800	575	56C	U34P2GCR	$408	DS-3RST	1.25	10.8	30	81.5	1	
	1200	208-230/460	56C	U34S3ACR	$449	DS-3RST	1.15	12.8	32	80.4	3.1-3.2/1.6	103
	1200	575	56C	U34P3GCR	$566	DS-3RST	1.25	13.1	30	82.5	1.2	
1	3600	208-230/460	56C	U1P1DCR	$488	DS-3RST	1.25	13.1	30	81.5	2.9-2.7/1.4	03
	3600	575	56C	U1P1GCR	$488	DS-3RST	1.25	10.8	30	80.0	1.1	
	1800	208-230/460	56C	U1P2DFCR	$425	DS-3RST	1.25	13.1	30	85.5	3.1-3/1.5	03
	1800	208-230/460	143TC	U1P2DCR	$488	DS-3RST	1.15	12.1	30	85.5	3.1-3/1.5	03
	1800	575	56C	U1P2GFCR	$425	DS-3RST	1.25	13.1	30	85.5	1.1	
	1800	575	143TC	U1P2GCR	$488	DS-3RST	1.25	13.1	30	85.5	1.1	
	1200	575	56C	U1P3GFCR	$655	DS-3RST	1.25	13.4	35	82.5	1.4	
1 1/2	3600	208-230/460	56C	T32P1ACR	$485	DS-3RST	1.15	12.3	32	84.0	4.9-5.0/2.5	
	3600	208-230/460	143TC	U32P1A14CR	$552	DS-3RST	1.15	11.9	32	84.0	4.9-5.0/2.5	103
	3600	575	56C	U32P1GFCR	$647	DS-3RST	1.25	13.1	30	84.0	1.6	
	3600	575	143TC	U32P1GCR	$647	DS-3RST	1.25	13.1	30	84.0	1.6	

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 16 Motors marked 208-230/460 volts may not meet all NEMA® (MG-1) performance standards when operated at 208 volts

Note 103 Does not accept brake kit

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) C-Face Footless

(continued)

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1 1/2	1800	208-230/460	56C	U32P2DFCR	$426	DS-3RST	1.25	13.1	30	86.5	4.5-4.3/2.1	03
	1800	208-230/460	145TC	U32P2DCR	$534	DS-3RST	1.25	13.1	35	86.5	4.5-4.3/2.1	03
	1800	575	56C	U32P2GFCR	$426	DS-3RST	1.25	13.1	30	86.5	1.7	
	1800	575	145TC	U32P2GCR	$534	DS-3RST	1.25	13.1	35	86.5	1.7	
	1200	208-230/460	182TC	U32P3DCR	$815	DS-3AL	1.25	16.2	60	87.5	4.8-4.7/2.3	03
2	3600	208-230/460	56C	T2P1ACR	$529	DS-3RST	1.15	13.6	35	85.5	6.0-5.6/2.8	04,16
	3600	575	56C	U2P1GFCR	$479	DS-3RST	1.25	13.1	30	86.5	2	
	1800	208-230/460	56C	U2P2DFCR	$467	DS-3RST	1.25	13.1	30	86.5	5.9-5.7/2.8	03
	1800	208-230/460	145TC	U2P2DCR	$578	DS-3RST	1.25	13.1	35	86.5	5.9-5.7/2.8	03
	1800	575	145TC	U2P2GCR	$578	DS-3RST	1.25	13.1	35	86.5	2.3	
	1200	208-230/460	184TC	U2P3DCR	$900	DS-3AL	1.15	16.9	70	88.5	6.4-6.2/3.1	03
3	3600	208-230/460	56C	T3P1ACR	$583	DS-3RST	1.15	14.1	40	86.5	7.9-6.7/3.4	
	3600	208-230/460	145TC	U3P1A14CR	$575	DS-3RST	1.25	13.9	34	86.5	7.4-7.5/3.7	04,16
	3600	208-230/460	182TC	U3P1DCR	$830	DS-3AL	1.25	16.2	60	87.5	8.4-7.8/3.9	03
	3600	208-230/460	182TCH	U3P1DKR	$830	DS-3AL	1.25	16.2	60	87.5	8.4-7.8/3.9	03
	3600	575	56C	U3P1GFCR	$551	DS-3RST	1.25	13.1	30	86.5	2.8	
	3600	575	145TC	U3P1GCR	$568	DS-3RST	1.25	13.1	35	86.5	2.8	
	1800	208-230/460	182TC	S3P2ACR	$607	DS-3RST	1.15	15.9	60	89.5	8.4-7.8/3.9	04,16
	1800	208-230/460	182TC	U3P2DCR	$742	DS-3AL	1.25	16.1	60	89.5	8.4-7.8/3.9	03
	1800	208-230/460	182TCH	U3P2DKR	$742	DS-3AL	1.25	16.2	60	89.5	8.4-7.8/3.9	03
	1800	575	182TC	S3P2GCR	$607	DS-3RST	1.15	15.9	60	89.5	3.2	04
	1800	575	182TC	U3P2GCR	$742	DS-3AL	1.25	16.2	60	89.5	3.2	
	1200	208-230/460	213TC	U3P3DCR	$1,105	DS-3AL	1.15	18.6	105	89.5	9.3-8.6/4.3	03
5	3600	208-230/460	184TC	S5P1ACR	$722	DS-3RST	1.15	15.9	70	88.5	13.6-12.1/6.1	04,16
	3600	208-230/460	184TC	U5P1DCR	$1,026	DS-3AL	1.15	16.9	70	88.5	13.4-12.2/6.1	03
	3600	208-230/460	184TCH	U5P1DKR	$1,026	DS-3AL	1.15	16.9	70	88.5	13.4-12.2/6.1	03
	3600	575	184TC	S5P1GCR	$722	DS-3RST	1.15	15.9	70	88.5	4.9	04
	1800	208-230/460	184TC	S5P2ACR	$722	DS-3RST	1.15	15.9	70	89.5	13.5-12.5/6.2	04,16
	1800	208-230/460	184TC	U5P2DCR	$852	DS-3AL	1.25	16.9	80	90.2	13.6-12.3/6.2	03
	1800	208-230/460	184TCH	U5P2DKR	$852	DS-3AL	1.25	16.9	70	90.2	13.6-12.3/6.2	03
	1800	575	184TC	S5P2GCR	$722	DS-3RST	1.15	15.9	70	89.5	4.9	04
	1800	575	184TC	U5P2GCR	$852	DS-3AL	1.25	16.9	70	89.5	5	
	1200	208-230/460	215TC	U5P3DCR	$1,552	DS-3AL	1.25	20.1	120	90.2	15-14/7	03
7 1/2	3600	208-230/460	213TC	S7P1ACR	$951	DS-3RST	1.15	19.4	105	89.5	19.9-17.9/9	04,16
	3600	208-230/460	213TC	U7P1DCR	$1,147	DS-3AL	1.25	18.6	105	91.0	19.9-17.8/8.9	03
	3600	575	213TC	S7P1GCR	$951	DS-3RST	1.15	19.4	105	89.5	7.2	04
	1800	208-230/460	213TC	S7P2ACR	$911	DS-3RST	1.15	19.4	105	91.7	20-18.1/9.1	04,16
	1800	208-230/460	213TC	U7P2DCR	$1,147	DS-3AL	1.25	18.6	110	91.7	20-18.2/9.1	03
	1800	575	213TC	S7P2GCR	$911	DS-3RST	1.15	19.4	105	91.7	7.2	04
	1800	575	213TC	U7P2GCR	$1,147	DS-3AL	1.25	18.6	105	91.7	7.2	
	1200	208-230/460	254TC	U7P3DCR	$2,087	DS-3AL	1.25	23.9	180	91.0	20.6-19/9.5	03

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 04 On 60 Hertz Sine Wave power

Note 16 Motors marked 208-230/460 volts may not meet all NEMA® (MG-1) performance standards when operated at 208 volts

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) C-Face Footless

(continued)

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
10	3600	208-230/460	215TC	S10P1ACR	$1,097	DS-3RST	1.15	19.4	120	90.2	26.5-23.5/11.7	04,16
	3600	208-230/460	215TC	U10P1DCR	$1,466	DS-3AL	1.25	20.1	120	91.0	26.4-23.5/11.8	03
	3600	575	215TC	S10P1GCR	$1,097	DS-3RST	1.15	19.4	120	90.2	9.4	04
	1800	208-230/460	215TC	S10P2ACR	$1,131	DS-3RST	1.15	19.4	120	91.7	26.6-24/12	04,16
	1800	208-230/460	215TC	U10P2DCR	$1,371	DS-3AL	1.25	20.1	133	91.7	26.5-23.9/12	03
	1800	575	215TC	S10P2GCR	$1,131	DS-3RST	1.15	19.4	120	91.7	9.5	04
	1800	575	215TC	U10P2GCR	$1,371	DS-3AL	1.25	20.1	120	91.7	9.6	
	1200	208-230/460	256TC	U10P3DCR	$2,498	DS-3AL	1.25	25.7	230	91.7	27.1-24.6/12.3	03
15	3600	230/460	254TC	S15P1ACR	$1,658	DS-3RST	1.15	27.7	180	91.0	35/17.3	
	3600	208-230/460	215TC	U15P1DFCR	$1,767	DS-3AL	1.25	20.1	120	91.0	40-35/17.4	03
	3600	208-230/460	254TC	U15P1DCR	$2,114	DS-3AL	1.25	23.9	180	91.0	39-35/17.5	03
	3600	575	254TC	S15P1GCR	$1,658	DS-3RST	1.15	27.7	180	91.0	13.9	
	1800	230/460	254TC	S15P2ACR	$1,655	DS-3RST	1.15	27.7	180	92.4	36/17.9	
	1800	208-230/460	254TC	U15P2DCR	$1,913	DS-3AL	1.15	23.9	180	92.4	40-37/18.4	03
	1800	575	254TC	S15P2GCR	$1,655	DS-3RST	1.15	27.7	180	92.4	14.4	
	1800	575	254TC	U15P2GCR	$1,913	DS-3AL	1.25	23.9	180	92.4	14.6	
20	3600	230/460	256TC	S20P1ACR	$2,025	DS-3RST	1.15	27.7	230	91.0	46/23	14
	3600	208-230/460	256TC	U20P1DCR	$2,590	DS-3AL	1.25	25.6	230	91.0	53-46/23.1	03
	3600	575	256TC	S20P1GCR	$2,025	DS-3RST	1.15	27.7	230	91.0	18.5	14
	1800	230/460	256TC	S20P2ACR	$2,013	DS-3RST	1.15	27.7	230	93.0	48/24	14
	1800	208-230/460	256TC	U20P2DCR	$2,331	DS-3AL	1.25	25.6	230	93.0	53-47/23.5	03
	1800	575	256TC	S20P2GCR	$2,013	DS-3RST	1.15	27.7	230	93.0	19.4	14
25	3600	208-230/460	284TC	U25P1DCR	$3,208	DS-3AL	1.25	28.3	280	91.7	65-57/28.4	03
	1800	208-230/460	284TC	U25P2DCR	$2,830	DS-3AL	1.25	28.3	280	93.6	65-59/29.3	03
30	1800	208-230/460	286TC	U30P2DCR	$3,273	DS-3AL	1.25	28.3	300	93.6	78-70/35	03

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

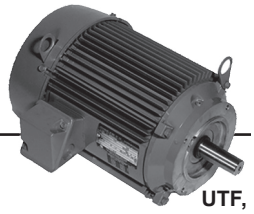
Note 04 On 60 Hertz Sine Wave power

Note 14 NEMA® Design A

Note 16 Motors marked 208-230/460 volts may not meet all NEMA® (MG-1) performance standards when operated at 208 volts

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) UNIMOUNT® NEMA®† Premium Efficient, C-Face Footless

NEMA Premium



UTF, FUTF

APPLICATIONS:

For general industrial equipment including fans, blowers, compressors, pumps and direct connected equipment.

FEATURES:

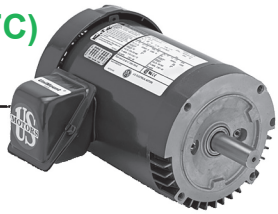
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- Shaft Slinger On Pulley End
- Full 50 & 60 Hertz Operating Data On Nameplate (03)
- Full HP @ 50 Hertz
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- Suitable For Wye-Delta Start 250 Frame & Larger
- Conversion Kits: C&D Flanges, Drip Cover and Brakes
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1 1/2	1200	208-230/460	182TC	U32P3DCR	$815	DS-3AL	1.25	16.2	60	87.5	4.8-4.7/2.3	03
2	1200	208-230/460	184TC	U2P3DCR	$900	DS-3AL	1.15	16.9	70	88.5	6.4-6.2/3.1	03
3	3600	208-230/460	182TC	U3P1DCR	$830	DS-3AL	1.25	16.2	60	87.5	8.4-7.8/3.9	03
	3600	208-230/460	182TCH	U3P1DKR	$830	DS-3AL	1.25	16.2	60	87.5	8.4-7.8/3.9	03
	1800	208-230/460	182TC	U3P2DCR	$742	DS-3AL	1.25	16.1	60	89.5	8.4-7.8/3.9	03
	1800	208-230/460	182TCH	U3P2DKR	$742	DS-3AL	1.25	16.2	60	89.5	8.4-7.8/3.9	03
	1800	575	182TC	U3P2GCR	$742	DS-3AL	1.25	16.2	60	89.5	3.2	
	1200	208-230/460	213TC	U3P3DCR	$1,105	DS-3AL	1.15	18.6	105	89.5	9.3-8.6/4.3	03
5	3600	208-230/460	184TC	U5P1DCR	$1,026	DS-3AL	1.15	16.9	70	88.5	13.4-12.2/6.1	03
	3600	208-230/460	184TCH	U5P1DKR	$1,026	DS-3AL	1.15	16.9	70	88.5	13.4-12.2/6.1	03
	1800	208-230/460	184TC	U5P2DCR	$852	DS-3AL	1.25	16.9	80	90.2	13.6-12.3/6.2	03
	1800	208-230/460	184TCH	U5P2DKR	$852	DS-3AL	1.25	16.9	70	90.2	13.6-12.3/6.2	03
	1800	575	184TC	U5P2GCR	$852	DS-3AL	1.25	16.9	70	89.5	5	
	1200	208-230/460	215TC	U5P3DCR	$1,552	DS-3AL	1.25	20.1	120	90.2	15-14/7	03
7 1/2	3600	208-230/460	213TC	U7P1DCR	$1,147	DS-3AL	1.25	18.6	105	91.0	19.9-17.8/8.9	03
	1800	208-230/460	213TC	U7P2DCR	$1,147	DS-3AL	1.25	18.6	110	91.7	20-18.2/9.1	03
	1800	575	213TC	U7P2GCR	$1,147	DS-3AL	1.25	18.6	105	91.7	7.2	
	1200	208-230/460	254TC	U7P3DCR	$2,087	DS-3AL	1.25	23.9	180	91.0	20.6-19/9.5	03,02
10	3600	208-230/460	215TC	U10P1DCR	$1,466	DS-3AL	1.25	20.1	120	91.0	26.4-23.5/11.8	03
	1800	208-230/460	215TC	U10P2DCR	$1,371	DS-3AL	1.25	20.1	133	91.7	26.5-23.9/12	03
	1800	575	215TC	U10P2GCR	$1,371	DS-3AL	1.25	20.1	120	91.7	9.6	
	1200	208-230/460	256TC	U10P3DCR	$2,498	DS-3AL	1.25	25.7	230	91.7	27.1-24.6/12.3	02,03
15	3600	208-230/460	215TC	U15P1DFCR	$1,767	DS-3AL	1.25	20.1	120	91.0	40-35/17.4	03
	3600	208-230/460	254TC	U15P1DCR	$2,114	DS-3AL	1.25	23.9	180	91.0	39-35/17.5	02,03
	1800	208-230/460	254TC	U15P2DCR	$1,913	DS-3AL	1.15	23.9	180	92.4	40-37/18.4	02,03
	1800	575	254TC	U15P2GCR	$1,913	DS-3AL	1.25	23.9	180	92.4	14.6	
20	3600	208-230/460	256TC	U20P1DCR	$2,590	DS-3AL	1.25	25.6	230	91.0	53-46/23.1	02,03
	1800	208-230/460	256TC	U20P2DCR	$2,331	DS-3AL	1.25	25.6	230	93.0	53-47/23.5	02,03
25	3600	208-230/460	284TC	U25P1DCR	$3,208	DS-3AL	1.25	28.3	280	91.7	65-57/28.4	02,03
	1800	208-230/460	284TC	U25P2DCR	$2,830	DS-3AL	1.25	28.3	280	93.6	65-59/29.3	02,03
30	1800	208-230/460	286TC	U30P2DCR	$3,273	DS-3AL	1.25	28.3	300	93.6	78-70/35	02,03

Note 02 Suitable for Wye-Delta start on voltages shown

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) STEEL EDGE® C-Face Footless



APPLICATIONS:

For general industrial equipment including fans, blowers, compressors, pumps and direct connected equipment.

FEATURES:

- Rolled Steel Frame
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- Shaft Slinger On Pulley End
- 40°C Ambient, NEMA® Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- Conversion Kits: C&D Flanges, Drip Cover and Brakes (140 Frame and Up)
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1/4	1800	208-230/460	56C	U14S2DCR	$231	DS-3RST	1.25	10.8	23	70.0	1-1/0.5	16
	1200	208-230/460	56C	T14S3DCR	$308	DS-3RST	1.15	11.3	27	75.5	1.4-1.4/0.7	103
1/3	3600	208-230/460	56C	T13S1ACR	$279	DS-3RST	1.15	10.8	32	74.6	1.7-1.8/0.9	103
	1800	208-230/460	42CZ	T13S2D42ZCR	$266	DS-3RST	1.00	10.4	9	65.0	1.5-1.5/0.75	
	1800	208-230/460	56C	U13S2ACR	$266	DS-3RST	1.25	10.8	25	75.5	1.2-1.2/0.6	16
	1800	575	56C	T13S2GCR	$266	DS-3RST	1.15	11.4	26	75.3	0.59	103
	1200	208-230/460	56C	T13S3DCR	$346	DS-3RST	1.15	11.3	32	77.0	1.6-1.6/0.80	103
1/2	3600	208-230/460	56C	T12S1ACR	$291	DS-3RST	1.15	10.9	32	64.0	2.18-2.18/1.09	103
	1800	208-230/460	56C	U12P2DCR	$378	DS-3RST	1.25	12.1	30	82.5	1.8-1.8/0.9	03
	1800	208-230/460	56C	U12S2ACR	$291	DS-3RST	1.25	10.8	25	75.5	1.8-1.7/0.9	16
	1800	575	56C	U12P2GCR	$378	DS-3RST	1.25	10.8	30	78.5	0.8	
	1200	208-230/460	56C	U12S3ACR	$378	DS-3RST	1.25	10.8	25	72.0	2.1-2.1/1	16
3/4	3600	208-230/460	56C	U34S1ACR	$304	DS-3RST	1.25	10.8	27	75.5	2.4-2.2/1.1	16
	1800	208-230/460	56C	U34P2DCR	$408	DS-3RST	1.25	12.1	30	84.0	2.3-2.3/1.1	03
	1800	208-230/460	56C	U34S2ACR	$314	DS-3RST	1.25	10.8	28	78.5	2.6-2.7/1.3	16
	1800	575	56C	U34P2GCR	$408	DS-3RST	1.25	10.8	30	81.5	1	
	1200	208-230/460	56C	U34S3ACR	$449	DS-3RST	1.15	12.8	32	80.4	3.1-3.2/1.6	103
	1200	575	56C	U34P3GCR	$566	DS-3RST	1.25	13.1	30	82.5	1.2	
1	3600	208-230/460	56C	U1P1DCR	$488	DS-3RST	1.25	13.1	30	81.5	2.9-2.7/1.4	03
	3600	575	56C	U1P1GCR	$488	DS-3RST	1.25	10.8	30	80.0	1.1	
	1800	208-230/460	56C	U1P2DFCR	$425	DS-3RST	1.25	13.1	30	85.5	3.1-3/1.5	03
	1800	208-230/460	143TC	U1P2DCR	$488	DS-3RST	1.15	12.1	30	85.5	3.1-3/1.5	03
	1800	575	56C	U1P2GFCR	$425	DS-3RST	1.25	13.1	30	85.5	1.1	
	1800	575	143TC	U1P2GCR	$488	DS-3RST	1.25	13.1	30	85.5	1.1	
	1200	575	56C	U1P3GFCR	$655	DS-3RST	1.25	13.4	35	82.5	1.4	
1 1/2	3600	208-230/460	56C	T32P1ACR	$485	DS-3RST	1.15	12.3	32	84.0	4.9-5.0/2.5	
	3600	208-230/460	143TC	U32P1A14CR	$552	DS-3RST	1.15	11.9	32	84.0	4.9-5.0/2.5	103
	3600	575	56C	U32P1GFCR	$647	DS-3RST	1.25	13.1	30	84.0	1.6	
	3600	575	143TC	U32P1GCR	$647	DS-3RST	1.25	13.1	30	84.0	1.6	
	1800	208-230/460	56C	U32P2DFCR	$426	DS-3RST	1.25	13.1	30	86.5	4.5-4.3/2.1	03
	1800	208-230/460	145TC	U32P2DCR	$534	DS-3RST	1.25	13.1	35	86.5	4.5-4.3/2.1	03
	1800	575	56C	U32P2GFCR	$426	DS-3RST	1.25	13.1	30	86.5	1.7	
	1800	575	145TC	U32P2GCR	$534	DS-3RST	1.25	13.1	35	86.5	1.7	

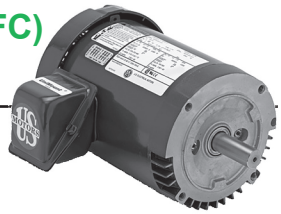
Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 16 Motors marked 208-230/460 volts may not meet all NEMA® (MG-1) performance standards when operated at 208 volts

Note 103 Does not accept brake kit

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) STEEL EDGE® C-Face Footless

(continued)



HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
2	3600	208-230/460	56C	T2P1ACR	$529	DS-3RST	1.15	13.6	35	85.5	6.0-5.6/2.8	04,16
	3600	575	56C	U2P1GFCR	$479	DS-3RST	1.25	13.1	30	86.5	2	
	1800	208-230/460	56C	U2P2DFCR	$467	DS-3RST	1.25	13.1	30	86.5	5.9-5.7/2.8	03
	1800	208-230/460	145TC	U2P2DCR	$578	DS-3RST	1.25	13.1	35	86.5	5.9-5.7/2.8	03
	1800	575	145TC	U2P2GCR	$578	DS-3RST	1.25	13.1	35	86.5	2.3	
3	3600	208-230/460	56C	T3P1ACR	$583	DS-3RST	1.15	14.1	40	86.5	7.9-6.7/3.4	
	3600	208-230/460	145TC	U3P1A14CR	$575	DS-3RST	1.25	13.9	34	86.5	7.4-7.5/3.7	04,16
	3600	575	56C	U3P1GFCR	$551	DS-3RST	1.25	13.1	30	86.5	2.8	
	3600	575	145TC	U3P1GCR	$568	DS-3RST	1.25	13.1	35	86.5	2.8	
	1800	208-230/460	182TC	S3P2ACR	$607	DS-3RST	1.15	15.9	60	89.5	8.4-7.8/3.9	04,16
	1800	575	182TC	S3P2GCR	$607	DS-3RST	1.15	15.9	60	89.5	3.2	04,16
5	3600	208-230/460	184TC	S5P1ACR	$722	DS-3RST	1.15	15.9	70	88.5	13.6-12.1/6.1	04,16
	3600	575	184TC	S5P1GCR	$722	DS-3RST	1.15	15.9	70	88.5	4.9	04
	1800	208-230/460	184TC	S5P2ACR	$722	DS-3RST	1.15	15.9	70	89.5	13.5-12.5/6.2	04,16
	1800	575	184TC	S5P2GCR	$722	DS-3RST	1.15	15.9	70	89.5	4.9	04
7 1/2	3600	208-230/460	213TC	S7P1ACR	$951	DS-3RST	1.15	19.4	105	89.5	19.9-17.9/9	04,16
	3600	575	213TC	S7P1GCR	$951	DS-3RST	1.15	19.4	105	89.5	7.2	04
	1800	208-230/460	213TC	S7P2ACR	$911	DS-3RST	1.15	19.4	105	91.7	20-18.1/9.1	04,16
	1800	575	213TC	S7P2GCR	$911	DS-3RST	1.15	19.4	105	91.7	7.2	04
10	3600	208-230/460	215TC	S10P1ACR	$1,097	DS-3RST	1.15	19.4	120	90.2	26.5-23.5/11.7	04,16
	3600	575	215TC	S10P1GCR	$1,097	DS-3RST	1.15	19.4	120	90.2	9.4	04
	1800	208-230/460	215TC	S10P2ACR	$1,131	DS-3RST	1.15	19.4	120	91.7	26.6-24/12	04,16
	1800	575	215TC	S10P2GCR	$1,131	DS-3RST	1.15	19.4	120	91.7	9.5	04
15	3600	230/460	254TC	S15P1ACR	$1,658	DS-3RST	1.15	27.7	180	91.0	35/17.3	
	3600	575	254TC	S15P1GCR	$1,658	DS-3RST	1.15	27.7	180	91.0	13.9	
	1800	230/460	254TC	S15P2ACR	$1,655	DS-3RST	1.15	27.7	180	92.4	36/17.9	
	1800	575	254TC	S15P2GCR	$1,655	DS-3RST	1.15	27.7	180	92.4	14.4	
20	3600	230/460	256TC	S20P1ACR	$2,025	DS-3RST	1.15	27.7	230	91.0	46/23	14
	3600	575	256TC	S20P1GCR	$2,025	DS-3RST	1.15	27.7	230	91.0	18.5	14
	1800	230/460	256TC	S20P2ACR	$2,013	DS-3RST	1.15	27.7	230	93.0	48/24	14
	1800	575	256TC	S20P2GCR	$2,013	DS-3RST	1.15	27.7	230	93.0	19.4	14

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 04 On 60 Hertz Sine Wave power

Note 14 NEMA® Design A

Note 16 Motors marked 208-230/460 volts may not meet all NEMA® (MG-1) performance standards when operated at 208 volts

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) World Motor HOSTILE DUTY® NEMA®† Premium Efficient

APPLICATIONS:

For pulp & paper plants, saw mills, mines, foundries, chemical plants, waste management facilities, and other process-related industries requiring protection within harsh operating conditions.

FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- Corrosion Resistant Mill & Chemical Duty Paint
- Cast Iron Frame, Cast Iron End Brackets
- Stainless Steel Nameplate & Zinc Plated Hardware
- Shaft Slinger On Pulley End For IP54 Protection
- Dual Voltage 230/460 Volts (1-100 HP)
- 40°C Ambient, NEMA®† Design B Performance On 60 Hz Sine Wave Power
- Self-Certified Class I, Division 2, Groups A, B, C, & D Double Shielded Bearings 140-360, Open on 400-440
- Steel Fan Cover & Conduit Box
- 1.15 Service Factor @ 60 Hz
- Field Convertible To F2 Mounting
- Condensation Drains With Plastic Plugs
- Conversion Kits: All Cast Iron Upgrade, C&D Flanges, Canopy Kits
- Bearing Caps On 400-440
- Suitable for 20:1 (3-60hz) Variable Torque On Inverter Power
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1	1800	200	143T	HD1P2H	$461	DS-3HDW	1.15	13.5	60	85.5	3.4/3.4	
	1800	230/460	143T	HD1P2E	$461	DS-3HDW	1.15	13.5	60	85.5	3/1.5	105,G
	1800	575	143T	HD1P2G	$461	DS-3HDW	1.15	13.5	60	85.5	1.2	
	1200	200	145T	HD1P3H	$588	DS-3HDW	1.15	13.5	70	82.5	4.1/4.1	
	1200	230/460	145T	HD1P3E	$588	DS-3HDW	1.15	13.5	70	82.5	3.7/1.8	105,G
	1200	575	145T	HD1P3G	$588	DS-3HDW	1.15	13.5	70	82.5	1.4	
	900	230/460	182T	HD1P4E	$840	DS-3HDW	1.15	16.3	80	75.5	4.5/2.3	105,G
1 1/2	3600	200	143T	HD32P1H	$513	DS-3HDW	1.15	13.5	50	84.0	4.5/4.4	
	3600	230/460	143T	HD32P1E	$513	DS-3HDW	1.15	13.5	50	84.0	4.2-3.9/1.9	105,G
	3600	575	143T	HD32P1G	$513	DS-3HDW	1.15	13.5	50	84.0	1.6	
	1800	200	145T	HD32P2H	$492	DS-3HDW	1.15	13.5	70	86.5	4.7/4.7	
	1800	230/460	145T	HD32P2E	$492	DS-3HDW	1.15	13.5	70	86.5	4.1/2.1	105,G
	1800	575	145T	HD32P2G	$492	DS-3HDW	1.15	13.5	70	86.5	1.6	
	1200	200	182T	HD32P3H	$662	DS-3HDW	1.15	16.3	90	87.5	5.1/5.1	
	1200	230/460	182T	HD32P3E	$662	DS-3HDW	1.15	16.3	90	87.5	4.5/2.2	105,G
	1200	575	182T	HD32P3G	$662	DS-3HDW	1.15	16.3	90	87.5	1.8	
	900	230/460	184T	HD32P4E	$1,025	DS-3HDW	1.15	16.3	100	78.5	6.3/3.1	105,G
2	3600	200	145T	HD2P1H	$533	DS-3HDW	1.15	13.5	50	85.5	5.7/5.6	
	3600	230/460	145T	HD2P1E	$533	DS-3HDW	1.15	13.5	50	85.5	5/2.5	105,G
	3600	575	145T	HD2P1G	$533	DS-3HDW	1.15	13.5	50	86.5	2	
	1800	200	145T	HD2P2H	$541	DS-3HDW	1.15	13.5	70	86.5	6.2/6.1	
	1800	230/460	145T	HD2P2E	$541	DS-3HDW	1.15	13.5	70	86.5	5.3/2.7	105,G
	1800	575	145T	HD2P2G	$541	DS-3HDW	1.15	13.5	70	86.5	2.1	
	1200	200	184T	HD2P3H	$755	DS-3HDW	1.15	16.3	100	88.5	7/7	
	1200	230/460	184T	HD2P3E	$755	DS-3HDW	1.15	16.3	100	88.5	6.2/3.1	105,G
	1200	575	184T	HD2P3G	$755	DS-3HDW	1.15	16.3	100	88.5	2.5	
	900	230/460	213T	HD2P4E	$1,045	DS-3HDW	1.15	19.6	120	84.0	6.6/3.3	105,G
3	3600	200	182T	HD3P1H	$619	DS-3HDW	1.15	16.3	70	86.5	9.3	
	3600	230/460	182T	HD3P1E	$619	DS-3HDW	1.15	16.3	70	86.5	8.2/4.1	105,G
	3600	575	182T	HD3P1G	$619	DS-3HDW	1.15	16.3	80	86.5	3.3	
	1800	200	182T	HD3P2H	$590	DS-3HDW	1.15	16.3	90	89.5	8.8/8.6	
	1800	230/460	182T	HD3P2E	$590	DS-3HDW	1.15	16.3	90	89.5	7.8/3.9	105,G
	1800	575	182T	HD3P2G	$590	DS-3HDW	1.15	16.3	100	89.5	3.1	
	1200	200	213T	HD3P3H	$940	DS-3HDW	1.15	19.6	150	89.5	9.8/9.6	
	1200	230/460	213T	HD3P3E	$940	DS-3HDW	1.15	19.6	150	89.5	8.6/4.3	105,G
	1200	575	213T	HD3P3G	$940	DS-3HDW	1.15	19.6	150	90.2	3.5	
	900	230/460	215T	HD3P4E	$1,457	DS-3HDW	1.15	19.6	150	85.5	10.4/5.2	105,G

Note 105 208 Volt Suitable

Note G 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 200/400 volt 50 Hz, 460V 60 Hz ratings operate on 400V 50 Hz; Full 60 & 50 Hz data on Nameplate

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC)
World Motor HOSTILE DUTY® NEMA®† Premium Efficient

(continued)

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
5	3600	200	184T	HD5P1H	$734	DS-3HDW	1.15	16.3	90	88.5	14.1/13.8	
	3600	230/460	184T	HD5P1E	$734	DS-3HDW	1.15	16.3	90	88.5	12.3/6.1	105,G
	3600	575	184T	HD5P1G	$734	DS-3HDW	1.15	16.3	90	88.5	4.9	
	1800	200	184T	HD5P2H	$673	DS-3HDW	1.15	16.3	100	89.5	14.5/14.2	
	1800	230/460	184T	HD5P2E	$673	DS-3HDW	1.15	16.3	100	89.5	12.7/6.3	105,G
	1800	575	184T	HD5P2G	$673	DS-3HDW	1.15	16.3	110	89.5	5.1	
	1200	200	215T	HD5P3H	$1,213	DS-3HDW	1.15	19.6	170	89.5	16.4/16.3	
	1200	230/460	215T	HD5P3E	$1,213	DS-3HDW	1.15	19.6	170	89.5	14.2/7.1	105,G
	1200	575	215T	HD5P3G	$1,213	DS-3HDW	1.15	19.6	170	89.5	5.7	
	900	230/460	254T	HD5P4E	$1,899	DS-3HDW	1.15	24.9	220	86.5	15/7.5	02,105,G
7 1/2	3600	200	213T	HD7P1H	$955	DS-3HDW	1.15	19.6	130	89.5	20.8/20.1	
	3600	230/460	213T	HD7P1E	$955	DS-3HDW	1.15	19.6	130	89.5	18.1/9	105,G
	3600	575	213T	HD7P1G	$955	DS-3HDW	1.15	19.6	130	89.5	7.2	
	1800	200	213T	HD7P2H	$917	DS-3HDW	1.15	19.6	150	91.7	22/21.6	
	1800	230/460	213T	HD7P2E	$917	DS-3HDW	1.15	19.6	150	91.7	19.1/9.6	105,G
	1800	575	213T	HD7P2G	$917	DS-3HDW	1.15	19.6	160	91.7	7.8	
	1200	230/460	254T	HD7P3E	$1,629	DS-3HDW	1.15	24.9	300	91.0	18.8/9.4	105,G
	1200	575	254T	HD7P3G	$1,629	DS-3HDW	1.15	24.9	240	91.0	7.6	
	900	230/460	256T	HD7P4E	$2,476	DS-3HDW	1.15	24.9	250	86.5	22.3/11.1	02,105,G
10	3600	200	215T	HD10P1H	$1,114	DS-3HDW	1.15	19.6	140	90.2	27/25.9	
	3600	230/460	215T	HD10P1E	$1,114	DS-3HDW	1.15	19.6	140	90.2	23.5/11.8	105,G
	3600	575	215T	HD10P1G	$1,114	DS-3HDW	1.15	19.6	140	90.2	9.3	
	1800	200	215T	HD10P2H	$1,142	DS-3HDW	1.15	19.6	170	91.7	29.3/29	
	1800	230/460	215T	HD10P2E	$1,142	DS-3HDW	1.15	19.6	160	91.7	27.5-25.7/12.8	105,G
	1800	575	215T	HD10P2G	$1,142	DS-3HDW	1.15	19.6	170	91.7	10.3	
	1200	230/460	256T	HD10P3E	$1,936	DS-3HDW	1.15	24.9	340	91.0	24.9/12.4	105,G
	1200	575	256T	HD10P3G	$1,936	DS-3HDW	1.15	24.9	260	91.0	10	
	900	230/460	284T	HD10P4E	$2,883	DS-3HDW	1.15	27.5	310	89.5	28.3/14.2	02,105,G
15	3600	200	254T	HD15P1H	$1,568	DS-3HDW	1.15	24.9	250	91.0	40/38	
	3600	230/460	254T	HD15P1E	$1,568	DS-3HDW	1.15	24.9	250	91.0	35/17.4	105,G
	3600	575	254T	HD15P1G	$1,568	DS-3HDW	1.15	24.9	260	91.0	13.9	
	1800	200	254T	HD15P2H	$1,528	DS-3HDW	1.15	24.9	250	92.4	41	02
	1800	230/460	254T	HD15P2E	$1,528	DS-3HDW	1.15	24.9	250	92.4	40-36/18	02,105,G
	1800	575	254T	HD15P2G	$1,528	DS-3HDW	1.15	24.9	290	92.4	14.5	02
	1200	230/460	284T	HD15P3E	$2,558	DS-3HDW	1.15	27.5	310	91.7	37/18.5	105,G
	1200	575	284T	HD15P3G	$2,558	DS-3HDW	1.15	27.5	310	91.7	14.7	
	900	230/460	286T	HD15P4E	$3,773	DS-3HDW	1.15	27.5	370	89.5	42/20.9	02,105,G
20	3600	200	256T	HD20P1H	$1,944	DS-3HDW	1.15	24.9	260	91.0	53/51	
	3600	230/460	256T	HD20P1E	$1,944	DS-3HDW	1.15	24.9	260	91.0	46/23	02,105,G
	3600	575	256T	HD20P1G	$1,944	DS-3HDW	1.15	24.9	270	91.0	18.4	
	1800	200	256T	HD20P2H	$1,901	DS-3HDW	1.15	24.9	280	93.0	55/53	02
	1800	230/460	256T	HD20P2E	$1,901	DS-3HDW	1.15	24.9	280	93.0	47/23.7	02,105,G
	1800	575	256T	HD20P2G	$1,901	DS-3HDW	1.15	24.9	290	93.0	18.9	02
	1200	230/460	286T	HD20P3E	$3,144	DS-3HDW	1.15	27.5	350	91.7	49/24.4	02,105,G
	1200	575	286T	HD20P3G	$3,144	DS-3HDW	1.15	27.5	350	91.7	19.6	
	900	230/460	324T	HD20P4E	$4,054	DS-3HDW	1.15	30.1	600	91.0	59-53/26.6	02,105,G
25	3600	200	284TS	HD25P1HS	$2,311	DS-3HDW	1.15	26.1	325	91.7	66/63	
	3600	230/460	284T	HD25P1E	$2,311	DS-3HDW	1.15	27.5	310	91.7	58/28.8	105,G
	3600	230/460	284TS	HD25P1ES	$2,311	DS-3HDW	1.15	26.1	310	91.7	58/28.8	105,G

Note 02 Suitable for Wye-Delta start on voltages shown
Note 105 208 Volt Suitable

Note G 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 200/400 volt 50 Hz, 460V 60 Hz ratings operate on 400V 50 Hz; Full 60 & 50 Hz data on Nameplate

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) World Motor HOSTILE DUTY® NEMA®† Premium Efficient

(continued)

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
25	3600	575	284TS	HD25P1GS	$2,311	DS-3HDW	1.15	26.1	310	91.7	23	
	1800	200	284T	HD25P2H	$2,236	DS-3HDW	1.15	27.5	335	93.6	67/66	02
	1800	230/460	284T	HD25P2E	$2,236	DS-3HDW	1.15	27.5	330	93.6	58/29.2	02,105,G
	1800	230/460	284TS	HD25P2ES	$2,236	DS-3HDW	1.15	26.1	330	93.6	58/29.2	02,105,G
	1800	575	284T	HD25P2G	$2,236	DS-3HDW	1.15	27.5	330	93.6	23.3	02
	1200	230/460	324T	HD25P3E	$4,017	DS-3HDW	1.15	30.1	490	93.0	59/29.3	105,G
	1200	575	324T	HD25P3G	$4,017	DS-3HDW	1.15	30.1	490	93.0	23.4	
	900	230/460	326T	HD25P4E	$5,269	DS-3HDW	1.15	30.1	625	91.0	74-66/33	02,105,G
30	3600	200	286TS	HD30P1HS	$2,772	DS-3HDW	1.15	26.1	325	91.7	80/77	02
	3600	230/460	286T	HD30P1E	$2,772	DS-3HDW	1.15	27.5	310	91.7	69/35	105,G
	3600	230/460	286TS	HD30P1ES	$2,772	DS-3HDW	1.15	26.1	310	91.7	69/35	105,G
	3600	575	286TS	HD30P1GS	$2,772	DS-3HDW	1.15	26.1	310	91.7	27.7	
	1800	200	286T	HD30P2H	$2,655	DS-3HDW	1.15	27.5	345	93.6	82/81	02
	1800	230/460	286T	HD30P2E	$2,655	DS-3HDW	1.15	27.5	340	93.6	70/35	02,105,G
	1800	230/460	286TS	HD30P2ES	$2,655	DS-3HDW	1.15	26.1	340	93.6	70/35	02,105,G
	1800	575	286T	HD30P2G	$2,655	DS-3HDW	1.15	27.5	340	93.6	28.1	02
	1200	230/460	326T	HD30P3E	$4,569	DS-3HDW	1.15	30.1	520	92.4	70/35	105,G
	1200	575	326T	HD30P3G	$4,569	DS-3HDW	1.15	30.1	520	93.0	28	
	900	230/460	364T	HD30P4E	$5,891	DS-3HDW	1.15	32.3	740	91.7	87-81/40	02,105,G
40	3600	200	324TS	HD40P1HS	$3,268	DS-3HDW	1.15	28.6	410	92.4	107/102	
	3600	230/460	324TS	HD40P1ES	$3,268	DS-3HDW	1.15	28.6	410	92.4	92/46	105,G
	3600	575	324TS	HD40P1GS	$3,268	DS-3HDW	1.15	28.6	410	92.4	37	
	1800	200	324T	HD40P2H	$3,169	DS-3HDW	1.15	30.1	450	94.1	106/104	
	1800	230/460	324T	HD40P2E	$3,169	DS-3HDW	1.15	30.1	450	94.1	92/46	02,105,G
	1800	230/460	324TS	HD40P2ES	$3,169	DS-3HDW	1.15	28.6	450	94.1	92/46	02,105,G
	1800	575	324T	HD40P2G	$3,169	DS-3HDW	1.15	30.1	450	94.1	37	02
	1200	200	364T	HD40P3H	$5,062	DS-3HDW	1.15	32.3	630	94.1	108/106	02
	1200	230/460	364T	HD40P3E	$5,062	DS-3HDW	1.15	32.3	630	94.1	94/47	02,105,G
	1200	575	364T	HD40P3G	$5,062	DS-3HDW	1.15	32.3	630	94.1	37	02
	900	230/460	365T	HD40P4E	$7,340	DS-3HDW	1.15	32.3	910	92.4	116-105/53	02,105,G
	900	230/460	365T	HD40P4E	$7,340	DS-3HDW	1.15	32.3	910	92.4	105/53	02,105,G
50	3600	200	326TS	HD50P1HS	$4,379	DS-3HDW	1.15	28.6	480	93.0	129/123	
	3600	230/460	326TS	HD50P1ES	$4,379	DS-3HDW	1.15	28.6	480	93.0	112/56	105,G
	3600	575	326TS	HD50P1GS	$4,379	DS-3HDW	1.15	28.6	480	93.0	45	
	1800	200	326T	HD50P2H	$3,934	DS-3HDW	1.15	30.1	550	94.5	128/123	02
	1800	230/460	326T	HD50P2E	$3,934	DS-3HDW	1.15	30.1	550	94.5	112/56	02,105,G
	1800	230/460	326TS	HD50P2ES	$3,934	DS-3HDW	1.15	28.6	550	94.5	112/56	02,105,G
	1800	575	326T	HD50P2G	$3,934	DS-3HDW	1.15	30.1	550	94.5	45	02
	1200	200	365T	HD50P3H	$6,295	DS-3HDW	1.15	32.3	680	94.1	134/130	02
	1200	230/460	365T	HD50P3E	$6,295	DS-3HDW	1.15	32.3	680	94.1	117/59	02,105,G
	1200	575	365T	HD50P3G	$6,295	DS-3HDW	1.15	32.3	680	94.1	47	02
	1200	575	365T	HD50P3G	$6,295	DS-3HDW	1.15	32.3	680	94.1	47	02
60	3600	200	364TS	HD60P1HS	$5,631	DS-3HDW	1.15	30.2	560	93.6	158/154	02
	3600	230/460	364TS	HD60P1ES	$5,631	DS-3HDW	1.15	30.2	560	93.6	136/69	02,105,G
	3600	575	364TS	HD60P1GS	$5,631	DS-3HDW	1.15	30.2	560	93.6	55	02
	1800	200	364T	HD60P2H	$5,504	DS-3HDW	1.15	32.3	640	95.0	158/153	02
	1800	230/460	364T	HD60P2E	$5,504	DS-3HDW	1.15	32.3	640	95.0	137/68	02,105,G
	1800	230/460	364TS	HD60P2ES	$5,504	DS-3HDW	1.15	30.2	640	95.0	137/68	02,105,G
	1800	575	364T	HD60P2G	$5,504	DS-3HDW	1.15	32.3	640	95.0	55	02
	1200	230/460	404T	HD60P3E	$7,406	DS-3HDW	1.15	37.6	940	94.5	141/71	02,105,G
	1200	575	404T	HD60P3G	$7,406	DS-3HDW	1.15	37.6	940	94.5	57	02

Note 02 Suitable for Wye-Delta start on voltages shown
Note 105 208 Volt Suitable

Note G 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 200/400 volt 50 Hz, 460V 60 Hz ratings operate on 400V 50 Hz; Full 60 & 50 Hz data on Nameplate

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC)
World Motor HOSTILE DUTY® NEMA®† Premium Efficient

(continued)

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
75	3600	200	365TS	HD75P1HS	$7,251	DS-3HDW	1.15	30.2	650	93.6	190/184	02
	3600	230/460	365TS	HD75P1ES	$7,251	DS-3HDW	1.00	30.2	650	94.1	165/83	02,105,G
	3600	575	365TS	HD75P1GS	$7,251	DS-3HDW	1.15	30.2	650	94.1	66	02
	1800	200	365T	HD75P2H	$6,720	DS-3HDW	1.15	32.3	700	95.4	196/190	02
	1800	230/460	365T	HD75P2E	$6,720	DS-3HDW	1.15	32.3	700	95.4	170/85	02,105,G
	1800	230/460	365T	HD75P2EB	$6,720	DS-3HDW	1.15	32.3	560	95.4	170/85	02,09
	1800	230/460	365TS	HD75P2ES	$6,720	DS-3HDW	1.15	30.2	700	95.4	170/85	02,105,G
	1800	575	365T	HD75P2G	$6,720	DS-3HDW	1.15	32.3	700	95.4	68	02
	1200	230/460	405T	HD75P3E	$8,811	DS-3HDW	1.15	37.6	970	94.5	178/89	02,105,G
	1200	230/460	405T	HD75P3EB	$8,811	DS-3HDW	1.15	37.6	970	94.5	178/89	105,G
	1200	575	405T	HD75P3G	$8,811	DS-3HDW	1.15	37.6	970	94.5	71	02
100	3600	230/460	405TS	HD100P1ES	$9,720	DS-3HDW	1.15	34.6	900	94.1	228/114	02,105,G
	3600	575	405TS	HD100P1GS	$9,720	DS-3HDW	1.15	34.6	920	94.1	91	02
	1800	200	405T	HD100P2H	$8,811	DS-3HDW	1.15	37.7	1040	95.4	259/251	02
	1800	200	405TS	HD100P2HS	$8,811	DS-3HDW	1.15	34.6	1040	95.4	259/251	02
	1800	230/460	405T	HD100P2E	$8,811	DS-3HDW	1.15	37.7	980	95.4	229/115	02,105,G
	1800	230/460	405T	HD100P2EB	$8,811	DS-3HDW	1.15	37.7	980	95.4	229/115	02,09,105,G
	1800	230/460	405TS	HD100P2ES	$8,811	DS-3HDW	1.15	34.6	980	95.4	229/115	02,105,G
	1800	575	405T	HD100P2G	$8,811	DS-3HDW	1.15	37.6	1010	95.4	91	02
	1200	230/460	444T	HD100P3E	$11,829	DS-3HDW	1.15	44.4	1450	95.0	240/120	02,105,G
	1200	230/460	444T	HD100P3EB	$11,829	DS-3HDW	1.15	44.4	1450	95.0	240/120	02,09,105,G
	1200	575	444T	HD100P3G	$11,829	DS-3HDW	1.15	44.4	1500	95.0	95	02
125	3600	460	444TS	HD125P1FS	$12,171	DS-3HDW	1.15	40.6	1300	95.0	142	02,G
	3600	575	444TS	HD125P1GS	$12,171	DS-3HDW	1.15	40.6	1360	95.0	113	02
	1800	460	444T	HD125P2F	$11,431	DS-3HDW	1.15	44.4	1260	95.8	141	02,G
	1800	460	444T	HD125P2FB	$11,431	DS-3HDW	1.15	44.4	1260	95.8	141	02,09,G
	1800	460	444TS	HD125P2FS	$11,431	DS-3HDW	1.15	40.6	1260	95.8	141	02,G
	1800	575	444T	HD125P2G	$11,431	DS-3HDW	1.15	44.4	1310	95.4	114	02
	1200	460	445T	HD125P3F	$14,691	DS-3HDW	1.15	44.4	1500	95.0	153	02,G
	1200	460	445T	HD125P3FB	$14,691	DS-3HDW	1.15	44.4	1500	95.0	153	02,09,G
	1200	575	445T	HD125P3G	$14,691	DS-3HDW	1.15	44.4	1550	95.0	125	02
150	3600	460	445TS	HD150P1FS	$15,429	DS-3HDW	1.15	40.6	1410	95.0	167	02,G
	3600	575	445TS	HD150P1GS	$15,429	DS-3HDW	1.15	40.6	1460	95.0	133	02
	1800	460	445T	HD150P2F	$13,766	DS-3HDW	1.15	44.4	1480	95.8	171	02,G
	1800	460	445T	HD150P2FB	$13,766	DS-3HDW	1.15	44.4	1480	95.8	171	02,09,G
	1800	460	445TS	HD150P2FS	$13,766	DS-3HDW	1.15	40.6	1480	95.8	171	02,G
	1800	575	445T	HD150P2G	$13,766	DS-3HDW	1.15	44.4	1530	95.8	136	02
	1200	460	447T	HD150P3F	$16,800	DS-3HDW	1.15	47.9	1760	95.8	179	02,G
	1200	460	447T	HD150P3FB	$16,800	DS-3HDW	1.15	47.9	1760	95.8	179	02,09,G
	1200	575	447T	HD150P3G	$16,800	DS-3HDW	1.15	47.9	1810	95.8	143	02
	1200	575	447T	HD150P3GB	$17,304	DS-3HDW	1.15	47.9	1810	95.8	143	02,09
200	3600	460	447TS	HD200P1FS	$21,086	DS-3HDW	1.15	44.1	1600	95.4	222	02,G
	3600	575	447TS	HD200P1GS	$21,719	DS-3HDW	1.15	44.1	1690	95.4	178	02
	1800	460	447T	HD200P2F	$17,829	DS-3HDW	1.15	47.9	1710	96.2	225	02,G
	1800	460	447T	HD200P2FB	$17,829	DS-3HDW	1.15	47.9	1710	96.2	225	02,09,G
	1800	460	447TS	HD200P2FS	$17,829	DS-3HDW	1.15	44.1	1710	96.2	225	02,G
	1800	575	447T	HD200P2G	$19,320	DS-3HDW	1.15	47.9	1760	96.2	181	02
	1800	575	447TS	HD200P2GS	$18,364	DS-3HDW	1.15	44.13	1760	95.8	181	02

Note 02 Suitable for Wye-Delta start on voltages shown
Note 09 Cylindrical Roller Bearing
Note 105 208 Volt Suitable

Note G 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 200/400 volt 50 Hz, 460V 60 Hz ratings operate on 400V 50 Hz; Full 60 & 50 Hz data on Nameplate

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) World Motor HOSTILE DUTY® NEMA®† Premium Efficient C-Face

APPLICATIONS:

For pulp & paper plants, saw mills, mines, foundries, chemical plants, waste management facilities, and other process-related industries requiring protection within harsh operating conditions.

FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- Corrosion Resistant Mill & Chemical Duty Paint
- Cast Iron Frame, Cast Iron End Brackets
- Stainless Steel Nameplate & Zinc Plated Hardware
- IP54 Protection
- Dual Voltage 230/460 Volts (1-100 HP)
- 40°C Ambient, NEMA®† Design B Performance On 60 Hz Sine Wave Power
- Regreasable Ball Bearings 250 Frame & Up, Lifting Provisions
- Double Shielded Bearings 140-360, Open On 400-440
- Pulley End Clamping Plate
- 1.15 Service Factor @ 60 Hz
- Suitable for 20:1 (3-60hz) Variable Torque On Inverter Power
- Steel Fan Cover & Conduit Box
- Field Convertible To F2 Mounting
- Condensation Drains With Plastic Plugs
- Conversion Kits: All Cast Iron Upgrade, C&D Flanges, Canopy Kits
- Self-Certified Class I, Division 2, Groups A, B, C, & D
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1	1800	230/460	143TC	HD1P2EC	$556	DS-3HDW	1.15	14.0	60	85.5	3/1.5	105,G
	1200	230/460	145TC	HD1P3EC	$683	DS-3HDW	1.15	14.0	70	82.5	3.7/1.8	105,G
1 1/2	3600	230/460	143TC	HD32P1EC	$608	DS-3HDW	1.15	14.0	50	84.0	3.9/1.9	105,G
	1800	230/460	145TC	HD32P2EC	$587	DS-3HDW	1.15	14.0	70	86.5	4.1/2.1	105,G
	1200	230/460	182TC	HD32P3EC	$792	DS-3HDW	1.15	17.1	90	87.5	4.5/2.2	105,G
2	3600	230/460	145TC	HD2P1EC	$628	DS-3HDW	1.15	14.0	50	85.5	5/2.5	105,G
	1800	230/460	145TC	HD2P2EC	$636	DS-3HDW	1.15	14.0	70	86.5	5.3/2.7	105,G
	1200	230/460	184TC	HD2P3EC	$885	DS-3HDW	1.15	17.1	110	88.5	6.2/3.1	105,G
3	3600	230/460	182TC	HD3P1EC	$749	DS-3HDW	1.15	17.1	80	86.5	8.2/4.1	105,G
	1800	230/460	182TC	HD3P2EC	$720	DS-3HDW	1.15	17.1	100	89.5	7.8/3.9	105,G
	1200	230/460	213TC	HD3P3EC	$1,095	DS-3HDW	1.15	20.4	170	89.5	8.6/4.3	105,G
5	3600	230/460	184TC	HD5P1EC	$864	DS-3HDW	1.15	17.1	90	88.5	12.3/6.1	105,G
	1800	230/460	184TC	HD5P2EC	$803	DS-3HDW	1.15	17.1	110	89.5	12.7/6.3	105,G
	1200	230/460	215TC	HD5P3EC	$1,339	DS-3HDW	1.15	20.4	180	89.5	14.2/7.1	105,G
7 1/2	3600	230/460	213TC	HD7P1EC	$1,110	DS-3HDW	1.15	20.4	140	89.5	18.1/9	105,G
	1800	230/460	213TC	HD7P2EC	$1,071	DS-3HDW	1.15	20.4	160	91.7	19.1/9.6	105,G
	1200	230/460	254TC	HD7P3EC	$1,804	DS-3HDW	1.15	25.4	250	91.0	18.8/9.4	105,G
10	3600	230/460	215TC	HD10P1EC	$1,269	DS-3HDW	1.15	20.4	160	90.2	23.5/11.8	105,G
	1800	230/460	215TC	HD10P2EC	$1,297	DS-3HDW	1.15	20.4	180	91.7	25.7/12.8	105,G
	1200	230/460	256TC	HD10P3EC	$2,111	DS-3HDW	1.15	25.4	270	91.0	24.9/12.4	105,G
15	3600	230/460	254TC	HD15P1EC	$1,743	DS-3HDW	1.15	25.4	260	91.0	34/17.2	105,G
	1800	230/460	254TC	HD15P2EC	$1,703	DS-3HDW	1.15	25.4	260	92.4	40-36/18	105,G
	1200	230/460	284TC	HD15P3EC	$2,858	DS-3HDW	1.15	27.5	330	91.7	37/18.5	02,105,G
20	3600	230/460	256TC	HD20P1EC	$2,119	DS-3HDW	1.15	25.4	270	91.0	46/23	105,G
	1800	230/460	256TC	HD20P2EC	$2,076	DS-3HDW	1.15	25.4	290	93.0	47/23.7	02,105,G
	1200	230/460	286TC	HD20P3EC	$3,444	DS-3HDW	1.15	27.5	370	91.7	49/24.4	105,G
25	3600	230/460	284TSC	HD25P1ESC	$2,611	DS-3HDW	1.15	26.1	320	91.7	58/28.8	105,G
	1800	230/460	284TC	HD25P2EC	$2,536	DS-3HDW	1.15	27.5	350	93.6	58/29.2	02,105,G
30	3600	230/460	286TSC	HD30P1ESC	$3,072	DS-3HDW	1.15	26.1	320	91.7	69/35	105,G
	1800	230/460	286TC	HD30P2EC	$2,955	DS-3HDW	1.15	27.5	360	93.6	70/35	02,105,G
40	1800	230/460	324TC	HD40P2EC	$3,569	DS-3HDW	1.15	30.1	470	94.1	92/46	02,105,G
50	1800	230/460	326TC	HD50P2EC	$4,334	DS-3HDW	1.15	30.1	570	94.5	112/56	02,105,G
60	1800	230/460	364TC	HD60P2EC	$6,124	DS-3HDW	1.15	32.3	660	95.0	137/68	02,105,G
75	1800	230/460	365TC	HD75P2EC	$7,340	DS-3HDW	1.15	32.3	720	95.4	170/85	02,105,G
100	1800	230/460	405TC	HD100P2EC	$9,491	DS-3HDW	1.15	37.7	1000	95.4	229/115	02,105,G

Note 02 Suitable for Wye-Delta start on voltages shown
Note 105 208 Volt Suitable
Note G 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 200/400 volt 50 Hz, 460V 60 Hz ratings operate on 400V 50 Hz; Full 60 & 50 Hz data on Nameplate

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) World Motor HOSTILE DUTY® IEC, IE3 Efficiency

APPLICATIONS:

For pulp & paper plants, saw mills, mines, foundries, chemical plants, waste management facilities, and other process-related industries

FEATURES:

- Class F Insulation, Class B Rise At Full Load On 50 Hertz Sine Wave Power
- Corrosion Resistant Mill & Chemical Duty Paint
- Cast Iron Frame, Cast Iron End Brackets, Cast Iron Conduit Box
- Terminal Block in Conduit Box
- Stainless Steel Nameplate (with CE Mark) & Zinc Plated Hardware
- Shaft Seals For IP55 Protection
- Wye/Delta Dual Voltage 230/400 Volts
- 40°C Ambient
- IEC Design N
- Regreasable Ball Bearings 160 Frame & Up
- Horizontal Lifting Provisions
- Self-Certified Zone 2, Groups IIA, IIB, IIC
- Div. 2, Class I Group A, B, C & D, Class II Group F
- T3 T-Code
- Double Shielded Bearings 90-225, Open On 250-280
- 1.0 Service Factor
- Steel Fan Cover
- F3 Assembly Position
- Condensation Drains With Plastic Plugs
- Conversion Kits: All Cast Iron Upgrade, B5 & B14 Flanges, Canopy Kits
- Bearing Caps On 250-280
- Suitable for 20:1 Variable Torque; 2:1 Constant Torque On Inverter Power

KW(HP)	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"L" Dim. (mm)	Ship Wt. (kg)	Full Load Eff.	Full Load Amps	Notes
0.75 (1)	3000	230/400	90SL	MHD0075P1Y	$620	DS-3HDI	1.0	334	25	83.8	2.7 / 1.6	
0.75 (1)	1500	230/400	90SL	MHD0075P2Y	$557	DS-3HDI	1.0	334	30	82.5	2.9 / 1.7	
0.75 (1)	1000	230/400	90SL	MHD0075P3Y	$711	DS-3HDI	1.0	334	34	78.9	3.5 / 2.0	
1.1 (1)	3000	230/400	90SL	MHD011P1Y	$620	DS-3HDI	1.0	334	25	83	4.0 / 2.3	
1.1 (1)	1500	230/400	90SL	MHD011P2Y	$595	DS-3HDI	1.0	334	30	84.2	4.1 / 2.4	
1.1 (1)	1000	230/400	90SL	MHD011P3Y	$799	DS-3HDI	1.0	334	34	81	5.1 / 3.0	
1.5 (2)	3000	230/400	90SL	MHD015P1Y	$759	DS-3HDI	1.0	334	30	84.2	5.2 / 3.0	
1.5 (2)	1500	230/400	90SL	MHD015P2Y	$653	DS-3HDI	1.0	334	34	85.3	5.5 / 3.2	
1.5 (2)	1000	230/400	112SM	MHD015P3Y	$912	DS-3HDI	1.0	405	45	82.5	6.1 / 3.5	
2.2 (3)	3000	230/400	90SL	MHD022P1Y	$748	DS-3HDI	1.0	334	30	86.1	7.3 / 4.2	
2.2 (3)	1500	230/400	112SM	MHD022P2Y	$713	DS-3HDI	1.0	405	45	86.7	8.0 / 4.6	
2.2 (3)	1000	230/400	112SM	MHD022P3Y	$1,135	DS-3HDI	1.0	425	55	84.3	9.0 / 5.2	
3 (4)	3000	230/400	112SM	MHD03P1Y	$818	DS-3HDI	1.0	405	45	87.1	10.7 / 6.2	
3 (4)	1500	230/400	112SM	MHD03P2Y	$764	DS-3HDI	1.0	405	50	87.1	10.7 / 6.2	
3 (4)	1000	230/400	132SM	MHD03P3Y	$1,300	DS-3HDI	1.0	493	68	85.6	11.3 / 6.5	
4 (5)	3000	230/400	112SM	MHD04P1Y	$887	DS-3HDI	1.0	405	50	88.1	13.4 / 7.7	
4 (5)	1500	230/400	112SM	MHD04P2Y	$813	DS-3HDI	1.0	425	55	88.6	14.4 / 8.3	
4 (5)	1000	230/400	132SM	MHD04P3Y	$1,464	DS-3HDI	1.0	493	82	86.8	15.4 / 8.9	
5.5 (7)	3000	230/400	132SM	MHD055P1Y	$1,153	DS-3HDI	1.0	493	68	89.2	18.2 / 10.5	
5.5 (7)	1500	230/400	132SM	MHD055P2Y	$1,107	DS-3HDI	1.0	493	77	89.6	19.0 / 10.9	
5.5 (7)	1000	230/400	132SM	MHD055P3Y	$1,967	DS-3HDI	1.0	531	86	88	21.0 / 12.1	
7.5 (10)	3000	230/400	132SM	MHD075P1Y	$1,346	DS-3HDI	1.0	493	73	90.1	24.6 / 14.2	
7.5 (10)	1500	230/400	132SM	MHD075P2Y	$1,379	DS-3HDI	1.0	531	86	90.4	25.3 / 14.6	
7.5 (10)	1000	230/400	160ML	MHD075P3Y	$2,337	DS-3HDI	1.0	642	130	89.1	25.5 / 14.7	
11 (15)	3000	230/400	160ML	MHD11P1Y	$1,893	DS-3HDI	1.0	642	120	91.2	36.0 / 20.7	
11 (15)	1500	230/400	160ML	MHD11P2Y	$1,845	DS-3HDI	1.0	642	130	91.4	37.0 / 21.1	
11 (15)	1000	230/400	160ML	MHD11P3Y	$3,089	DS-3HDI	1.0	642	157	90.3	38.0 / 22.2	
15 (20)	3000	230/400	160ML	MHD15P1Y	$2,347	DS-3HDI	1.0	642	134	91.9	46.0 / 26.6	
15 (20)	1500	230/400	160ML	MHD15P2Y	$2,295	DS-3HDI	1.0	642	152	92.1	49.0 / 28.3	
15 (20)	1000	230/400	180ML	MHD15P3Y	$3,796	DS-3HDI	1.0	691	189	91.2	50.0 / 28.5	
18.5 (25)	3000	230/400	160ML	MHD18P1Y	$2,446	DS-3HDI	1.0	642	152	92.4	56/32	
18.5 (25)	1500	230/400	180ML	MHD18P2Y	$2,700	DS-3HDI	1.0	691	170	92.6	60.0 / 35.0	
18.5 (25)	1000	230/400	200ML	MHD18P3Y	$4,850	DS-3HDI	1.0	742	248	91.7	63.0 / 37.0	
22 (30)	3000	230/400	180ML	MHD22P1Y	$3,348	DS-3HDI	1.0	691	170	92.7	67.0 / 39.0	
22 (30)	1500	230/400	180ML	MHD22P2Y	$3,206	DS-3HDI	1.0	691	184	93.3	71.0 / 41.0	
22 (30)	1000	230/400	200ML	MHD22P3Y	$5,517	DS-3HDI	1.0	742	270	92.2	74.0 / 42.0	
30 (40)	3000	230/400	200ML	MHD30P1Y	$3,946	DS-3HDI	1.0	742	243	93.3	92.0 / 53.0	
30 (40)	1500	230/400	200ML	MHD30P2Y	$3,826	DS-3HDI	1.0	742	261	93.6	94.0 / 54.0	
30 (40)	1000	230/400	225SM	MHD30P3Y	$6,112	DS-3HDI	1.0	810	339	92.9	96.0 / 56.0	
37 (50)	3000	230/400	200ML	MHD37P1Y	$5,288	DS-3HDI	1.0	742	252	93.7	114.0 / 66.0	
37 (50)	1500	230/400	225SM	MHD37P2Y	$4,751	DS-3HDI	1.0	810	320	93.9	118.0 / 68.0	
37 (50)	1000	230/400	250SM	MHD37P3Y	$7,602	DS-3HDI	1.0	911	455	93.3	118.0 / 68.0	
45 (60)	3000	230/400	225SM	MHD45P1Y	$6,800	DS-3HDI	1.0	781	325	94	134.0 / 77.0	
45 (60)	1500	230/400	225SM	MHD45P2Y	$6,646	DS-3HDI	1.0	810	330	94.2	141.0 / 81.0	
45 (60)	1000	230/400	280SM	MHD45P3Y	$8,942	DS-3HDI	1.0	1051	827	93.7	152.0 / 88.0	
55 (75)	3000	230/400	250SM	MHD55P1Y	$8,756	DS-3HDI	1.0	911	436	94.3	167.0 / 96.0	
55 (75)	1500	230/400	250SM	MHD55P2Y	$8,114	DS-3HDI	1.0	911	432	94.6	171.0 / 98.0	
55 (75)	1000	230/400	280SM	MHD55P3Y	$10,640	DS-3HDI	1.0	1051	827	94.1	183.0 / 105.0	
75 (100)	3000	400	280SM	MHD75P1T	$11,737	DS-3HDI	1.0	1051	827	94.7	131.0	
75 (100)	1500	400	280SM	MHD75P2T	$10,640	DS-3HDI	1.0	1051	827	95	135.0	
90 (125)	3000	400	280SM	MHD90P1T	$14,058	DS-3HDI	1.0	1051	827	95	153.0	
90 (125)	1500	400	280SM	MHD90P2T	$13,203	DS-3HDI	1.0	1051	827	95.2	158.0	

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) World Motor HOSTILE DUTY® IEC, B5 (footless), IE3 Efficiency

APPLICATIONS:

For pulp & paper plants, saw mills, mines, foundries, chemical plants, waste management facilities, and other process-related industries requiring protection within harsh operating conditions.

FEATURES:

- Class F Insulation, Class B Rise At Full Load On 50 Hertz Sine Wave Power
- Corrosion Resistant Mill & Chemical Duty Paint
- Cast Iron Frame, Cast Iron End Brackets, Cast Iron Conduit Box
- Terminal Block in Conduit Box
- Stainless Steel (with CE Mark) Nameplate & Zinc Plated Hardware
- Shaft Seals For IP55 Protection
- Wye/Delta Dual Voltage 230/400 Volts
- 40°C Ambient
- IEC Design N
- Regreasable Ball Bearings 160 Frame & Up
- Horizontal and Vertical (shaft down) Lifting Provisions
- Self-Certified Zone 2, Groups IIA, IIB, IIC
- Div. 2, Class I Group A, B, C & D, Class II Group F
- T3 T-Code
- Double Shielded Bearings 90-225, Open On 250-280
- 1.0 Service Factor
- Steel Fan Cover
- Footless with B5 Flange
- Condensation Drains With Plastic Plugs
- Conversion Kits: All Cast Iron Upgrade, B14 Flanges, Canopy Kits
- Bearing Caps On 250-280
- Suitable for 20:1 Variable Torque; 2:1 Constant Torque On Inverter Power

KW(HP)	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"L" Dim. (mm)	Ship Wt. (kg)	Full Load Eff.	Full Load Amps	Notes
0.75 (1)	3000	230/400	90	MHD0075P1Y3001L	$669	DS-3HDI	1.00	349	20	83.8	2.7 / 1.6	B5 (Footless Flanged)
0.75 (1)	1500	230/400	90	MHD0075P2Y3001L	$634	DS-3HDI	1.00	349	30	82.5	2.9 / 1.7	B5 (Footless Flanged)
1.1 (1.5)	3000	230/400	90	MHD011P1Y3001L	$689	DS-3HDI	1.00	349	20	83.0	4.0 / 2.3	B5 (Footless Flanged)
1.1 (1.5)	1500	230/400	90	MHD011P2Y3001L	$667	DS-3HDI	1.00	349	30	84.2	4.1 / 2.4	B5 (Footless Flanged)
1.5 (2)	3000	230/400	90	MHD015P1Y3001L	$710	DS-3HDI	1.00	349	30	84.2	5.2 / 3.0	B5 (Footless Flanged)
1.5 (2)	1500	230/400	90	MHD015P2Y3001L	$718	DS-3HDI	1.00	349	30	85.3	5.5 / 3.2	B5 (Footless Flanged)
2.2 (3)	3000	230/400	90	MHD022P1Y3001L	$840	DS-3HDI	1.00	349	30	86.1	7.3 / 4.2	B5 (Footless Flanged)
2.2 (3)	1500	230/400	112	MHD022P2Y3001L	$863	DS-3HDI	1.00	405	40	86.7	8.0 / 4.6	B5 (Footless Flanged)
3 (4)	3000	230/400	112	MHD03P1Y3001L	$1,037	DS-3HDI	1.00	405	40	87.1	10.7 / 6.2	B5 (Footless Flanged)
3 (4)	1500	230/400	112	MHD03P2Y3001L	$963	DS-3HDI	1.00	405	50	87.1	10.7 / 6.2	B5 (Footless Flanged)
4 (5)	3000	230/400	112	MHD04P1Y3001L	$1,303	DS-3HDI	1.00	405	50	88.1	13.4 / 7.7	B5 (Footless Flanged)
4 (5)	1500	230/400	112	MHD04P2Y3001L	$1,257	DS-3HDI	1.00	425	50	88.6	14.4 / 8.3	B5 (Footless Flanged)
5.5 (7)	3000	230/400	132	MHD055P1Y3001L	$1,393	DS-3HDI	1.00	493	60	89.2	18.2 / 10.5	B5 (Footless Flanged)
5.5 (7)	1500	230/400	132	MHD055P2Y3001L	$1,347	DS-3HDI	1.00	493	80	89.6	19.0 / 10.9	B5 (Footless Flanged)
7.5 (10)	3000	230/400	132	MHD075P1Y3001L	$1,586	DS-3HDI	1.00	493	70	90.1	24.6 / 14.2	B5 (Footless Flanged)
7.5 (10)	1500	230/400	132	MHD075P2Y3001L	$1,619	DS-3HDI	1.00	531	90	90.4	25.3 / 14.6	B5 (Footless Flanged)
11 (15)	3000	230/400	160	MHD11P1Y3001L	$2,171	DS-3HDI	1.00	642	110	91.2	36.0 / 20.7	B5 (Footless Flanged)
11 (15)	1500	230/400	160	MHD11P2Y3001L	$2,123	DS-3HDI	1.00	642	120	91.4	37.0 / 21.1	B5 (Footless Flanged)
15 (20)	3000	230/400	160	MHD15P1Y3001L	$2,625	DS-3HDI	1.00	642	130	91.9	46.0 / 26.6	B5 (Footless Flanged)
15 (20)	1500	230/400	160	MHD15P2Y3001L	$2,573	DS-3HDI	1.00	642	150	92.1	49.0 / 28.3	B5 (Footless Flanged)
18.5 (25)	3000	230/400	160	MHD18P1Y3001L	$2,724	DS-3HDI	1.00	642	150	92.4	56.0 / 32.0	B5 (Footless Flanged)
18.5 (25)	1500	230/400	180	MHD18P2Y3001L	$3,053	DS-3HDI	1.00	691	160	92.6	60.0 / 35.0	B5 (Footless Flanged)
22 (30)	3000	230/400	180	MHD22P1Y3001L	$3,626	DS-3HDI	1.00	691	160	92.7	67.0 / 39.0	B5 (Footless Flanged)
22 (30)	1500	230/400	180	MHD22P2Y3001L	$3,559	DS-3HDI	1.00	691	180	93.3	71.0 / 41.0	B5 (Footless Flanged)
30 (40)	3000	230/400	200	MHD30P1Y3001L	$4,344	DS-3HDI	1.00	742	230	93.3	92.0 / 53.0	B5 (Footless Flanged)
30 (40)	1500	230/400	200	MHD30P2Y3001L	$4,224	DS-3HDI	1.00	742	250	93.6	94.0 / 54.0	B5 (Footless Flanged)
37 (50)	3000	230/400	200	MHD37P1Y3001L	$5,686	DS-3HDI	1.00	742	240	93.7	114.0 / 66.0	B5 (Footless Flanged)
37 (50)	1500	230/400	225	MHD37P2Y3001L	$5,224	DS-3HDI	1.00	810	300	93.9	118.0 / 68.0	B5 (Footless Flanged)
45 (60)	3000	230/400	225	MHD45P1Y3001L	$7,183	DS-3HDI	1.00	781	300	94.0	134.0 / 77.0	B5 (Footless Flanged)
45 (60)	1500	230/400	225	MHD45P2Y3001L	$7,119	DS-3HDI	1.00	810	310	94.2	141.0 / 81.0	B5 (Footless Flanged)
55 (75)	3000	230/400	250	MHD55P1Y3001L	$9,349	DS-3HDI	1.00	911	420	94.3	167.0 / 96.0	B5 (Footless Flanged)
55 (75)	1500	230/400	250	MHD55P2Y3001L	$8,707	DS-3HDI	1.00	911	420	94.6	171.0 / 98.0	B5 (Footless Flanged)
75 (100)	3000	400	280	MHD75P1T3001L	$12,330	DS-3HDI	1.00	1051	700	94.8	131.0	B5 (Footless Flanged)
75 (100)	1500	400	280	MHD75P2T3001L	$11,233	DS-3HDI	1.00	1051	700	95.0	135.0	B5 (Footless Flanged)
90 (125)	3000	400	280	MHD90P1T3001L	$15,290	DS-3HDI	1.00	1051	700	95.0	153.0	B5 (Footless Flanged)
90 (125)	1500	400	280	MHD90P2T3001L	$14,396	DS-3HDI	1.00	1051	700	95.2	158.0	B5 (Footless Flanged)

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) World Motor CORRO-DUTY® NEMA®† Premium Efficient

APPLICATIONS:

For pulp & paper, mill & chemical and any other severe duty environments found in the process industries.

FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- All Cast Iron Construction
- Corrosion Resistant Mill & Chemical Duty Paint
- Stainless Steel Nameplate & Zinc Plated Hardware
- Dual Bearing Seals On Pulley End For IP55 Protection
- Dual Voltage 230/460 Volts (1-100 HP)
- Precision Balance (< 0.08 In/Sec Vibration)
- NEMA®† Design B Performance On 60 Hz Sine Wave Power
- 1.15 Service Factor @ 60 Hz
- Self-Certified Class I, Division 2, Groups A, B, C, & D
- Suitable for 20:1 (3-60hz) Variable Torque On Inverter Power
- Regreasable Open Bearings
- Lifting Provisions, Epoxy Coated Rotor
- Field Convertible To F2 Mounting
- Brass Breather Condensation Drains
- Oversized Conduit Box - 1 Size Larger Than NEMA®† Standard
- Cast Iron Inner Bearing Caps
- Conversion Kits: C&D Flanges, Canopy Kits
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1	1800	230/460	143T	CD1P2E	$553	DS-3CEW	1.15	13.7	70	85.5	3/1.5	105,G
	1800	575	143T	CD1P2G	$553	DS-3CEW	1.15	13.7	70	85.5	1.2	
	1200	230/460	145T	CD1P3E	$705	DS-3CEW	1.15	13.7	80	82.5	3.7/1.8	105,G
	1200	575	145T	CD1P3G	$705	DS-3CEW	1.15	13.7	80	82.5	1.4	
1 1/2	3600	230/460	143T	CD32P1E	$616	DS-3CEW	1.15	13.7	60	84.0	3.9/1.9	105,G
	3600	575	143T	CD32P1G	$616	DS-3CEW	1.15	13.7	60	84.0	1.6	
	1800	230/460	145T	CD32P2E	$591	DS-3CEW	1.15	13.7	80	86.5	4.1/2.1	105,G
	1800	575	145T	CD32P2G	$591	DS-3CEW	1.15	13.7	80	86.5	1.6	
	1200	230/460	182T	CD32P3E	$813	DS-3CEW	1.15	16.4	100	87.5	4.5/2.2	105,G
	1200	575	182T	CD32P3G	$813	DS-3CEW	1.15	16.4	100	87.5	1.8	
2	3600	230/460	145T	CD2P1E	$640	DS-3CEW	1.15	13.7	60	85.5	5/2.5	105,G
	3600	575	145T	CD2P1G	$640	DS-3CEW	1.15	13.7	60	86.5	2	
	1800	230/460	145T	CD2P2E	$649	DS-3CEW	1.15	13.7	80	86.5	5.3/2.7	105,G
	1200	230/460	184T	CD2P3E	$955	DS-3CEW	1.15	16.4	110	88.5	6.2/3.1	105,G
	1200	575	184T	CD2P3G	$955	DS-3CEW	1.15	16.4	110	88.5	2.5	
3	3600	230/460	182T	CD3P1E	$742	DS-3CEW	1.15	16.4	80	86.5	8.2/4.1	105,G
	3600	575	182T	CD3P1G	$742	DS-3CEW	1.15	16.4	80	86.5	3.3	
	1800	230/460	182T	CD3P2E	$709	DS-3CEW	1.15	16.4	100	89.5	7.8/3.9	105,G
	1800	575	182T	CD3P2G	$709	DS-3CEW	1.15	16.4	100	89.5	3.1	
	1200	230/460	213T	CD3P3E	$1,264	DS-3CEW	1.15	19.7	170	89.5	8.6/4.3	105,G
	1200	575	213T	CD3P3G	$1,264	DS-3CEW	1.15	19.7	170	90.2	3.5	
5	3600	230/460	184T	CD5P1E	$881	DS-3CEW	1.15	16.4	100	88.5	12.3/6.1	105,G
	3600	575	184T	CD5P1G	$881	DS-3CEW	1.15	16.4	100	88.5	4.9	
	1800	230/460	184T	CD5P2E	$808	DS-3CEW	1.15	16.4	110	89.5	12.7/6.3	105,G
	1800	575	184T	CD5P2G	$808	DS-3CEW	1.15	16.4	110	89.5	5.1	
	1200	230/460	215T	CD5P3E	$1,629	DS-3CEW	1.15	19.7	180	89.5	14.2/7.1	105,G
	1200	575	215T	CD5P3G	$1,629	DS-3CEW	1.15	19.7	180	89.5	5.7	
7 1/2	3600	230/460	213T	CD7P1E	$1,098	DS-3CEW	1.15	19.7	140	89.5	18.1/9	105,G
	3600	575	213T	CD7P1G	$1,098	DS-3CEW	1.15	19.7	140	89.5	7.2	
	1800	230/460	213T	CD7P2E	$1,055	DS-3CEW	1.15	19.7	170	91.7	19.1/9.6	105,G
	1800	575	213T	CD7P2G	$1,055	DS-3CEW	1.15	19.7	170	91.7	7.8	
	1200	230/460	254T	CD7P3E	$1,854	DS-3CEW	1.15	25.1	250	91.0	18.8/9.4	105,G
	1200	575	254T	CD7P3G	$1,854	DS-3CEW	1.15	25.1	250	91.0	7.6	
10	3600	230/460	215T	CD10P1E	$1,444	DS-3CEW	1.15	19.7	160	90.2	23.5/11.8	105,G
	3600	575	215T	CD10P1G	$1,444	DS-3CEW	1.15	19.7	160	90.2	9.3	
	1800	230/460	215T	CD10P2E	$1,314	DS-3CEW	1.15	19.7	180	91.7	25.7/12.8	105,G
	1800	575	215T	CD10P2G	$1,314	DS-3CEW	1.15	19.7	180	91.7	10.3	
	1200	230/460	256T	CD10P3E	$2,246	DS-3CEW	1.15	25.1	280	91.0	24.9/12.4	105,G
	1200	575	256T	CD10P3G	$2,246	DS-3CEW	1.15	25.1	280	91.0	10	
15	3600	230/460	254T	CD15P1E	$1,804	DS-3CEW	1.15	25.1	270	91.0	35/17.4	105,G
	3600	575	254T	CD15P1G	$1,804	DS-3CEW	1.15	25.1	270	91.0	13.9	
	1800	230/460	254T	CD15P2E	$1,757	DS-3CEW	1.15	25.1	270	92.4	40-36/18	105,G
	1800	575	254T	CD15P2G	$1,757	DS-3CEW	1.15	25.1	270	92.4	14.5	02
	1200	230/460	284T	CD15P3E	$2,984	DS-3CEW	1.15	27.7	340	91.7	37/18.5	105,G
	1200	575	284T	CD15P3G	$2,984	DS-3CEW	1.15	27.7	340	91.7	14.7	

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC)
World Motor CORRO-DUTY® NEMA®† Premium Efficient

(continued)

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
20	3600	230/460	256T	CD20P1E	$2,236	DS-3CEW	1.15	25.1	270	91.0	46/23	105,G
	3600	575	256T	CD20P1G	$2,236	DS-3CEW	1.15	25.1	280	91.0	18.4	
	1800	230/460	256T	CD20P2E	$2,186	DS-3CEW	1.15	25.1	300	93.0	47/23.7	105,G
	1800	575	256T	CD20P2G	$2,186	DS-3CEW	1.15	25.1	300	93.0	18.9	02
	1200	230/460	286T	CD20P3E	$3,537	DS-3CEW	1.15	27.7	370	91.7	49/24.4	105,G
	1200	575	286T	CD20P3G	$3,537	DS-3CEW	1.15	27.7	370	91.7	19.6	
25	3600	230/460	284TS	CD25P1ES	$2,542	DS-3CEW	1.15	26.3	350	91.7	58/28.8	105,G
	3600	460	284TS	CD25P1FS	$2,542	DS-3CEW	1.15	26.3	330	91.7	28.8	G
	3600	575	284TS	CD25P1GS	$2,542	DS-3CEW	1.15	26.3	330	91.7	23	
	1800	230/460	284T	CD25P2E	$2,459	DS-3CEW	1.15	27.7	360	93.6	58/29.2	105,G
	1800	460	284T	CD25P2F	$2,459	DS-3CEW	1.15	27.7	360	93.6	29.2	G
	1800	575	284T	CD25P2G	$2,459	DS-3CEW	1.15	27.7	360	93.6	23.3	02
	1200	230/460	324T	CD25P3E	$4,418	DS-3CEW	1.15	30.1	540	93.0	59/29.3	105,G
	1200	460	324T	CD25P3F	$4,418	DS-3CEW	1.15	30.3	540	93.0	29.3	G
	1200	575	324T	CD25P3G	$4,418	DS-3CEW	1.15	30.3	540	93.0	23.4	
30	3600	230/460	286TS	CD30P1ES	$3,050	DS-3CEW	1.15	26.3	325	91.7	69/35	105,G
	3600	460	286TS	CD30P1FS	$3,050	DS-3CEW	1.15	26.3	330	91.7	35	G
	3600	575	286TS	CD30P1GS	$3,050	DS-3CEW	1.15	26.3	330	91.7	27.7	
	1800	230/460	286T	CD30P2E	$2,920	DS-3CEW	1.15	27.7	370	93.6	70/35	105,G
	1800	460	286T	CD30P2F	$2,920	DS-3CEW	1.15	27.7	370	93.6	35	G
	1800	575	286T	CD30P2G	$2,920	DS-3CEW	1.15	27.7	370	93.6	28.1	02
	1200	230/460	326T	CD30P3E	$5,025	DS-3CEW	1.15	30.1	565	93.0	70/35	105,G
	1200	460	326T	CD30P3F	$5,025	DS-3CEW	1.15	30.3	560	92.4	35	G
	1200	575	326T	CD30P3G	$5,025	DS-3CEW	1.15	30.3	560	93.0	28	
40	3600	230/460	324TS	CD40P1ES	$3,595	DS-3CEW	1.15	28.8	485	92.4	92/46	105,G
	3600	460	324TS	CD40P1FS	$3,595	DS-3CEW	1.15	28.8	460	92.4	46	G
	3600	575	324TS	CD40P1GS	$3,595	DS-3CEW	1.15	28.8	460	92.4	37	
	1800	230/460	324T	CD40P2E	$3,486	DS-3CEW	1.15	30.3	505	94.1	92/46	105,G
	1800	460	324T	CD40P2F	$3,486	DS-3CEW	1.15	30.3	490	94.1	46	G
	1800	575	324T	CD40P2G	$3,486	DS-3CEW	1.15	30.3	490	94.1	37	02
	1200	230/460	364T	CD40P3E	$5,568	DS-3CEW	1.15	32.4	690	94.1	94/47	105,G
	1200	460	364T	CD40P3F	$5,568	DS-3CEW	1.15	32.4	690	94.1	47	G
	1200	575	364T	CD40P3G	$5,568	DS-3CEW	1.15	32.4	690	94.1	37	02
50	3600	230/460	326TS	CD50P1ES	$4,817	DS-3CEW	1.15	28.8	545	93.0	112/56	105,G
	3600	460	326TS	CD50P1FS	$4,817	DS-3CEW	1.15	28.8	520	93.0	56	G
	3600	575	326TS	CD50P1GS	$4,817	DS-3CEW	1.15	28.8	520	93.0	45	
	1800	230/460	326T	CD50P2E	$4,327	DS-3CEW	1.15	30.3	590	94.5	112/56	105,G
	1800	460	326T	CD50P2F	$4,327	DS-3CEW	1.15	30.3	600	94.5	56	G
	1800	575	326T	CD50P2G	$4,327	DS-3CEW	1.15	30.3	600	94.5	45	02
	1200	230/460	365T	CD50P3E	$6,925	DS-3CEW	1.15	32.4	730	94.1	117/59	105,G
	1200	460	365T	CD50P3F	$6,925	DS-3CEW	1.15	32.4	730	94.1	59	G
	1200	575	365T	CD50P3G	$6,925	DS-3CEW	1.15	32.4	730	94.1	47	02
60	3600	460	364TS	CD60P1FS	$6,194	DS-3CEW	1.15	30.3	620	93.6	69	G
	3600	575	364TS	CD60P1GS	$6,194	DS-3CEW	1.15	30.3	620	93.6	55	02
	1800	230/460	364T	CD60P2E	$6,044	DS-3CEW	1.15	32.4	700	95.0	137/68	105,G
	1800	460	364T	CD60P2F	$6,044	DS-3CEW	1.15	32.4	700	95.0	68	G
	1800	575	364T	CD60P2G	$6,044	DS-3CEW	1.15	32.4	700	95.0	55	02
	1200	460	404T	CD60P3F	$8,147	DS-3CEW	1.15	37.8	1020	94.5	71	G
	1200	575	404T	CD60P3G	$8,147	DS-3CEW	1.15	37.8	1020	94.5	57	02
75	3600	460	365TS	CD75P1FS	$7,976	DS-3CEW	1.00	30.3	710	94.1	83	G
	3600	575	365TS	CD75P1GS	$7,976	DS-3CEW	1.15	30.3	710	94.1	66	02
	1800	230/460	365T	CD75P2E	$7,392	DS-3CEW	1.15	32.4	750	95.4	170/85	105,G
	1800	460	365T	CD75P2F	$7,392	DS-3CEW	1.15	32.4	750	95.4	85	G
	1800	575	365T	CD75P2G	$7,392	DS-3CEW	1.15	32.4	750	95.4	68	02
	1200	460	405T	CD75P3F	$9,692	DS-3CEW	1.15	37.8	1040	94.5	89	G
	1200	460	405T	CD75P3FB	$9,692	DS-3CEW	1.15	37.8	1040	94.5	89	09,G
	1200	575	405T	CD75P3G	$9,692	DS-3CEW	1.15	37.8	1040	94.5	71	02

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC)
World Motor CORRO-DUTY® NEMA®† Premium Efficient

(continued)

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
100	3600	460	405TS	CD100P1FS	$10,692	DS-3CEW	1.15	34.8	970	94.1	114	G
	3600	575	405TS	CD100P1GS	$10,692	DS-3CEW	1.15	34.8	970	94.1	91	02
	1800	460	405T	CD100P2F	$9,692	DS-3CEW	1.15	37.8	1060	95.4	115	G
	1800	460	405T	CD100P2FB	$9,692	DS-3CEW	1.15	37.8	1060	95.4	115	09,G
	1800	460	405TS	CD100P2FS	$9,692	DS-3CEW	1.15	34.8	1060	95.4	115	G
	1800	575	405T	CD100P2G	$9,692	DS-3CEW	1.15	37.8	1060	95.4	91	02
	1200	460	444T	CD100P3F	$12,657	DS-3CEW	1.15	44.5	1570	95.0	120	G
	1200	575	444T	CD100P3G	$12,657	DS-3CEW	1.15	44.5	1570	95.0	95	02
125	3600	460	444TS	CD125P1FS	$13,023	DS-3CEW	1.15	40.8	1430	95.0	142	G
	3600	575	444TS	CD125P1GS	$13,023	DS-3CEW	1.15	40.8	1430	95.0	113	02
	1800	460	444T	CD125P2F	$12,231	DS-3CEW	1.15	44.5	1390	95.8	141	G
	1800	460	444TS	CD125P2FS	$12,231	DS-3CEW	1.15	40.8	1390	95.8	141	G
	1800	575	444T	CD125P2G	$12,231	DS-3CEW	1.15	44.5	1390	95.4	114	02
	1200	460	445T	CD125P3F	$15,719	DS-3CEW	1.15	44.5	1620	95.0	153	G
	1200	575	445T	CD125P3G	$15,719	DS-3CEW	1.15	44.5	1620	95.0	125	02
150	3600	460	445TS	CD150P1FS	$16,509	DS-3CEW	1.15	40.8	1530	95.0	167	G
	3600	575	445TS	CD150P1GS	$16,509	DS-3CEW	1.15	40.8	1530	95.0	133	02
	1800	460	445T	CD150P2F	$14,730	DS-3CEW	1.15	44.5	1610	95.8	171	G
	1800	460	445T	CD150P2FB	$14,730	DS-3CEW	1.15	44.5	1610	95.8	171	09,G
	1800	460	445TS	CD150P2FS	$14,730	DS-3CEW	1.15	40.8	1610	95.8	171	G
	1800	575	445T	CD150P2G	$14,730	DS-3CEW	1.15	44.5	1610	95.8	136	02
	1200	460	447T	CD150P3F	$17,976	DS-3CEW	1.15	48.0	1890	95.8	179	G
	1200	575	447T	CD150P3G	$17,976	DS-3CEW	1.15	48.0	1890	95.8	143	02
200	3600	460	447TS	CD200P1FS	$22,562	DS-3CEW	1.15	44.3	1750	95.4	221	G
	3600	575	447TS	CD200P1GS	$22,562	DS-3CEW	1.15	44.3	1790	95.4	177	02
	1800	460	447T	CD200P2F	$19,077	DS-3CEW	1.15	48.0	1860	96.2	225	G
	1800	460	447T	CD200P2FB	$19,077	DS-3CEW	1.15	48.0	1860	96.2	225	09,G
	1800	460	447TS	CD200P2FS	$19,077	DS-3CEW	1.15	44.3	1860	96.2	225	G
	1800	575	447T	CD200P2G	$19,077	DS-3CEW	1.15	48.0	1860	96.2	180	02
	1200	460	449T	CD200P3F	$23,753	DS-3CEW	1.15	53.0	2500	95.8	224	G
	1200	575	449T	CD200P3G	$23,753	DS-3CEW	1.15	53.0	2500	95.8	192	02
250	3600	460	449TS	CD250P1FS	$27,617	DS-3CEW	1.15	49.3	2500	95.8	273	G
	1800	460	449T	CD250P2F	$24,532	DS-3CEW	1.15	53.0	2500	96.2	273	G
	1800	460	449T	CD250P2FB	$24,532	DS-3CEW	1.15	53.0	2500	96.2	273	09,G
	1800	575	449T	CD250P2G	$24,532	DS-3CEW	1.15	53.0	2500	96.2	224	02
	1200	460	449T	C250P3C	$36,281	DS-3CE	1.15	55.1	2800	95.8	280	AP,NWM
	1200	575	449T	C250P3G	$36,281	DS-3CE	1.15	55.1	2400	95.8	225	AP,NWM
300	3600	460	449TS	CD300P1FS	$33,017	DS-3CEW	1.15	49.3	2500	95.8	327	G
	3600	460	449TS	C300P1CS	$33,822	DS-3CE	1.15	51.4	2750	95.8	327	12,AP,NWM
	3600	575	449TS	CD300P1GS	$33,017	DS-3CEW	1.15	49.3	2500	95.8	266	02
	1800	460	449T	CD300P2F	$28,342	DS-3CEW	1.15	53.0	2500	96.2	326	G
	1800	460	449T	CD300P2FB	$28,342	DS-3CEW	1.15	53.0	2500	96.2	326	09,G
	1800	575	449T	CD300P2G	$28,342	DS-3CEW	1.15	53.0	2500	96.2	268	02
	1200	460	449T	C300P3C	$39,704	DS-3CE	1.15	55.1	2800	95.8	334	AP,NWM
	1200	575	449T	C300P3G	$39,704	DS-3CE	1.15	55.1	2400	95.8	269	AP,NWM
350	3600	460	449TS	C350P1CS	$40,405	DS-3CE	1.15	51.4	2800	95.8	374	AP,NWM
	3600	575	449TS	C350P1GS	$40,405	DS-3CE	1.15	51.4	2800	95.8	299	12,AP,NWM
	1800	460	449T	CD350P2F	$30,899	DS-3CEW	1.15	53.0	2400	96.2	400	02
	1800	460	449T	CD350P2FB	$30,899	DS-3CEW	1.15	53.0	2400	96.2	400	09,G
	1800	575	449T	CD350P2G	$30,899	DS-3CEW	1.15	53.0	2400	96.2	318	02
400	3600	460	449TS	C400P1CS	$50,419	DS-3CE	1.15	51.4	2900	95.8	426	AP,NWM
	1800	460	449T	C400P2C	$43,843	DS-3CE	1.15	55.1	2400	96.2	434	AP,NWM

Note 02 Suitable for Wye-Delta start on voltages shown
Note 09 Cylindrical Roller Bearing
Note 12 Unidirectional Fan - CCW direction facing opposite drive end (FODE)
Note 105 208 Volt Suitable
Note AP No F2 convertibility
Note G 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 200/400 volt 50 Hz, 460V 60 Hz ratings operate on 400V 50 Hz; Full 60 & 50 Hz data on Nameplate
Note NWM Non-World Motor Construction

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) World Motor CORRO-DUTY® NEMA®† Premium Efficient C-Face

APPLICATIONS:

For pulp & paper, mill & chemical and any other severe duty environments found in the process industries.

FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- All Cast Iron Construction
- Corrosion Resistant Mill & Chemical Duty Paint
- Stainless Steel Nameplate & Zinc Plated Hardware
- IP55 Protection
- Precision Balance (< 0.08 In/Sec Vibration)
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Regreasable Bearings, Lifting Provisions
- Double Shielded Bearings 140-210
- Oversized Conduit Box - 1 Size Larger Than NEMA®† Standard
- Cast Iron Inner Bearing Caps
- Field Convertible To F2 Mounting
- Condensation Drains With Threaded Brass Breather Plugs
- Self-Certified Class I, Division 2, Groups A, B, C, & D
- Suitable for 20:1 (3-60hz) Variable Torque; 4:1 (15-60hz) Constant Torque On Inverter Power
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1 1/2	3600	230/460	143TC	CD32P1EC	$711	DS-3CEW	1.15	14.2	60	84.0	3.9/1.9	105,G
	1800	230/460	145TC	CD32P2EC	$686	DS-3CEW	1.15	14.2	80	86.5	4.1/2.1	105,G
2	3600	230/460	145TC	CD2P1EC	$735	DS-3CEW	1.15	14.2	60	85.5	5/2.5	105,G
	1800	230/460	145TC	CD2P2EC	$744	DS-3CEW	1.15	14.2	80	86.5	5.3/2.7	105,G
3	3600	230/460	182TC	CD3P1EC	$872	DS-3CEW	1.15	17.2	90	86.5	8.2/4.1	105,G
	1800	230/460	182TC	CD3P2EC	$839	DS-3CEW	1.15	17.2	110	89.5	7.8/3.9	105,G
5	3600	230/460	184TC	CD5P1EC	$1,011	DS-3CEW	1.15	17.2	110	88.5	12.3/6.1	105,G
	1800	230/460	184TC	CD5P2EC	$938	DS-3CEW	1.15	17.2	120	89.5	12.7/6.3	105,G
7 1/2	3600	230/460	213TC	CD7P1EC	$1,228	DS-3CEW	1.15	20.4	160	89.5	18.1/9	105,G
	1800	230/460	213TC	CD7P2EC	$1,185	DS-3CEW	1.15	20.4	180	91.7	19.1/9.6	105,G
10	3600	230/460	215TC	CD10P1EC	$1,411	DS-3CEW	1.15	20.4	170	90.2	23.5/11.8	105,G
	1800	230/460	215TC	CD10P2EC	$1,444	DS-3CEW	1.15	20.4	200	91.7	25.7/12.8	105,G

Note 105 208 Volt Suitable
Note G 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 200/400 volt 50 Hz, 460V 60 Hz ratings operate on 400V 50 Hz; Full 60 & 50 Hz data on Nameplate

TITAN® General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) CORRO-DUTY® High Efficient



JCE

APPLICATIONS:

For pulp & paper, mill & chemical and any other severe duty environments found in the process industries

FEATURES:

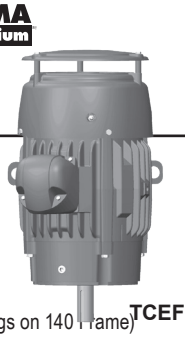
- 1.15 Service Factor
- Class B Temperature Rise At Full Load (1.0 S.F.)
- NEMA®† Design B (Where Applicable)
- CORRO-DUTY® (Includes All Cast Iron Construction)
- Shaft Slinger/Umbrella Seal On Both Ends (IP54)
- Stainless Steel Drains – Both Ends
- Oversized Main Conduit Box
- Ground Lug In Conduit Box
- Grounding Pad On Frame
- Special Balance
- Two Hole Lead Lugs
- 115V Space Heaters
- 100 Ohm Winding RTDs (2/ph.) Terminated In Auxiliary Box
- Vertical Jacking Provisions
- Provisions For Bearing RTDs (1/bearing)
- Insulated Bearing On Opposite Drive End
- Short Commercial Test Report

* Division 2 Labeled

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
150	3600	2300/4000	449TS	C150S1WS	$32,804	DS-6S	1.15	51.4	2500	92.4	34/19.4	50
	1800	2300/4000	449T	C150S2W	$31,538	DS-6S	1.15	55.1	2550	93.6	34/19.7	
	1200	2300/4000	449TL	C150S3WB	$32,957	DS-6S	1.15	57.1	2650	93.0	38/22	09
200	3600	2300/4000	449TS	C200S1WS	$34,531	DS-6S	1.15	51.4	2650	93.0	45/25.7	50
	1800	2300/4000	449T	C200S2W	$33,198	DS-6S	1.15	55.1	2750	94.1	45/25.9	
	1200	2300/4000	449TL	C200S3WB	$40,100	DS-6S	1.15	57.1	2650	93.0	48/27.4	09
250	3600	2300/4000	449TS	C250S1WS	$39,417	DS-6S	1.15	51.4	2750	93.6	55/32	50
	1800	2300/4000	449T	C250S2W	$38,271	DS-6S	1.15	55.1	2850	94.5	58/33	
	1200	2300/4000	5008ML	C250P3WB	$48,781	DS-6S	1.15	66.5	4000	95.0	60/34	09
	1200	2300/4000	5008S	C250P3WS	$48,781	DS-6S	1.15	60.6	4000	95.0	35/35	
300	3600	2300	449TS	C300S12S	$42,114	DS-6S	1.15	51.4	2750	93.0	67	
	3600	2300/4000	5010S	C300P1WS	$46,793	DS-6S	1.15	67.6	4800	95.0	66/38	50
	1800	2300	449T	C300S22	$38,619	DS-6S	1.15	55.1	2750	94.5	68	
	1800	2300/4000	5008S	C300P2W	$42,910	DS-6S	1.15	60.6	4000	95.0	70/40	
	1200	2300/4000	5010S	C300P3WS	$50,195	DS-6S	1.15	67.6	4800	95.0	73/42	
	1200	2300/4000	5010ML	C300P3WB	$50,195	DS-6S	1.15	73.5	4800	95.0	71/41	09
350	3600	2300/4000	5010S	C350P1WS	$52,834	DS-6S	1.15	67.6	4800	95.0	77/44	50
	1800	2300/4000	5010S	C350P2W	$51,798	DS-6S	1.15	67.6	4800	95.0	81/46	
	1200	2300/4000	5010ML	C350P3WB	$57,695	DS-6S	1.15	73.5	4800	95.0	83/48	09
	1200	2300/4000	5010S	C350P3WS	$57,695	DS-6S	1.15	67.6	4800	95.0	84/49	
400	3600	2300/4000	5010S	C400P1WS	$56,819	DS-6S	1.15	67.6	4800	95.0	88/51	50
	1800	2300/4000	5010S	C400P2W	$54,576	DS-6S	1.15	67.6	4800	95.4	92/53	
	1200	2300/4000	5010ML	C400P3WB	$61,660	DS-6S	1.15	73.5	4800	95.0	95/54	09
	1200	2300/4000	5010S	C400P3WS	$61,660	DS-6S	1.15	67.6	4800	95.4	96/55	
450	3600	2300/4000	5012S	C450P1WS	$65,481	DS-6S	1.15	75.6	6000	95.0	98/57	50
	1800	2300/4000	5010S	C450P2W	$61,029	DS-6S	1.15	67.6	4800	95.4	103/59	09
	1200	2300/4000	5012ML	C450P3WB	$71,310	DS-6S	1.15	81.5	6000	95.4	105/60	09
	1200	2300/4000	5012S	C450P3WS	$71,310	DS-6S	1.15	75.6	6000	95.4	107/62	
500	3600	2300/4000	5012S	C500P1WS	$70,131	DS-6S	1.15	75.6	6000	95.0	109/63	50
	1800	2300/4000	5012S	C500P2W	$68,464	DS-6S	1.15	75.6	6000	95.8	113/65	
	1200	2300/4000	5012ML	C500P3WB	$76,529	DS-6S	1.15	81.5	6000	95.8	116/67	09
	1200	2300/4000	5012S	C500P3WS	$76,529	DS-6S	1.15	75.6	6000	95.4	120/69	
600	3600	2300/4000	5012S	C600P1WS	$74,190	DS-6S	1.15	75.6	6000	95.4	130/75	50
	1800	2300/4000	5012S	C600P2W	$76,750	DS-6S	1.15	75.6	6000	96.2	134/77	

Note 09 Cylindrical Roller Bearing
Note 50 Counterclockwise (CCW) rotation; Refer to "Kits" Section for Clockwise (CW) Fan Kits

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) CORRO-DUTY® NEMA®† Premium Efficient, Vertical C-Face



TCEF

APPLICATIONS:

For pulp & paper, mill & chemical and any other severe duty environments found in the process industries.

FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- All Cast Iron Construction (Steel Frame On 140 Frame)
- Corrosion Resistant Mill & Chemical Duty Paint
- Stainless Steel Nameplate
- Shaft Slinger On Both Ends For IP54 Protection
- Regreasable Bearings 140 Frame & Up, Lifting Provisions 180 Frame & Up
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- 50 Hz. rated at 190/380V (140-250 Frame) or 380V (280 Frame & Larger)
- 1.15 Service Factor @ 60 Hz.
- Special Balance (< 0.08 In/Sec Vibration)
- Open Bearings 180-447 (Double Shielded Bearings on 140 Frame)
- Steel Canopy Cap/Drip Cover (Cast Iron on 140 Frame)
- Cast Iron Inner Bearing Caps (180 Frame & Larger)
- Condensation Drain With Threaded Brass Breather Plug
- Oversized Cast Iron Conduit Box - 1 Size Larger Than NEMA®† Standard
- Zinc Plated Hardware
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- **Discount Symbol: Catalog #s beginning with C is DS-3CE**
  Catalog #s beginning with CD are DS-3CEW

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	NEMA Nom. Eff.	Full Load Amps	Ship Wt. (lbs.)	Notes
1	3600	230/460	143TC	C1P1DCR	$818	DS-3CE	80.0	2.9-2.7/1.4	65	03,105
	1800	230/460	145TC	C1P2DCR	$796	DS-3CE	85.5	3.1-3/1.5	65	03,105
1 1/2	3600	230/460	143TC	C32P1DCR	$891	DS-3CE	84.0	4.2-3.9/2	65	03,105
	1800	230/460	145TC	C32P2DCR	$866	DS-3CE	86.5	4.5-4.3/2.1	65	03,105
2	3600	230/460	145TC	C2P1DCR	$1,013	DS-3CE	86.5	5.5-4.9/2.4	70	03,105
	1800	230/460	145TC	C2P2DCR	$926	DS-3CE	86.5	4-3.8/2	70	03,105
3	3600	230/460	182TC	C3P1DCR	$1,122	DS-3CE	87.5	8.4-7.8/3.9	100	03,105
	1800	230/460	182TC	C3P2DCR	$1,021	DS-3CE	89.5	8.4-7.8/3.9	100	03,105
5	3600	230/460	184TC	C5P1DCR	$1,342	DS-3CE	88.5	13.4-12.2/6.1	110	03,105
	1800	230/460	184TC	C5P2DCR	$1,145	DS-3CE	89.5	13.7-12.5/6.3	110	03,105
7 1/2	3600	230/460	213TC	C7P1DCR	$1,665	DS-3CE	91.0	19.9-17.8/8.9	160	03,105
	1800	230/460	213TC	C7P2DCR	$1,536	DS-3CE	91.7	20.1-18.6/9.3	160	03,105
10	3600	230/460	215TC	C10P1DCR	$1,896	DS-3CE	91.0	26.4-23.5/11.8	175	03,105
	1800	230/460	215TC	C10P2DCR	$1,789	DS-3CE	91.7	26.5-23.9/12	175	03,105
15	3600	230/460	254TC	C15P1DCR	$2,617	DS-3CE	91.0	40-35/17.5	300	03,105
	1800	230/460	254TC	C15P2DCR	$2,396	DS-3CE	92.4	40-37/18.4	300	03,105
20	3600	230/460	256TC	C20P1DCR	$3,141	DS-3CE	91.0	53-46/23.1	340	03,105
	1800	230/460	256TC	C20P2DCR	$2,856	DS-3CE	93.0	52-47-23.5	340	03,105
25	3600	230/460	284TSC	CD25P1ESCR	$3,207	DS-3CEW	91.7	58.0/28.8	320	105,G
	1800	230/460	284TC	CD25P2ECR	$3,124	DS-3CEW	93.6	58.0/29.1	350	105,G
	1800	230/460	284TSC	CD25P2ESCR	$3,124	DS-3CEW	93.6	58.0/29.1	350	105,G
30	3600	230/460	286TSC	CD30P1ESCR	$3,715	DS-3CEW	91.7	69.0/35.0	320	105,G
	1800	230/460	286TC	CD30P2ECR	$3,585	DS-3CEW	93.6	70.0/35.0	360	105,G
	1800	230/460	286TSC	CD30P2ESCR	$3,585	DS-3CEW	93.6	70.0/35.0	360	105,G
40	3600	460	324TSC	C40P1FSCR	$5,824	DS-3CE	92.4	46	600	03
	1800	460	324TC	C40P2FCR	$5,234	DS-3CE	94.1	46	600	03
	1800	460	324TSC	C40P2FSCR	$5,234	DS-3CE	94.1	46	600	03
50	3600	460	326TSC	C50P1FSCR	$7,235	DS-3CE	93.0	56	625	03
	1800	460	326TC	C50P2FCR	$6,221	DS-3CE	94.5	56	625	03
	1800	460	326TSC	C50P2FSCR	$6,221	DS-3CE	94.5	56	625	03
60	3600	460	364TSC	C60P1FSCR	$9,632	DS-3CE	93.6	68	750	03
	1800	460	364TC	C60P2FCR	$8,912	DS-3CE	95.0	69	750	03
	1800	460	364TSC	C60P2FSCR	$8,912	DS-3CE	95.0	69	750	03

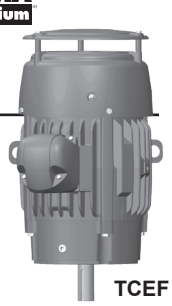
Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 105 208 Volt Suitable

Note G 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 200/400 volt 50 Hz, 460V 60 Hz ratings operate on 400V 50 Hz; Full 60 & 50 Hz data on Nameplate

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) CORRO-DUTY® NEMA®† Premium Efficient, Vertical C-Face

(continued)



TCEF

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	NEMA Nom. Eff.	Full Load Amps	Ship Wt. (lbs.)	Notes
75	3600	460	365TSC	C75P1FSCR	$11,801	DS-3CE	93.6	83	910	03
	1800	460	365TC	C75P2FCR	$11,015	DS-3CE	95.4	84	910	03
	1800	460	365TSC	C75P2FSCR	$11,015	DS-3CE	95.4	84	910	03
100	3600	460	405TSC	C100P1FSCR	$16,042	DS-3CE	94.1	112	1300	03
	1800	460	405TC	C100P2FCR	$14,022	DS-3CE	95.4	113	1300	03
	1800	460	405TSC	C100P2FSCR	$14,022	DS-3CE	95.4	113	1300	03
125	3600	460	444TSC	C125P1FSCR	$19,461	DS-3CE	95.0	144	1660	03,12
	1800	460	444TC	C125P2FCR	$16,896	DS-3CE	95.4	147	1660	03
	1800	460	444TSC	C125P2FSCR	$16,896	DS-3CE	95.4	147	1660	03
150	3600	460	445TSC	C150P1FSCR	$23,468	DS-3CE	95.0	176	1750	03,12
	1800	460	445TC	C150P2FCR	$19,664	DS-3CE	95.8	171	1750	03
	1800	460	445TSC	C150P2FSCR	$19,664	DS-3CE	95.8	171	1750	03
200	3600	460	447TSC	C200P1FSCR	$29,321	DS-3CE	95.4	220	2100	03,12
	1800	460	447TC	C200P2FCR	$23,716	DS-3CE	96.2	224	2100	03
	1800	460	447TSC	C200P2FSCR	$23,716	DS-3CE	96.2	224	2100	03

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 12 Unidirectional Fan – CCW direction facing opposite drive end (FODE)

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) World Motor 841 Plus® NEMA®† Premium Efficient

APPLICATIONS:

For constant speed and inverter duty applications in petro-chemical, pulp & paper, automotive, mining and waste treatment industries.

FEATURES:

- Inverter Grade® Insulation System (Meets NEMA®† MG-1 Part 31)
- Class F Insulation, Class B Rise At Full Load (Sine Wave Power)
- All Cast Iron Construction
- Corrosion Resistant Mill & Chem Duty Paint (500 Hour Salt Spray Test)
- Stainless Steel Nameplate & Zinc Plated Hardware
- 40°C Ambient, NEMA®† Design B Performance (Sine Wave Power)
- VBXX®† Bearing Isolators By Inpro/Seal®† On Both Ends For IP56 Bearing Protection
- Same Size Regreasable Open Bearings, Stainless Steel Breathers/Drains
- 5 Year Warranty (3 Years on Inverter Power)
- External Grounding Provision, Epoxy Coated Rotor
- 20:1 (3-60hz) Variable Torque; 5:1 (12-60hz) Constant Torque On Inverter Power
- Precision Balance (< 0.05 In/Sec Vibration)
- 1.15 SF On Sine Wave / 1.0 SF On Inverter Power
- Meets or Exceeds IEEE Std 841™-2021
- Conversion Kits: C&D Flange, Drip Cover Kit, Shaft Grounding Ring (Non-hazardous Locations only)
- Self-Certified Class I, Division 2, Groups A, B, C, & D

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1	1800	460	143T	8D1P2C	$663	DS-841W	1.15	13.7	70	85.5	1.5	
	1800	575	143T	8D1P2G	$663	DS-841W	1.15	13.7	70	86.5	1.2	
	1200	460	145T	8D1P3C	$846	DS-841W	1.15	13.7	80	82.5	1.8	
	1200	575	145T	8D1P3G	$846	DS-841W	1.15	13.7	80	82.5	1.4	
1 1/2	3600	460	143T	8D32P1C	$739	DS-841W	1.15	13.7	65	84.0	1.9	
	3600	575	143T	8D32P1G	$739	DS-841W	1.15	13.7	65	84.0	1.6	
	1800	460	145T	8D32P2C	$709	DS-841W	1.15	13.7	80	86.5	2.1	
	1800	575	145T	8D32P2G	$709	DS-841W	1.15	13.7	80	87.5	1.6	
	1200	460	182T	8D32P3C	$935	DS-841W	1.15	16.4	100	87.5	2.2	
	1200	575	182T	8D32P3G	$935	DS-841W	1.15	16.4	100	87.5	1.8	
2	3600	460	145T	8D2P1C	$767	DS-841W	1.15	13.7	70	85.5	2.5	
	3600	575	145T	8D2P1G	$767	DS-841W	1.15	13.7	70	86.5	2	
	1800	460	145T	8D2P2C	$779	DS-841W	1.15	13.7	80	86.5	2.7	
	1800	575	145T	8D2P2G	$779	DS-841W	1.15	13.7	80	87.5	2.1	
	1200	460	184T	8D2P3C	$1,098	DS-841W	1.15	16.4	110	88.5	3.1	
	1200	575	184T	8D2P3G	$1,098	DS-841W	1.15	16.4	110	88.5	2.5	
3	3600	460	182T	8D3P1C	$854	DS-841W	1.15	16.4	80	86.5	4.1	
	3600	575	182T	8D3P1G	$854	DS-841W	1.15	16.4	80	86.5	3.3	
	1800	460	182T	8D3P2C	$815	DS-841W	1.15	16.4	100	89.5	3.9	
	1800	575	182T	8D3P2G	$815	DS-841W	1.15	16.4	100	89.5	3.1	
	1200	460	213T	8D3P3C	$1,453	DS-841W	1.15	19.7	170	89.5	4.3	
	1200	575	213T	8D3P3G	$1,453	DS-841W	1.15	19.7	170	89.5	3.5	
5	3600	460	184T	8D5P1C	$1,013	DS-841W	1.15	16.4	100	88.5	6.1	
	3600	575	184T	8D5P1G	$1,013	DS-841W	1.15	16.4	100	88.5	4.9	
	1800	460	184T	8D5P2C	$929	DS-841W	1.15	16.4	110	89.5	6.3	
	1800	575	184T	8D5P2G	$929	DS-841W	1.15	16.4	110	89.5	5.1	
	1200	460	215T	8D5P3C	$1,874	DS-841W	1.15	19.7	180	89.5	7.1	
	1200	575	215T	8D5P3G	$1,874	DS-841W	1.15	19.7	180	89.5	5.7	
7 1/2	3600	460	213T	8D7P1C	$1,263	DS-841W	1.15	19.7	140	89.5	9	
	3600	575	213T	8D7P1G	$1,263	DS-841W	1.15	19.7	140	89.5	7.2	
	1800	460	213T	8D7P2C	$1,213	DS-841W	1.15	19.7	170	91.7	9.6	
	1800	575	213T	8D7P2G	$1,213	DS-841W	1.15	19.7	170	91.7	7.8	
	1200	460	254T	8D7P3C	$2,039	DS-841W	1.15	25.1	250	91.0	9.4	
	1200	575	254T	8D7P3G	$2,039	DS-841W	1.15	25.1	250	91.0	7.6	

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC)
World Motor 841 Plus® NEMA®† Premium Efficient

(continued)

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
10	3600	460	215T	8D10P1C	$1,473	DS-841W	1.15	19.7	160	90.2	11.8	
	3600	575	215T	8D10P1G	$1,473	DS-841W	1.15	19.7	160	90.2	9.4	
	1800	460	215T	8D10P2C	$1,511	DS-841W	1.15	19.7	180	91.7	12.8	
	1800	575	215T	8D10P2G	$1,511	DS-841W	1.15	19.7	180	91.7	10.3	
	1200	460	256T	8D10P3C	$2,470	DS-841W	1.15	25.0	280	91.0	12.4	
	1200	575	256T	8D10P3G	$2,470	DS-841W	1.15	25.0	280	91.0	10	
15	3600	460	254T	8D15P1C	$1,984	DS-841W	1.15	25.1	270	91.0	17.4	
	3600	575	254T	8D15P1G	$1,984	DS-841W	1.15	25.1	270	91.0	13.9	
	1800	460	254T	8D15P2C	$1,932	DS-841W	1.15	25.1	270	92.4	18	
	1800	575	254T	8D15P2G	$1,932	DS-841W	1.15	25.1	270	92.4	14.5	
	1200	460	284T	8D15P3C	$3,283	DS-841W	1.15	27.7	340	91.7	18.5	
	1200	575	284T	8D15P3G	$3,283	DS-841W	1.15	27.7	340	91.7	14.7	
20	3600	460	256T	8D20P1C	$2,459	DS-841W	1.15	25.1	280	91.0	23	
	3600	575	256T	8D20P1G	$2,459	DS-841W	1.15	25.1	280	91.0	18.4	
	1800	460	256T	8D20P2C	$2,405	DS-841W	1.15	25.1	300	93.0	23.7	
	1800	575	256T	8D20P2G	$2,405	DS-841W	1.15	25.1	300	93.0	18.9	
	1200	460	286T	8D20P3C	$3,891	DS-841W	1.15	27.7	370	91.7	24.4	
	1200	575	286T	8D20P3G	$3,891	DS-841W	1.15	27.7	370	91.7	19.6	
25	3600	460	284TS	8D25P1CS	$2,796	DS-841W	1.15	26.3	330	91.7	28.8	
	3600	575	284TS	8D25P1GS	$2,796	DS-841W	1.15	26.3	330	91.7	23	
	1800	460	284T	8D25P2C	$2,705	DS-841W	1.15	27.7	360	93.6	29.2	
	1800	575	284T	8D25P2G	$2,705	DS-841W	1.15	27.7	360	93.6	23.3	
	1200	460	324T	8D25P3C	$4,597	DS-841W	1.15	30.3	540	93.0	29.3	
	1200	575	324T	8D25P3G	$4,597	DS-841W	1.15	30.3	540	93.0	23.4	
30	3600	460	286TS	8D30P1CS	$3,355	DS-841W	1.15	26.0	330	91.7	35	
	3600	575	286TS	8D30P1GS	$3,355	DS-841W	1.15	26.0	330	91.7	27.7	
	1800	460	286T	8D30P2C	$3,212	DS-841W	1.15	28.0	370	93.6	35	
	1800	575	286T	8D30P2G	$3,212	DS-841W	1.15	28.0	370	93.6	28.1	
	1200	460	326T	8D30P3C	$5,139	DS-841W	1.15	30.3	560	93.0	35	
	1200	575	326T	8D30P3G	$5,139	DS-841W	1.15	30.3	560	93.0	28	
40	3600	460	324TS	8D40P1CS	$4,815	DS-841W	1.15	28.8	460	92.4	46	
	3600	575	324TS	8D40P1GS	$4,815	DS-841W	1.15	28.8	460	92.4	37	
	1800	460	324T	8D40P2C	$4,009	DS-841W	1.15	30.3	490	94.1	46	
	1800	575	324T	8D40P2G	$4,009	DS-841W	1.15	30.3	490	94.1	37	
	1200	460	364T	8D40P3C	$6,403	DS-841W	1.15	32.4	690	94.1	47	
	1200	575	364T	8D40P3G	$6,403	DS-841W	1.15	32.4	690	94.1	37	
50	3600	460	326TS	8D50P1CS	$5,540	DS-841W	1.15	28.8	520	93.0	56	
	3600	575	326TS	8D50P1GS	$5,540	DS-841W	1.15	28.8	520	93.0	45	
	1800	460	326T	8D50P2C	$4,976	DS-841W	1.15	30.3	600	94.5	56	
	1800	575	326T	8D50P2G	$4,976	DS-841W	1.15	30.3	600	94.5	45	
	1200	460	365T	8D50P3C	$7,964	DS-841W	1.15	32.4	730	94.1	59	
	1200	575	365T	8D50P3G	$7,964	DS-841W	1.15	32.4	730	94.1	47	
60	3600	460	364TS	8D60P1CS	$7,123	DS-841W	1.15	30.3	620	93.6	69	
	3600	575	364TS	8D60P1GS	$7,123	DS-841W	1.15	30.3	620	93.6	55	
	1800	460	364T	8D60P2C	$6,876	DS-841W	1.15	32.4	700	95.0	68	
	1800	575	364T	8D60P2G	$6,876	DS-841W	1.15	32.4	700	95.0	55	
	1200	460	404T	8D60P3C	$9,369	DS-841W	1.15	37.8	1020	94.5	71	
	1200	575	404T	8D60P3G	$9,369	DS-841W	1.15	37.8	1020	94.5	57	

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC)
World Motor 841 Plus® NEMA®† Premium Efficient

(continued)

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
75	3600	460	365TS	8D75P1CS	$9,172	DS-841W	1.15	30.3	710	94.1	83	
	3600	575	365TS	8D75P1GS	$9,172	DS-841W	1.15	30.3	710	93.6	66	
	1800	460	365T	8D75P2C	$8,501	DS-841W	1.15	32.4	750	95.4	85	
	1800	460	365T	8D75P2CB	$9,416	DS-841W	1.15	32.4	750	95.4	85	
	1800	575	365T	8D75P2G	$8,501	DS-841W	1.15	32.4	750	95.4	68	
	1200	460	405T	8D75P3C	$11,146	DS-841W	1.15	37.8	1040	94.5	89	
	1200	460	405T	8D75P3CB	$11,146	DS-841W	1.15	37.8	1040	94.5	89	09
	1200	575	405T	8D75P3G	$11,146	DS-841W	1.15	37.8	1040	94.5	71	
	1200	575	405T	8D75P3GB	$11,146	DS-841W	1.15	37.8	1040	94.5	71	09
100	3600	460	405TS	8D100P1CS	$12,296	DS-841W	1.15	34.8	970	94.1	114	
	3600	575	405TS	8D100P1GS	$12,296	DS-841W	1.15	34.8	970	94.1	91	
	1800	460	405T	8D100P2C	$11,146	DS-841W	1.15	37.8	1060	95.4	115	
	1800	460	405T	8D100P2CB	$11,146	DS-841W	1.15	37.8	1060	95.4	115	09
	1800	460	405TS	8D100P2CS	$11,146	DS-841W	1.15	34.8	1060	95.4	115	
	1800	575	405T	8D100P2G	$11,146	DS-841W	1.15	37.8	1060	95.4	91	
	1800	575	405T	8D100P2GB	$11,146	DS-841W	1.15	37.8	1060	95.4	91	09
	1800	575	405TS	8D100P2GS	$11,146	DS-841W	1.15	34.8	1060	95.4	91	
	1200	460	444T	8D100P3C	$13,923	DS-841W	1.15	44.5	1570	95.0	120	11
	1200	460	444T	8D100P3CB	$13,923	DS-841W	1.15	44.5	1570	95.0	120	09
	1200	575	444T	8D100P3G	$13,923	DS-841W	1.15	44.5	1570	95.0	95	11
125	3600	460	444TS	8D125P1CS	$14,325	DS-841W	1.15	40.8	1430	95.0	142	
	3600	575	444TS	8D125P1GS	$14,325	DS-841W	1.15	40.8	1430	95.0	113	
	1800	460	444T	8D125P2C	$13,454	DS-841W	1.15	44.5	1390	95.4	141	11
	1800	460	444T	8D125P2CB	$13,454	DS-841W	1.15	44.5	1390	95.4	141	09
	1800	460	444TS	8D125P2CS	$13,454	DS-841W	1.15	40.8	1390	95.4	141	
	1800	575	444T	8D125P2G	$13,454	DS-841W	1.15	44.5	1390	95.4	114	11
	1800	575	444T	8D125P2GB	$13,454	DS-841W	1.15	44.5	1390	95.4	114	09
	1800	575	444TS	8D125P2GS	$13,454	DS-841W	1.15	40.8	1390	95.4	114	
	1200	460	445T	8D125P3C	$17,291	DS-841W	1.15	44.5	1620	95.0	153	11
	1200	460	445T	8D125P3CB	$17,291	DS-841W	1.15	44.5	1620	95.0	153	09
	1200	575	445T	8D125P3G	$17,291	DS-841W	1.15	44.5	1620	95.0	125	11
	1200	575	445T	8D125P3GB	$17,291	DS-841W	1.15	44.5	1620	95.0	125	09
150	3600	460	445TS	8D150P1CS	$18,160	DS-841W	1.15	40.8	1530	95.0	167	
	3600	575	445TS	8D150P1GS	$18,160	DS-841W	1.15	40.8	1530	95.0	133	
	1800	460	445T	8D150P2C	$16,203	DS-841W	1.15	44.5	1610	95.8	171	11
	1800	460	445T	8D150P2CB	$16,203	DS-841W	1.15	44.5	1610	95.8	171	09
	1800	460	445TS	8D150P2CS	$16,203	DS-841W	1.15	40.8	1610	95.8	171	
	1800	575	445T	8D150P2G	$16,203	DS-841W	1.15	44.5	1610	95.8	137	11
	1800	575	445T	8D150P2GB	$16,203	DS-841W	1.15	44.5	1610	95.8	137	09
	1200	460	447T	8D150P3C	$19,774	DS-841W	1.15	48.0	1890	95.8	179	
	1200	460	447T	8D150P3CB	$19,774	DS-841W	1.15	48.0	1890	95.8	179	09
	1200	575	447T	8D150P3G	$19,774	DS-841W	1.15	48.0	1830	95.8	143	11
	1200	575	447T	8D150P3GB	$19,774	DS-841W	1.15	48.0	1830	95.8	143	09
200	3600	460	447TS	8D200P1CS	$24,818	DS-841W	1.15	44.3	1730	95.4	222	
	3600	575	447TS	8D200P1GS	$24,818	DS-841W	1.15	44.3	1760	95.4	178	
	1800	460	447T	8D200P2C	$20,985	DS-841W	1.15	48.0	1840	96.2	226	
	1800	460	447T	8D200P2CB	$20,985	DS-841W	1.15	48.0	1840	96.2	226	09
	1800	460	447TS	8D200P2CS	$20,985	DS-841W	1.15	48.0	1840	96.2	226	
	1800	575	447T	8D200P2G	$20,985	DS-841W	1.15	48.0	1840	96.2	181	
	1800	575	447T	8D200P2GB	$20,985	DS-841W	1.15	48.0	1840	96.2	181	09
	1200	460	449T	8D200P3C	$26,128	DS-841W	1.15	53.0	2130	95.8	239	
	1200	460	449T	8D200P3CB	$26,128	DS-841W	1.15	53.0	2130	95.8	239	09

Note 09 Cylindrical Roller Bearing
Note 11 6318/6313 Bearing System

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC)
World Motor 841 Plus® NEMA®† Premium Efficient

(continued)

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
250	3600	460	449TS	8D250P1CS	$30,379	DS-841W	1.15	49.3	2500	95.4	273	
	1800	460	449T	8D250P2C	$26,985	DS-841W	1.15	53.0	2500	96.2	273	
	1800	460	449T	8D250P2CB	$26,985	DS-841W	1.15	53.0	2500	96.2	273	09
	1800	575	449T	8D250P2G	$26,985	DS-841W	1.15	53.0	2500	96.2	224	
300	3600	460	449TS	8P300P1CS	$40,551	DS-841	1.15	51.4	2700	95.8	329	12,106,AP,NWM
	1800	460	449T	8D300P2C	$31,176	DS-841W	1.15	53.0	2500	96.2	326	
	1800	460	449T	8D300P2CB	$31,176	DS-841W	1.15	53.0	2500	96.2	326	09
	1800	575	449T	8D300P2G	$31,176	DS-841W	1.15	53.0	2500	96.2	268	
350	3600	460	5008S	8P350P1CG	$60,348	DS-841	1.15	60.6	4000	95.8	382	12
	1800	460	449T	8P350P2C	$44,306	DS-841	1.15	55.1	2400	96.2	379	AP,NWM
	1800	575	449T	8P350P2G	$44,306	DS-841	1.15	55 .1	2400	96.2	304	AP,NWM
400	3600	460	5008S	8P400P1CG	$65,353	DS-841	1.15	60.6	4000	95.8	432	12
	1800	460	449T	8P400P2C	$49,351	DS-841	1.15	55.1	2400	96.2	434	12,106,AP,NWM,LA
	1800	460	5008S	8P400P2CG	$55,889	DS-841	1.15	60.6	4000	96.2	458	
450	3600	460	5010S	8P450P1C	$73,221	DS-841	1.15	67.6	4800	95.8	483	12
	1800	460	5010S	8P450P2C	$62,733	DS-841	1.15	67.6	4800	96.2	511	
500	3600	460	5012S	8P500P1C	$90,599	DS-841	1.15	75.6	6000	95.8	536	12
	1800	460	5010S	8P500P2C	$69,499	DS-841	1.15	75.6	4800	96.2	566	

Note 09 Cylindrical Roller Bearing
Note 12 Unidirectional Fan – CCW direction facing opposite drive end (FODE)
Note 106 TITAN® 841 (IEEE 841 Features) Note LA
Note AP No F2 convertibility
Note LA Limited Availability
Note NWM Non-World Motor Construction

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) World Motor 841 Plus® NEMA®† Premium Efficient, C-Face Footless

APPLICATIONS:

For constant speed and inverter duty applications in petro-chemical, pulp & paper, automotive, mining and waste treatment industries.

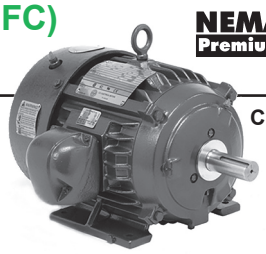
FEATURES:

- Inverter Grade® Insulation System (Meets NEMA®† MG-1 Part 31)
- Class F Insulation, Class B Rise At Full Load (Sine Wave Power)
- All Cast Iron Construction
- Corrosion Resistant Mill & Chem Duty Paint (500 Hour Salt Spray Test)
- Stainless Steel Nameplate & Zinc Plated Hardware
- 40°C Ambient, NEMA®† Design B Performance (Sine Wave Power)
- VBXX®† Bearing Isolators By Inpro/Seal®† On Both Ends For IP55 Bearing Protection
- Same Size Regreasable Open Bearings, Stainless Steel Breathers/Drains
- 5 Year Warranty (3 Years on Inverter Power)
- External Grounding Provision, Epoxy Coated Rotor
- 20:1 (3-60hz) Variable Torque; 5:1 (12-60hz) Constant Torque On Inverter Power
- Precision Balance (< 0.05 In/Sec Vibration)
- 1.15 SF On Sine Wave / 1.0 SF On Inverter Power
- Meets or Exceeds IEEE Std 841™-2021
- Conversion Kits: C&D Flange, Drip Cover Kit, Shaft Grounding
- Self-Certified Class I, Division 2, Groups A, B, C, & D

C-Face Footless

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1	1800	460	143TC	8D1P2CCR	$778	DS-841W	1.15	14.2	70	85.5	1.5	
	1200	460	145TC	8D1P3CCR	$961	DS-841W	1.15	14.2	80	82.5	1.8	
1 1/2	3600	460	143TC	8D32P1CCR	$805	DS-841W	1.15	14.2	65	84.0	1.9	
	1800	460	145TC	8D32P2CCR	$817	DS-841W	1.15	14.2	80	86.5	2.1	
2	3600	460	145TC	8D2P1CCR	$880	DS-841W	1.15	14.2	70	85.5	2.5	
	1800	460	145TC	8D2P2CCR	$890	DS-841W	1.15	14.2	80	86.5	2.7	
	1200	460	184TCH	8D2P3CKR	$1,227	DS-841W	1.15	17.2	110	88.5	3.1	
3	3600	460	182TCH	8D3P1CKR	$993	DS-841W	1.15	17.2	90	86.5	4.1	
	1800	460	182TC	8D3P2CCR	$954	DS-841W	1.15	17.2	110	89.5	3.9	
	1200	460	213TC	8D3P3CCR	$1,503	DS-841W	1.15	20.4	180	89.5	4.3	
5	1800	460	184TC	8D5P2CCR	$1,196	DS-841W	1.15	17.2	120	89.5	6.3	
	1800	460	184TCH	8D5P2CKR	$1,196	DS-841W	1.15	17.2	120	89.5	6.3	
	1200	460	215TC	8D5P3CCR	$2,004	DS-841W	1.15	20.4	190	89.5	7.1	
7 1/2	3600	460	213TC	8D7P1CCR	$1,392	DS-841W	1.15	20.4	150	89.5	9	
	1800	460	213TC	8D7P2CCR	$1,342	DS-841W	1.15	20.4	180	91.7	9.6	
10	3600	460	215TC	8D10P1CCR	$1,602	DS-841W	1.15	20.4	170	90.2	11.8	
	1800	460	215TC	8D10P2CCR	$1,640	DS-841W	1.15	20.4	190	91.7	12.8	

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC)
661 PLUS® NEMA®† Premium Efficient



CE6

APPLICATIONS:

For constant speed and inverter duty heat exchanger applications in petro-chemical industry.

FEATURES:

- INVERTER GRADE® Insulation System (Meets NEMA®† MG-1 Part 31)
- All Cast Iron Construction, IP56 Enclosure
- Corrosion Resistant Mill & Chem Duty Paint (250 Hour Salt Spray Test)
- Stainless Steel Nameplate & Zinc Plated Hardware
- 40°C Ambient, NEMA®† Design B Performance (Sine Wave Power)
- VBXX®† Bearing Isolators By Inpro/Seal®† For IP56 Bearing Protection
- Regreasable Open Bearings, Stainless Breathers/Drains
- External Grounding Provision, Epoxy Coated Rotor
- 10:1 Variable Torque; 5:1 Constant Torque On Inverter Power
- 1.15 SF On Sine Wave / 1.0 SF On Inverter Power
- Internal Bearing Caps, RTV Sealant On Bolt Holes & Register Fits
- Cast Iron Inner Bearing Caps (180 Frame & Larger)
- Conversion Kits: Drip Cover Kit
- 5 Year Warranty (3 Years on Inverter Power), See Page ix for Information
- W6 Assembly Position
- Vertical Shaft Down Lifting & Horizontal Lifting (210 Frame & Larger)
- Self-Certified Class I, Division 2, Groups A, B, C, & D

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
5	1800	460	184T	6D5P2C	$1,152	DS-841W	1.15	16.4	120	89.5	6.3	-
7 1/2	1800	460	213T	6D7P2CB	$1,551	DS-841W	1.15	22.3	170	91.7	9.6	09
10	1800	460	215T	6D10P2CB	$1,862	DS-841W	1.15	22.3	190	91.7	12.8	09
15	1800	460	254T	6P15P2CB	$2,707	DS-841	1.15	25.0	300	92.4	18.3	09
20	1800	460	256T	6P20P2CB	$3,345	DS-841	1.15	25.0	340	93	23.5	09
25	1800	460	284T	6P25P2CB	$3,688	DS-841	1.15	27.7	380	93.6	29.5	09
30	1800	460	286T	6P30P2CB	$4,137	DS-841	1.15	27.7	410	93.6	35.0	09
40	1800	460	324T	6P40P2CB	$5,441	DS-841	1.15	30.8	600	94.1	46.0	09
50	1800	460	326T	6P50P2CB	$6,563	DS-841	1.15	30.8	625	94.5	56.0	09
60	1800	460	364T	6D60P2CB	$7,315	DS-841W	1.15	35.1	745	95.0	68.0	09
75	1800	460	365T	6D75P2CB	$8,936	DS-841W	1.15	35.1	795	95.4	85.0	09

Note 09 Cylindrical Roller Bearing

General Purpose Three Phase
Open Drip Proof (ODP) NEMA®† Premium Efficient



NEMA Premium

DE, RE

APPLICATIONS:

For pumps, fans, compressors, material handling, and other general purpose applications where contaminants are minimal.

FEATURES:

- Class F Insulation, Class B Rise At Service Factor
- Rolled Steel Frame 56-360, Cast Iron Frame 400-440
- Aluminum End Shields 56-250, Cast Iron End Shields 280-440
- 40°C Ambient, NEMA® Design B Performance On 60 Hz Sine Wave Power
- 1.15 Service Factor
- Reversible Rotation
- Regreasable Bearings 210 Frame & Up
- Double Shielded Bearings 140-400, Open on 440
- Bearing Caps On 400 & 440 Frames
- F1 Assembly Position except where noted
- Lifting Provisions 180 Frame & Up
- Conversion Kits: Drip Cover Kits (140-320 Frame)
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs.)	NEMA Nom. Eff.	Full Load Amps	Notes
1/4	1800	208-230/460	48	D14P2B4	$265	DS-3E	1.35	9 .6	17	69.5	1.3-1 .3/.7	
	1800	208-230/460	56H	D14P2AH	$275	DS-3E	1.35	10.9	26	69.5	1.1-1 .1/0.5	
	1800	575	56H	D14P2GH	$275	DS-3E	1.35	10.9	26	69.5	0.41	
	1200	208-230/460	56	D14P3A	$397	DS-3E	1.35	11.9	32	67.2	1.4-1 .4/0.7	
1/3	1800	208-230/460	56H	D13P2AH	$282	DS-3E	1.35	11.4	26	73.4	1.4-1 .4/0.7	
	1800	575	56H	D13P2GH	$282	DS-3E	1.35	11.8	24	73.4	0.46	
1/2	1800	208-230/460	56H	D12P2AH	$322	DS-3E	1.25	11.4	24	78.2	1.99-1 .9/0.98	
	1800	208-230/460	56	D12P2D	$322	DS-3E	1.00	10.4	20	78.2	2.0-2 .0/1.0	
	1800	575	56H	D12P2GH	$322	DS-3E	1.25	11.4	24	78.2	0.68	
	1200	208-230/460	56H	D12P3AH	$511	DS-3E	1.25	12.4	38	75.3	2.4/1.2	
3/4	3600	230/460	48	D34P1B	$346	DS-3E	1.25	10.1	19	76.8	2.4/1 .2	
	1800	208-230/460	56	D34P2AH	$359	DS-3E	1.25	10.0	25	81.1	2.8-2 .8/1.4	
	1800	208-230/460	56H	D34PA2AH	$489	DS-3E	1.25	11.9	26	81.1	2.3-2.2/1.16	
	1800	575	56H	D34P2GH	$359	DS-3E	1.25	12.3	26	85.5	0.93	
1	3600	208-230/460	56	D1P1A	$400	DS-3E	1.25	10.4	25	77.0	2.8-2 .8/1.4	
	1800	200	143T	D1P2H	$443	DS-3E	1.15	12.8	30	85.5	3.6	
	1800	208-230/460	56H	D1P2AH	$405	DS-3E	1.15	12.4	32	83.5	3.2-3 .0/1.5	
	1800	208-230/460	56HZ	D1P2DHZ	$443	DS-3E	1.15	13.8	26	83.5	3.3-3 .3/1.6	
	1800	208-230/460	143T	D1P2D	$443	DS-3E	1.15	12.8	30	85.5	3.2-3 .1/1.6	03
	1800	575	56H	D1P2GH	$405	DS-3E	1.15	12.4	32	85.5	1.1	
	1800	575	143T	D1P2G	$443	DS-3E	1.15	12.8	30	85.5	1.3	
	1200	200	145T	D1P3H	$595	DS-3E	1.15	14.1	35	82.5	4.5	
	1200	208-230/460	145T	D1P3D	$595	DS-3E	1.15	14.1	35	82.5	4-4/2	03
	1200	575	145T	D1P3G	$595	DS-3E	1.15	14.1	35	82.5	1.6	
	900	230/460	182T	D1P4E	$686	DS-3E	1.15	13.7	50	75.5	4.5/2.2	03
1 1/2	3600	200	143T	D32P1H	$472	DS-3E	1.15	12.8	30	84.0	4.3	
	3600	208-230/460	143T	D32P1D	$472	DS-3E	1.15	12.8	30	85.5	4.2-3 .8/1.9	03
	3600	575	143T	D32P1G	$472	DS-3E	1.15	12.8	30	85.5	1.5	
	1800	200	145T	D32P2H	$466	DS-3E	1.15	12.8	35	86.5	4.9	
	1800	208-230/460	56H	D32P2AH	$466	DS-3E	1.15	12.9	33	86.5	5.0-4 .8/2.4	
	1800	208-230/460	145T	D32P2D	$466	DS-3E	1.15	12.8	35	86.5	4.4-4 .2/2.1	03
	1800	230/460	145T	D32P2B2	$466	DS-3E	1.15	12.8	45	86.5	4.2/2.1	05
	1800	575	56H	D32P2GH	$466	DS-3E	1.15	13.9	35	86.5	1.6	
	1800	575	145T	D32P2G	$466	DS-3E	1.15	12.8	35	86.5	1.7	
	1200	200	182T	D32P3H	$600	DS-3E	1.15	15.0	45	86.5	6.3	
	1200	208-230/460	182T	D32P3D	$600	DS-3E	1.15	13.7	45	86.5	5.2-5 .3/2.6	03
	1200	575	182T	D32P3G	$600	DS-3E	1.15	13.7	45	86.5	2.1	
2	3600	200	145T	D2P1H	$515	DS-3E	1.15	12.8	35	85.5	5.6	
	3600	208-230/460	56H	D2P1AH	$462	DS-3E	1.15	11.9	32	85.5	6.0-5 .4/2.7	
	3600	208-230/460	145T	D2P1D	$515	DS-3E	1.15	12.8	35	85.5	5.5-5/2.5	03
	3600	575	145T	D2P1G	$515	DS-3E	1.15	12.8	35	85.5	2	
	1800	200	145T	D2P2H	$512	DS-3E	1.15	12.8	35	86.5	6.4	
	1800	208-230/460	56H	D2P2AH	$415	DS-3E	1.15	12.9	40	86.5	6.6-6.6/3 .3	
	1800	208-230/460	56HZ	D2P2DHZ	$444	DS-3E	1.15	14.3	42	86.5	6.2-6.0/3 .0	
	1800	208-230/460	145T	D2P2D	$512	DS-3E	1.15	12.8	35	86.5	5.9-5 .6/2 .8	03
	1800	230/460	145T	D2P2B2	$512	DS-3E	1.15	12.8	35	86.5	5.6/2 .8	05

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 05 F2 Assembly Position

General Purpose Three Phase
Open Drip Proof (ODP) NEMA®† Premium Efficient

(continued)



NEMA Premium

DE, RE

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs.)	NEMA Nom. Eff.	Full Load Amps	Notes
2	1800	575	56H	D2P2GH	$484	DS-3E	1.15	12.9	35	86.5	2.2	
	1800	575	145T	D2P2G	$512	DS-3E	1.15	12.8	35	85.5	2 .2	
	1200	200	184T	D2P3H	$672	DS-3E	1.15	15.0	60	87.5	7 .3	
	1200	208-230/460	184T	D2P3D	$672	DS-3E	1.15	13.7	60	87.5	6 .4-6 .3/3 .1	03
	1200	575	184T	D2P3G	$672	DS-3E	1.15	15.0	60	87.5	2 .5	
	900	230/460	213T	D2P4E	$1,119	DS-3E	1.15	16.0	90	86.5	7.2/3 .6	03
3	3600	200	145T	D3P1H	$529	DS-3E	1.15	12.8	35	85.5	8 .4	
	3600	208-230/460	145T	D3P1D	$529	DS-3E	1.15	12.8	35	85.5	8.3-7 .4/3.7	03
	3600	575	145T	D3P1G	$529	DS-3E	1.15	12.8	35	85.5	2 .9	
	1800	200	182T	D3P2H	$544	DS-3E	1.15	13.7	50	89.5	8 .8	
	1800	208-230/460	56HZ	D3P2AHZ	$576	DS-3E	1.15	13.5	21	86.9	9.7-9 .4/4.6	
	1800	208-230/460	182T	D3P2D	$544	DS-3E	1.15	13.7	50	90.2	8.3-7 .6/3.8	03
	1800	208-230/460	182T	D3PA2D	$794	DS-3E	1.15	15.0	50	90.2	8.3-7 .6/3.8	24
	1800	575	182T	D3P2G	$544	DS-3E	1.15	13.7	50	89.5	3.1	
	1200	200	213T	D3P3H	$855	DS-3E	1.15	16.0	90	88.5	10.5	
	1200	208-230/460	213T	D3P3D	$855	DS-3E	1.15	16.0	94	88.5	9.4-8 .9/4.4	
	1200	575	213T	D3P3G	$855	DS-3E	1.15	16.0	90	88.5	3.6	
	900	230/460	215T	D3P4E	$1,435	DS-3E	1.15	17.5	105	87.5	10.8/5.4	03
5	3600	200	182T	D5P1H	$564	DS-3E	1.15	13.7	50	88.5	14 .1	
	3600	208-230/460	182T	D5P1D	$564	DS-3E	1.15	13.7	50	86.5	13.8-12 .5/6.2	03
	3600	575	182T	D5P1G	$564	DS-3E	1.15	13.7	50	87.5	5	
	1800	200	184T	D5P2H	$586	DS-3E	1.15	13.7	70	89.5	14.2	
	1800	208-230/460	184T	D5P2D	$586	DS-3E	1.15	13.7	70	89.5	13.7-12 .4/6.2	03
	1800	208-230/460	184T	D5PA2A	$836	DS-3E	1.15	15.0	60	89.5	13.8-12 .6/6.3	24,LA
	1800	575	184T	D5P2G	$586	DS-3E	1.15	13.7	70	89.5	4.9	
	1200	200	215T	D5P3H	$1,122	DS-3E	1.15	17.5	105	89.5	16.1	
	1200	208-230/460	215T	D5P3D	$1,122	DS-3E	1.15	17.5	105	89.5	15.2-14 .5/7.3	LA
	1200	575	215T	D5P3G	$1,122	DS-3E	1.15	17.5	105	89.5	5.7	
	900	575	254T	D5P4G	$2,271	DS-3E	1.15	22.6	150	88.5	6 .2	02
7 1/2	3600	200	184T	D7P1H	$880	DS-3E	1.15	13.7	60	88.5	20 .8	
	3600	208-230/460	184T	D7P1D	$880	DS-3E	1.15	13.7	60	88.5	20 .3-18 .1/9.1	03
	3600	575	184T	D7P1G	$880	DS-3E	1.15	13.7	60	88.5	7.3	
	1800	200	213T	D7P2H	$857	DS-3E	1.15	16.0	94	91.0	21.4	
	1800	208-230/460	213T	D7P2D	$857	DS-3E	1.15	16.0	105	91.0	20.2-18 .5/9.3	
	1800	208-230/460	213T	D7PA2A	$1,207	DS-3E	1.15	16.0	90	91.0	20.5-18 .5/9.2	24
	1800	575	213T	D7P2G	$857	DS-3E	1.15	16.0	94	91.0	7.3	
	1200	200	254T	D7P3H	$1,423	DS-3E	1.15	22.6	150	91.0	21.9	
	1200	208-230/460	254T	D7P3D	$1,423	DS-3E	1.15	19.1	150	91.0	20.5-18 .9/9.5	02,03
	1200	575	254T	D7P3G	$1,423	DS-3E	1.15	19.1	150	91.0	7.6	02
	900	208-230/460	256T	D7P4D	$2,889	DS-3E	1.15	22.6	160	89.5	23.7-22 .7/11.3	02,03
	900	575	256T	D7P4G	$2,889	DS-3E	1.15	23.2	160	89.5	9.1	02
10	3600	200	213T	D10P1H	$1,029	DS-3E	1.15	16.0	90	90.2	28	
	3600	208-230/460	213T	D10P1D	$1,029	DS-3E	1.15	16.0	90	90.2	27.1-24 .3/12.2	03
	3600	575	213T	D10P1G	$1,029	DS-3E	1.15	16.0	90	90.2	9.7	
	1800	200	215T	D10P2H	$1,043	DS-3E	1.15	17.5	100	91.7	28.1	
	1800	208-230/460	215T	D10P2D	$1,043	DS-3E	1.15	17.5	133	92.4	26.3-23 .8/11.9	
	1800	575	215T	D10P2G	$1,043	DS-3E	1.15	17.5	104	91.7	9.8	
	1200	200	256T	D10P3H	$1,851	DS-3E	1.15	23.2	160	91.7	29.3	
	1200	208-230/460	256T	D10P3D	$1,851	DS-3E	1.15	21.0	160	91.7	27.2-25/12.5	02,03
	1200	575	256T	D10P3G	$1,851	DS-3E	1.15	20.4	160	91.7	10.2	02
	900	230/460	284T	D10P4E	$3,266	DS-3E	1.15	24.9	225	90.2	29.5/14.8	02,03

Note 02 Suitable for Wye-Delta start on voltages shown
Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate
Note 24 Automatic Reset Thermal Protector Overload
Note LA Limited Availability

General Purpose Three Phase
Open Drip Proof (ODP) NEMA®† Premium Efficient



NEMA Premium

(continued)

DE, RE

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs.)	NEMA Nom. Eff.	Full Load Amps	Notes
15	3600	200	215T	D15P1H	$1,414	DS-3E	1.15	17.5	100	90.2	41	
	3600	208-230/460	215T	D15P1D	$1,414	DS-3E	1.15	17.5	100	90.2	40-36/18	03
	3600	575	215T	D15P1G	$1,414	DS-3E	1.15	17.5	104	90.2	14 .6	
	1800	200	254T	D15P2H	$1,426	DS-3E	1.15	19.1	150	93.0	42	02
	1800	208-230/460	254T	D15P2D	$1,426	DS-3E	1.15	19.1	150	93.0	40-37/18.3	02,03
	1800	575	254T	D15P2G	$1,426	DS-3E	1.15	19.1	150	93.0	14.8	02
	1200	200	284T	D15P3H	$2,363	DS-3E	1.15	24.9	300	91.7	42	
	1200	208-230/460	284T	D15P3D	$2,363	DS-3E	1.15	24.9	300	91.7	41-37/18.5	LA
	1200	208-230/460	284T	D15P3E	$2,363	DS-3E	1.15	24.9	225	91.7	37/18.5	02,G
	1200	575	284T	D15P3G	$2,363	DS-3E	1.15	24.9	300	91.7	14.7	02
	900	208-230/460	286T	D15P4D	$4,292	DS-3E	1.15	24.9	250	90.2	46/43	02,03
20	3600	200	254T	D20P1H	$1,711	DS-3E	1.15	22.6	150	91.7	53	02
	3600	208-230/460	254T	D20P1D	$1,711	DS-3E	1.15	22.6	150	91.7	52-46/23.1	02,03
	3600	575	254T	D20P1G	$1,711	DS-3E	1.15	22.6	150	91.0	18.7	02
	1800	200	256T	D20P2H	$1,829	DS-3E	1.15	23.2	160	93.0	54	02
	1800	208-230/460	256T	D20P2D	$1,829	DS-3E	1.15	23.2	160	93.0	52-47/23.6	02,03
	1800	575	256T	D20P2G	$1,829	DS-3E	1.15	23.2	160	93.0	18.8	02
	1200	200	286T	D20P3H	$2,880	DS-3E	1.15	24.9	325	92.4	56	
	1200	208-230/460	286T	D20P3D	$2,880	DS-3E	1.15	24.9	325	92.4	53-48/24	02,03
	1200	575	286T	D20P3G	$2,880	DS-3E	1.15	24.9	325	92.4	19.3	02
25	3600	200	256T	D25P1H	$2,237	DS-3E	1.15	23.2	160	91.7	67	02
	3600	208-230/460	256T	D25P1D	$2,237	DS-3E	1.15	23.2	160	91.7	65-57/28 .7	02,03
	3600	575	256T	D25P1G	$2,237	DS-3E	1.15	23.2	160	91.7	22 .9	02
	1800	200	284T	D25P2H	$2,214	DS-3E	1.15	24.9	300	93.6	67	02,03
	1800	200	284TS	D25P2HS	$2,214	DS-3E	1.15	23.5	300	93.6	67	
	1800	208-230/460	284T	D25P2D	$2,214	DS-3E	1.15	24.9	300	93.6	64-58/29	02,03,LA
	1800	208-230/460	284T	D25P2E	$2,214	DS-3E	1.15	24.9	225	93.6	65-58/29.2	02,G
	1800	230/460	284TS	D25P2ES	$2,214	DS-3E	1.15	23.0	225	93.6	58/29.2	
	1800	575	284T	D25P2G	$2,214	DS-3E	1.15	24.9	300	93.6	23.1	
	1800	575	284TS	D25P2GS	$2,214	DS-3E	1.15	23.5	300	93.6	23 .1	02
	1200	200	324T	D25P3H	$3,163	DS-3E	1.15	27.3	385	93.0	67	02
	1200	208-230/460	324T	D25P3D	$3,163	DS-3E	1.15	27.3	385	93.0	65-58/29.1	02,03
	1200	575	324T	D25P3G	$3,163	DS-3E	1.15	27.3	385	93.0	23.5	02
	900	230/460	326T	D25P4E	$5,113	DS-3E	1.15	27.3	460	91.0	67/33	02,03
30	3600	200	284TS	D30P1HS	$2,637	DS-3E	1.15	23.5	225	92.4	78	02
	3600	230/460	284TS	D30P1ES	$2,637	DS-3E	1.15	23.0	225	91.7	69/34	02,G
	3600	575	284TS	D30P1GS	$2,637	DS-3E	1.15	23.5	312	93.0	27.4	
	1800	200	286T	D30P2H	$2,629	DS-3E	1.15	24.9	350	94.1	79	
	1800	200	286TS	D30P2HS	$2,629	DS-3E	1.15	23.5	350	94.1	79	
	1800	208-230/460	286T	D30P2D	$2,629	DS-3E	1.15	24.9	250	94.1	77-69/34	
	1800	208-230/460	286TS	D30P2DS	$2,629	DS-3E	1.15	23.5	250	94.1	77-69/34	
	1800	575	286T	D30P2G	$2,629	DS-3E	1.15	24.9	362	94.1	27.7	
	1800	575	286TS	D30P2GS	$2,629	DS-3E	1.15	23.5	350	94.1	27.5	02
	1200	200	326T	D30P3H	$3,629	DS-3E	1.15	27.3	415	93.6	81	02,14
	1200	208-230/460	326T	D30P3D	$3,629	DS-3E	1.15	27.3	415	93.6	78-70/35	02,03,14
	1200	575	326T	D30P3G	$3,629	DS-3E	1.15	27.3	415	93.6	28	02,14

Note 02 Suitable for Wye-Delta start on voltages shown

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 14 NEMA®† Design A

Note G 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 200/400 volt 50 Hz, 460V 60 Hz ratings operate on 400V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note LA Limited Availability

General Purpose Three Phase
Open Drip Proof (ODP) NEMA®† Premium Efficient

(continued)



NEMA Premium

DE, RE

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs.)	NEMA Nom. Eff.	Full Load Amps	Notes
40	3600	200	286TS	D40P1HS	$2,883	DS-3E	1.15	23.5	250	93.0	104	02
	3600	208-230/460	286TS	D40P1ES	$2,883	DS-3E	1.15	23.0	250	92.4	90/45	02,G
	3600	575	286TS	D40P1GS	$2,883	DS-3E	1.15	23.5	362	93.0	36	
	1800	200	324T	D40P2H	$2,889	DS-3E	1.15	25.8	454	94.1	105	02
	1800	200	324TS	D40P2HS	$2,889	DS-3E	1.15	25.8	454	94.1	105	02
	1800	208-230/460	324T	D40P2D	$2,889	DS-3E	1.15	27.3	385	94.1	102-91/46	02,03
	1800	208-230/460	324TS	D40P2DS	$2,889	DS-3E	1.15	25.8	454	94.1	102-91/46	02,03
	1800	575	324T	D40P2G	$2,889	DS-3E	1.15	27.3	454	94.5	37	
	1800	575	324TS	D40P2GS	$2,889	DS-3E	1.15	25.8	454	94.1	36	02
	1200	230/460	364T	D40P3E	$5,786	DS-3E	1.15	28.7	580	94.5	92/46	02,03
	1200	575	364T	D40P3G	$5,786	DS-3E	1.15	28.7	580	94.5	37	02
	900	230/460	365T	D40P4E	$7,020	DS-3E	1.15	29.7	600	92.4	106/53	02,03
50	3600	200	324TS	D50P1HS	$3,243	DS-3E	1.15	25.8	385	93.0	134	02
	3600	208-230/460	324TS	D50P1ES	$3,243	DS-3E	1.15	25.3	385	93.0	125-112/56	02,G
	3600	575	324TS	D50P1GS	$3,243	DS-3E	1.15	25.8	385	93.0	47	02
	1800	200	326T	D50P2H	$3,386	DS-3E	1.15	27.3	415	94.5	130	02
	1800	200	326TS	D50P2HS	$3,386	DS-3E	1.15	25.8	415	94.5	130	02
	1800	208-230/460	326T	D50P2D	$3,386	DS-3E	1.15	27.3	460	94.5	126-113/56	02,03
	1800	208-230/460	326TS	D50P2DS	$3,386	DS-3E	1.15	25.8	415	94.5	56	02,03
	1800	460 & 380	326TS	D50P2FS	$3,386	DS-3E	1.15	25.8	415	94.5	56	02,03
	1800	575	326T	D50P2G	$3,386	DS-3E	1.15	27.3	460	94.5	46	
	1800	575	326TS	D50P2GS	$3,386	DS-3E	1.15	25.8	415	94.5	45	02
	1200	230/460	365T	D50P3E	$6,506	DS-3E	1.15	29.7	580	94.5	115/57	
	1200	575	365T	D50P3G	$6,506	DS-3E	1.15	29.7	580	94.5	46	02
	900	230/460	404T	D50P4E	$8,364	DS-3E	1.15	32.5	750	92.4	132/66	02,03
60	3600	200	326TS	D60P1HS	$4,469	DS-3E	1.15	25.8	460	93.6	155	02
	3600	208-230/460	326TS	D60P1ES	$4,469	DS-3E	1.15	25.3	460	93.6	134/67	02,G
	3600	575	326TS	D60P1GS	$4,469	DS-3E	1.15	25.8	415	93.6	54	02,14
	1800	230/460	364T	D60P2E	$4,657	DS-3E	1.15	28.7	580	95.0	138/69	02,03
	1800	230/460	364TS	D60P2ES	$4,657	DS-3E	1.15	26.6	580	95.0	138/69	
	1800	460 & 380	364TS	D60P2FS	$4,657	DS-3E	1.15	26.6	580	95.0	69	
	1800	575	364T	D60P2G	$4,657	DS-3E	1.15	28.7	580	95.0	55	02
	1800	575	364TS	D60P2GS	$4,657	DS-3E	1.15	26.6	580	95.0	55	02
	1200	230/460	404T	D60P3E	$7,706	DS-3E	1.15	32.6	750	95.0	137/69	02,03
	1200	575	404T	D60P3G	$7,706	DS-3E	1.15	32.6	750	94.5	55	
	900	230/460	405T	D60P4E	$9,698	DS-3E	1.15	34.0	800	93.0	157/79	02,03
75	3600	230/460	364TS	D75P1ES	$5,886	DS-3E	1.15	26.6	580	94.1	171/86	
	3600	575	364TS	D75P1GS	$5,886	DS-3E	1.15	26.6	580	94.1	69	02
	1800	230/460	365T	D75P2E	$5,514	DS-3E	1.15	29.7	735	95.0	172/86	02,03
	1800	230/460	365TS	D75P2ES	$5,514	DS-3E	1.15	27.6	600	95.0	172/86	
	1800	460 & 380	365TS	D75P2FS	$5,514	DS-3E	1.15	27.6	600	95.0	86	
	1800	575	365T	D75P2G	$5,514	DS-3E	1.15	29.7	600	95.0	69	02
	1800	575	365TS	D75P2GS	$5,514	DS-3E	1.15	27.6	600	95.0	69	02
	1200	230/460	405T	D75P3E	$8,674	DS-3E	1.15	34.1	800	95.0	172/86	02,03
	1200	575	405T	D75P3G	$8,674	DS-3E	1.15	34.1	800	94.5	69	02
	900	230/460	444T	D75P4E	$11,665	DS-3E	1.15	39.8	1100	94.1	194/97	02,03

Note 02 Suitable for Wye-Delta start on voltages shown

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 14 NEMA®† Design A

Note G 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 200/400 volt 50 Hz, 460V 60 Hz ratings operate on 400V 50 Hz; Full 60 & 50 Hz data on Nameplate

General Purpose Three Phase
Open Drip Proof (ODP) NEMA®† Premium Efficient



NEMA Premium

(continued)

DE, RE

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs.)	NEMA Nom. Eff.	Full Load Amps	Notes
100	3600	230/460	365TS	D100P1ES	$6,500	DS-3E	1.15	27.6	600	94.1	224/112	LA
	3600	575	365TS	D100P1GS	$6,500	DS-3E	1.15	27.6	600	94.1	90	02
	1800	230/460	404T	D100P2E	$6,571	DS-3E	1.15	32.6	750	95.4	226/113	02,03
	1800	230/460	404TS	D100P2ES	$6,571	DS-3E	1.15	29.6	750	95.4	226/113	02,03
	1800	460 & 380	404TS	D100P2FS	$6,571	DS-3E	1.15	29.6	750	95.4	113	02,03
	1800	575	404T	D100P2G	$6,571	DS-3E	1.15	32.6	750	95.4	90	02
	1800	575	404TS	D100P2GS	$6,571	DS-3E	1.15	29.6	750	95.4	90	02
	1200	230/460	444T	D100P3E	$10,274	DS-3E	1.15	39.8	1100	95.0	234/117	02,03
	1200	575	444T	D100P3G	$10,274	DS-3E	1.15	39.8	1100	95.0	94	02
	900	230/460	445T	D100P4E	$16,450	DS-3E	1.15	39.8	1200	94.1	255/128	02,03
125	3600	460 & 380	404TS	D125P1FS	$8,706	DS-3E	1.15	29.6	750	95.0	136	02,03
	3600	575	404TS	D125P1GS	$8,706	DS-3E	1.15	29.6	750	94.5	109	02
	1800	460 & 380	405T	D125P2F	$8,743	DS-3E	1.15	34.1	800	95.4	140	02,03
	1800	460 & 380	405TS	D125P2FS	$8,743	DS-3E	1.15	31.1	800	95.4	140	02,03
	1800	575	405T	D125P2G	$8,743	DS-3E	1.15	34.1	800	95.4	112	
	1800	575	405TS	D125P2GS	$8,743	DS-3E	1.15	31.1	800	95.4	112	02
	1200	460 & 380	445T	D125P3F	$11,097	DS-3E	1.15	39.8	1200	95.0	146	02,03
	1200	575	445T	D125P3G	$11,097	DS-3E	1.15	39.8	1200	95.0	118	02
150	3600	460 & 380	405TS	D150P1FS	$10,743	DS-3E	1.15	31.1	800	94.5	164	02,03
	3600	575	405TS	D150P1GS	$10,743	DS-3E	1.15	31.1	813	94.1	131	
	1800	460 & 380	444T	D150P2F	$11,431	DS-3E	1.15	39.8	1100	95.8	170	02,03
	1800	460 & 380	444TS	D150P2FS	$11,431	DS-3E	1.15	36.1	1100	95.8	170	02,03
	1800	575	444T	D150P2G	$11,431	DS-3E	1.15	39.8	1100	95.8	135	02
	1200	460 & 380	445T	D150P3F	$14,949	DS-3E	1.15	39.8	1200	95.4	174	02,03
	1200	575	445T	D150P3G	$14,949	DS-3E	1.15	39.8	1200	95.4	141	
200	3600	460 & 380	444TS	D200P1FS	$13,917	DS-3E	1.15	36.1	1100	95.0	224	02,03
	3600	575	444TS	D200P1GS	$13,917	DS-3E	1.15	36.1	1100	95.0	179	02
	1800	460 & 380	445T	D200P2F	$14,286	DS-3E	1.15	39.8	1200	95.8	225	02,03
	1800	460 & 380	445TS	D200P2FS	$14,286	DS-3E	1.15	36.1	1200	95.8	225	02,03
	1800	575	445T	D200P2G	$14,286	DS-3E	1.15	39.8	1200	95.8	179	02
	1200	460 & 380	447T	D200P3F	$19,649	DS-3E	1.15	43.3	1700	95.4	250	02,03
	1200	575	447T	D200P3G	$19,649	DS-3E	1.15	43.3	1700	95.4	205	02
250	3600	460 & 380	445TS	D250P1FS	$18,343	DS-3E	1.15	36.1	1200	95.0	276	02,03
	3600	575	445TS	D250P1GS	$18,343	DS-3E	1.15	36.1	1200	95.0	222	02
	1800	460 & 380	445T	D250P2FF	$16,151	DS-3E	1.15	39.8	1200	95.8	280	02,03
	1800	460 & 380	445TS	D250P2FFS	$16,151	DS-3E	1.15	36.1	1200	95.8	280	02,03
	1800	575	445T	D250P2GF	$16,151	DS-3E	1.15	39.8	1200	95.8	224	02

Note 02 Suitable for Wye-Delta start on voltages shown
Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate
Note LA Limited Availability

General Purpose Three Phase
Open Drip Proof (ODP) NEMA®† Premium Efficient

(continued)



NEMA Premium

DE, RE

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs.)	NEMA Nom. Eff.	Full Load Amps	Notes
300	3600	460 & 380	445TS	D300P1FFS	$25,362	DS-3E	1.15	36.1	1200	95.4	325	02,03
	1800	460 & 380	447T	D300P2F	$21,169	DS-3E	1.15	43.3	1700	95.8	328	
	1800	460 & 380	447TS	D300P2FS	$21,169	DS-3E	1.15	39.5	1700	95.8	328	
	1800	575	447TS	D300P2GS	$21,169	DS-3E	1.15	39.5	1700	95.8	262	02, 03
350	3600	460 & 380	447TS	D350P1FS	$29,028	DS-3E	1.15	39.5	1723	95.8	379	
	1800	460 & 380	447T	D350P2F	$28,679	DS-3E	1.15	43.3	1700	95.8	383	
400	3600	460 & 380	449TS	D400P1FS	$34,056	DS-3E	1.15	44.5	2000	95.8	432	
	1800	460 & 380	449T	D400P2F	$33,647	DS-3E	1.15	48.3	2000	95.8	442	

Note 02 Suitable for Wye-Delta start on voltages shown
Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

General Purpose Three Phase, Open Drip Proof (ODP) Resilient Base NEMA®† Premium Efficient

APPLICATIONS:

For use on pumps, fans, compressors, material handling and other general purpose applications where contaminants are minimal.

FEATURES:

- Rolled Steel Frame
- Aluminum End Shields
- 40°C Ambient
- F1 Assembly Position
- Resilient Base
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1/3	1800	208-230/460	56H	D13P2AH9	$365	DS-3F	1.35	11.8	24	73.4	1.4-1.4/0.7	
1/2	1800	208-230/460	56H	D12P2AH9	$373	DS-3F	1.25	11.8	25	78.2	1.98-1.9/.98	
3/4	1800	208-230/460	56H	D34P2AH9	$396	DS-3F	1.25	12.3	26	82.2	2.8-2.7/1.4	
1	1800	208-230/460	56H	D1P2DH9	$453	DS-3F	1.15	12.8	32	83.5	3.2-3.0/1.5	
1 1/2	3600	208-230/460	56H	D32PA1AH9	$622	DS-3F	1.15	12.3	32	84.0	4.7-4.4/2.2	LA
	1800	208-230/460	56H	D32P2AH9	$473	DS-3F	1.15	13.3	33	86.5	5.0- 4.8/2.4	

Note LA Limited Availability

General Purpose Three Phase, Open Drip Proof (ODP) NEMA®† Premium Efficient, C-Face



APPLICATIONS:

DE, RE

For use on pumps, fans, compressors, material handling and other general purpose applications where contaminants are minimal.

FEATURES:

- Class F Insulation, Class B Rise At Service Factor On 60 Hertz Sine Wave Power
- Rolled Steel Frame
- Aluminum End Shields 56-250, Cast Iron End Shields 280-440
- Full 50 & 60 Hertz Operating Data On Nameplate (03)
- 40°C Ambient, NEMA® Design B Performance On 60 Hz Sine Wave Power
- Full HP @ 50 Hz
- Regreasable Bearings 210 Frame & Up
- Double Shielded Bearings 48-400
- Suitable For Wye-Delta Start 250 Frame & Larger
- F1 Assembly Position
- Lifting Provisions 210 Frame & Up
- Conversion Kits: Drip Cover Kits (140-320 Frame)
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1	1800	208-230/460	56HC	D1P2AHC	$433	DS-3E	1.15	12.4	26	83.5	3.2-3.0/1.5	
	1800	208-230/460	143TC	D1P2DC	$474	DS-3E	1.15	13.3	30	85.5	3.2-3.1/1.5	
1 1/2	3600	208-230/460	56HC	D32P1AHC	$500	DS-3E	1.15	11.9	32	84.0	4.7-4.4/ 2.2	
	1800	208-230/460	145TC	D32P2DC	$499	DS-3E	1.15	13.3	35	86.5	4.4-4.2/2.1	
2	3600	208-230/460	56HC	D2P1AHC	$494	DS-3E	1.15	11.9	32	85.5	6.0-5.4/2.7	
	3600	208-230/460	145TC	D2P1DC	$551	DS-3E	1.15	12.8	35	85.5	5.5-5/2.5	
	1800	208-230/460	145TC	D2P2DC	$548	DS-3E	1.15	12.8	35	86.5	5.9-5.6/2.8	
3	3600	208-230/460	145TC	D3P1DC	$566	DS-3E	1.15	13.3	35	85.5	8.3-7.4/3.7	
	1800	208-230/460	182TC	D3P2DC	$582	DS-3E	1.15	14.3	50	90.2	8.3-7.6/3.8	
5	3600	208-230/460	182TC	D5P1DC	$603	DS-3E	1.15	14.3	50	86.5	13.9-12.9/6.5	
	1800	208-230/460	184TC	D5P2DC	$627	DS-3E	1.15	15.8	60	89.5	13.7-12.4/6.2	
7 1/2	3600	208-230/460	184TC	D7P1DC	$942	DS-3E	1.15	15.8	60	88.5	20.3-18.1/9	
	1800	208-230/460	213TC	D7P2DC	$917	DS-3E	1.15	16.8	100	91.0	20.2-18.5/9.3	
10	3600	208-230/460	213TC	D10P1DC	$1,101	DS-3E	1.15	16.8	100	90.2	27.1-24.3/12.2	
	1800	208-230/460	215TC	D10P2DC	$1,116	DS-3E	1.15	18.3	110	92.4	26.3-23.8/11.9	
15	3600	208-230/460	215TC	D15P1DC	$1,513	DS-3E	1.15	18.3	100	90.2	40-36/18	
	1800	230/460	254TC	D15P2EC	$1,526	DS-3E	1.15	19.6	150	93.0	37/18.3	02,03
20	3600	230/460	254TC	D20P1EC	$1,831	DS-3E	1.15	19.6	150	91.7	46/23.1	02,03
	1800	230/460	256TC	D20P2EC	$1,957	DS-3E	1.15	20.8	160	93.0	47/23.6	
25	3600	230/460	256TC	D25P1EC	$2,394	DS-3E	1.15	20.8	160	91.7	57/28.7	02,03
	1800	230/460	284TC	D25P2EC	$2,446	DS-3PO	1.15	25.6	225	93.6	58.0/29.2	
30	3600	230/460	284TSC	D30P1ESC	$2,861	DS-3PO	1.15	24.3	225	91.7	69.0/34	
	1800	208-230/460	286TC	D30P2DC	$2,861	DS-3E	1.15	24.9	350	94.1	77-69/34	02,03
40	3600	230/460	286TSC	D40P1ESC	$3,115	DS-3PO	1.15	24.3	250	92.4	90.0/45	
	1800	208-230/460	324TC	D40P2DC	$3,424	DS-3E	1.15	27.3	385	94.1	102-91/46	02,03
50	3600	208-230/460	324TSC	D50P1DSC	$3,778	DS-3E	1.15	25.8	385	93.0	130-117/59	02,03
	1800	208-230/460	326TC	D50P2DC	$3,921	DS-3E	1.15	27.3	460	94.5	126-113/56	02,03

Footless

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1/4	1800	208-230/460	56C	D14P2ACR	$281	DS-3E	1.35	10.9	26	69.5	1.1-1.2/0.6	
1/3	3600	575	56C	D13P1GCR	$305	DS-0	1.15	11.9	35	73.3	0.68	
	1800	208-230/460	56C	D13P2ACR	$299	DS-3E	1.35	10.9	26	73.4	1.4-1.4/0.7	
	1800	575	56C	D13P2GCR	$299	DS-0	1.15	11.39	26	74.8	0.5	
1/2	1800	208-230/460	56C	D12P2ACR	$342	DS-3E	1.25	11.4	26	78.2	1.98-1.9/.98	
3/4	1800	208-230/460	56C	D34P2ACR	$381	DS-3E	1.25	11.9	26	81.1	2.8-2.7/1.4	
1 1/2	3600	208-230/460	56C	D32P1ACR	$502	DS-3E	1.15	11.9	32	84.0	4.7-4.4/2.2	
	1800	208-230/460	56C	D32P2ACR	$499	DS-3E	1.15	13.9	36	86.5	4.2-4.0/2.0	
2	3600	208-230/460	56C	D2P1ACR	$548	DS-3E	1.15	11.9	32	85.5	6.0-5.4/2.7	
	1800	208-230/460	56C	D2P2ACR	$545	DS-3E	1.15	12.9	26	86.5	6.1-6.2/3.1	

Note 02 Suitable for Wye-Delta start on voltages shown
Note 03 60/50 Hz rated with no derate on HP;
230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz,
460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Div. 1 Hazardous Location NEMA®† Premium Efficient – Dual Label

NEMA Premium



LE, FL

APPLICATIONS:

For pumps, fans, compressors, conveyors and tools located in hazardous locations as defined by Class and Group.

FEATURES:

For all Products Listed in this Section:

- UL®† Listed & CSA®† Certified
- Cast Iron Inner Bearing Caps (180 Frame and Larger)
- 40°C Ambient, NEMA®† Design B Performance
- Regreasable Bearings 180 Frame & Up
- Lifting Provisions, 180 Frame & Up
- Conversion Kits: Cast Iron Fan Cover (180 Frame & Up)
- Sealed Bearings 56-140, Shielded 180 Frame & Up
- Class, Group & Temp Code as Noted Below
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

For Catalog Numbers Beginning with "XS":

- Cast Iron Frame Except Where Noted
- Cast Iron End Brackets & Conduit Box
- Class F Insulation
- 1.00 Service Factor on 60 Hertz Sinewave Power
- Stainless Steel Nameplate & Zinc Plated Hardware
- Shaft Slinger on Pulley End for IP54 Protection

For Catalog Numbers Beginning with "X":

- Cast Iron Frame Except Where Noted
- Cast Iron End Brackets & Conduit Box
- Class F Insulation
- 1.00 Service Factor on 60 Hertz Sinewave Power
- Stainless Steel Nameplate & Zinc Plated Hardware
- Shaft Slinger on Pulley End for IP54 Protection

HP	RPM	Voltage	Frame	Catalog Number	Class I Group	Class II Group	Temp Code	List	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1/2	1800	208-230/460	56	XS12SA2D	CD	EFG	T3C	$505	DS-3CXD	12.4	26	-	2.0-1.9/1.0	13,24,NNP
	1200	208-230/460	56	XS12SA3A	CD	EFG	T3C	$615	DS-3CXD	13.2	32	-	2.2-2.3/1.1	13,24,NNP
3/4	1800	208-230/460	56	XS34SA2A	CD	EFG	T3C	$576	DS-3CXD	13.7	32	-	2.8-2.9/1.4	13,24,NNP
	1200	208-230/460	143T	XS34S3A14	CD	EFG	T3C	$700	DS-3CXD	15.0	32	-	3.1-3.2/1.6	13,NNP
1	1800	230/460	143T	X1P2B	D	FG	T3B	$729	DS-3CXD	12.9	60	85.5	3/1.5	51
	1800	575	143T	X1P2G	D	FG	T3B	$729	DS-3CXD	12.9	60	85.5	1.2	
	1200	230/460	145T	X1P3B	D	FG	T3B	$991	DS-3CXD	12.9	80	82.5	3.8/1.9	
	900	230/460	182T	X1P4B	D	FG	T3B	$1,526	DS-3CXD	15.5	90	75.5	4.8/2.4	
1 1/2	3600	230/460	143T	X32P1B	D	FG	T3B	$840	DS-3CXD	12.9	70	84.0	3.9/1.9	
	1800	208-230/460	145T	XS32P2A14	CD	EFG	T3C	$808	DS-3CXD	15.5	32	86.5	4.7-4.6/2.3	13,24
	1800	230/460	145T	X32P2B	D	FG	T3B	$808	DS-3CXD	12.9	80	86.5	4.3/2.1	
	1800	575	145T	X32P2G	D	FG	T3B	$808	DS-3CXD	12.9	65	86.5	1.7	
	1200	230/460	182T	X32P3B	D	FG	T3B	$1,093	DS-3CXD	15.5	90	87.5	4.6/2.3	
	900	230/460	184T	X32P4B	D	FG	T3B	$1,694	DS-3CXD	15.5	110	78.5	6.1/3	
2	3600	230/460	145T	X2P1B	D	FG	T3B	$998	DS-3CXD	12.9	75	85.5	4.9/2.4	
	1800	208-230/460	56H	XS2PA2AH	CD	EFG	T3C	$886	DS-3CXD	16.7	32	86.5	6.7-6.4/3.2	13,24
	1800	230/460	145T	X2P2B	D	FG	T3B	$886	DS-3CXD	12.9	80	86.5	5.2/2.6	
	1800	575	145T	X2P2G	D	FG	T3B	$886	DS-3CXD	12.9	65	86.5	2.1	
	1200	230/460	184T	X2P3B	D	FG	T3B	$1,216	DS-3CXD	16.0	110	88.5	5.8/2.9	
	900	230/460	213T	X2P4B	D	FG	T3B	$1,880	DS-3CXD	19.1	145	84.0	8.1/4	
3	3600	230/460	182T	X3P1B	D	FG	T3B	$1,116	DS-3CXD	16.0	90	86.5	7.8/3.9	
	1800	230/460	182T	X3P2B	D	FG	T3B	$986	DS-3CXD	16.0	90	89.5	7.7/3.8	
	1800	575	182T	X3P2G	D	FG	T3B	$986	DS-3CXD	16.0	90	89.5	3.1	
	1200	230/460	213T	X3P3B	D	FG	T3B	$1,503	DS-3CXD	19.1	145	89.5	8.8/4.4	
	900	230/460	215T	X3P4B	D	FG	T3B	$2,330	DS-3CXD	19.1	170	85.5	11.9/5.9	
5	3600	230/460	184T	X5P1B	D	FG	T3B	$1,400	DS-3CXD	16.0	110	88.5	12.2/6.1	
	1800	230/460	184T	X5P2B	D	FG	T3B	$1,147	DS-3CXD	16.0	110	89.5	12.5/6.2	
	1800	575	184T	X5P2G	D	FG	T3B	$1,147	DS-3CXD	16.0	110	89.5	5	
	1200	230/460	215T	X5P3B	D	FG	T3B	$2,152	DS-3CXD	19.1	170	89.5	13.9/7	
	900	230/460	254T	X5P4B	CD	FG	T3C	$3,239	DS-3CXD	25.6	300	86.5	18/9	
7 1/2	3600	230/460	213T	X7P1B	D	FG	T3B	$1,730	DS-3CXD	19.1	145	89.5	18.6/9.3	
	1800	230/460	213T	X7P2B	D	FG	T3B	$1,564	DS-3CXD	19.1	145	91.7	18.5/9.3	
	1800	575	213T	X7P2G	D	FG	T3B	$1,564	DS-3CXD	19.1	145	91.7	7.4	
	1200	230/460	254T	X7P3B	CD	FG	T3C	$2,788	DS-3CXD	25.3	300	91.0	18.8/9.4	

Note 13 Steel Frame Construction
Note 24 Automatic Reset Thermal Protector Overload
Note 51 Equipped with Winding Thermostat
Note NNP Non-NEMA®† Premium

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Div. 1 Hazardous Location NEMA®† Premium Efficient – Dual Label

NEMA Premium

(continued)



LE, FL

HP	RPM	Voltage	Frame	Catalog Number	Class I Group	Class II Group	Temp Code	List	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
10	3600	230/460	215T	X10P1B	D	FG	T3B	$2,027	DS-3CXD	19.1	170	90.2	23.6/11.8	
	1800	230/460	215T	X10P2B	D	FG	T3B	$1,889	DS-3CXD	19.1	170	91.7	23.9/12	
	1800	575	215T	X10P2G	D	FG	T3B	$1,889	DS-3CXD	19.1	170	91.7	9.6	
	1200	230/460	256T	X10P3B	CD	FG	T3C	$3,368	DS-3CXD	25.3	320	91.0	24.8/12.4	
15	3600	230/460	254T	X15P1B	CD	FG	T3C	$2,817	DS-3CXD	25.3	320	91.0	35/17.5	
	1800	230/460	254T	X15P2B	CD	FG	T3C	$2,533	DS-3CXD	25.3	316	92.4	37/18.3	
	1800	575	254T	X15P2G	CD	FG	T3C	$2,533	DS-3CXD	25.3	300	92.4	14.6	
	1200	230/460	284T	X15P3B	CD	FG	T3C	$4,617	DS-3CXD	27.0	390	91.7	37/18.2	
20	3600	230/460	256T	X20P1B	CD	FG	T3C	$3,487	DS-3CXD	25.3	375	91.0	46/23	
	1800	230/460	256T	X20P2B	CD	FG	T3C	$3,122	DS-3CXD	25.3	375	93.0	48/23.8	
	1800	575	256T	X20P2G	CD	FG	T3C	$3,122	DS-3CXD	25.3	375	93.0	19	
	1200	230/460	286T	X20P3B	CD	FG	T3C	$5,593	DS-3CXD	27.0	458	91.7	49/24.4	
25	3600	230/460	284TS	X25P1BS	CD	FG	T3C	$4,208	DS-3CXD	25.6	350	91.7	57/28.7	
	1800	230/460	284T	X25P2B	CD	FG	T3C	$3,685	DS-3CXD	27.0	286	93.6	58/28.9	
	1800	575	284T	X25P2G	CD	FG	T3C	$3,685	DS-3CXD	27.0	390	93.6	23	
	1200	230/460	324T	X25P3B	CD	FG	T3C	$6,707	DS-3CXD	30.7	575	93.0	61/31	
30	3600	230/460	286TS	X30P1BS	CD	FG	T3C	$4,934	DS-3CXD	25.6	410	91.7	69/34	
	1800	230/460	286T	X30P2B	CD	FG	T3C	$4,298	DS-3CXD	27.0	433	93.6	69/34	
	1800	575	286T	X30P2G	CD	FG	T3C	$4,298	DS-3CXD	27.0	460	93.6	27.6	
	1200	230/460	326T	X30P3B	CD	FG	T3C	$7,914	DS-3CXD	30.7	685	93.0	74/37	
40	3600	230/460	324TS	X40P1BS	CD	FG	T3C	$6,426	DS-3CXD	29.2	564	92.4	90/45	
	1800	230/460	324T	X40P2B	CD	FG	T3C	$5,656	DS-3CXD	30.7	590	94.1	90/45	
	1800	575	324T	X40P2G	CD	FG	T3C	$5,656	DS-3CXD	30.7	575	94.1	36	
	1200	230/460	364T	X40P3B	CD	FG	T3C	$10,476	DS-3CXD	32.3	725	94.1	92/46	
50	3600	230/460	326TS	X50P1BS	CD	FG	T3C	$8,269	DS-3CXD	29.1	650	93.0	114/57	
	1800	230/460	326T	X50P2B	CD	FG	T3C	$6,944	DS-3CXD	30.7	650	94.5	112/56	
	1800	575	326T	X50P2G	CD	FG	T3C	$6,944	DS-3CXD	30.7	650	94.1	45	
	1200	230/460	365T	X50P3B	CD	FG	T3C	$12,069	DS-3CXD	32.3	950	94.1	115/58	
60	3600	230/460	364TS	X60P1BS	CD	FG	T3C	$10,848	DS-3CXD	30.1	750	93.6	136/68	
	1800	230/460	364T	X60P2B	CD	FG	T3C	$9,924	DS-3CXD	32.3	810	95.0	136/68	
	1800	575	364T	X60P2G	CD	FG	T3C	$9,924	DS-3CXD	32.3	725	95.0	54	
75	3600	230/460	365TS	X75P1BS	CD	FG	T3C	$13,631	DS-3CXD	30.1	850	93.6	166/83	
	1800	230/460	365T	X75P2B	CD	FG	T3C	$12,622	DS-3CXD	32.3	850	95.4	169/84	
	1800	575	365T	X75P2G	CD	FG	T3C	$12,622	DS-3CXD	32.3	875	95.4	67	
100	1800	230/460	405T	X100P2B	CD	FG	T3C	$14,501	DS-3CXD	36.5	1170	95.4	225/113	
	1800	575	405T	X100P2G	CD	FG	T3C	$14,501	DS-3CXD	36.5	1225	95.4	90	
	1200	460	444T	X100P3C	D	FG	T3B	$21,232	DS-3CXD	45.8	1485	95.0	124	
125	1800	460	444T	X125P2C	D	FG	T3B	$17,910	DS-3CXD	45.8	1560	95.4	147	
	1800	575	444T	X125P2G	D	FG	T3B	$17,910	DS-3CXD	45.8	1575	95.4	118	
150	1800	460	445T	X150P2C	D	FG	T3B	$21,257	DS-3CXD	45.8	1625	95.8	171	
	1800	575	445T	X150P2G	D	FG	T3B	$21,257	DS-3CXD	45.8	1800	95.8	137	
200	1800	460	447T	X200P2C	D	FG	T3B	$25,899	DS-3CXD	49.4	2200	96.2	227	
	1800	575	447T	X200P2G	D	FG	T3B	$25,899	DS-3CXD	49.4	2100	95.8	180	

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Div. 1 Hazardous Location NEMA®† Premium Efficient, Single Label, CORRO-DUTY®



NEMA Premium

FLC, LCE

APPLICATIONS:

For pumps, fans, compressors, conveyors and tools located in hazardous locations as defined by Class and Group.

FEATURES:

- UL®† Listed & CSA®† Certified
- All Cast Iron Construction (140 Frame Has Steel Base)
- Corrosion Resistant Mill & Chemical Duty Paint
- Stainless Steel Nameplate & Zinc Plated Hardware
- Shaft Slinger On Pulley End For IP54 Protection
- Cast Iron Inner Bearing Caps (180 Frame & Larger)
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Regreasable Bearings 180 Frame & Up, Lifting Provisions 180 Frame & Up
- Sealed Bearings 56-140, Shielded 180-360, Open 400-440 Frames
- Class F Insulation, Listed For Ambients -25°C To +40°C
- Brass Breather Plug
- Suitable For Inverter Use Per Policy Statement In Introduction, 2:1 CT
- Class I (Group D), T2B Temperature Code
- 1.15 Service Factor On 60 Hertz Sinewave Power

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1/2	1800	230/460	56	Y12S2B	$658	DS-3F	1.00	11.6	47	77.0	1.8-1.7/0.9	13,NNP
3/4	1800	230/460	56	Y34S2B	$694	DS-3F	1.00	11.6	49	78.5	2.7/1.3	13,NNP
1	1800	230/460	143T	YC1P2B	$872	DS-3CX	1.15	13.1	80	85.5	3/1.5	
	1200	230/460	145T	YC1P3B	$1,022	DS-3CX	1.15	13.1	80	82.5	3.8/1.9	
	900	230/460	182T	YC1P4B	$1,741	DS-3CX	1.15	16.1	90	75.5	4.8/2.4	
1 1/2	3600	230/460	143T	YC32P1B	$913	DS-3CX	1.15	13.1	70	84.0	3.9/1.9	
	1800	230/460	145T	YC32P2B	$917	DS-3CX	1.15	13.1	80	86.5	4.3/2.1	
	1200	230/460	182T	YC32P3B	$1,106	DS-3CX	1.15	16.1	90	87.5	4.6/2.3	
	900	230/460	184T	YC32P4B	$2,429	DS-3CX	1.15	16.1	110	78.5	6.1/3	
2	3600	230/460	145T	YC2P1B	$1,017	DS-3CX	1.15	13.1	75	86.5	4.9/2.4	
	1800	230/460	145T	YC2P2B	$980	DS-3CX	1.15	13.1	80	86.5	5.2/2.6	
	1200	230/460	184T	YC2P3B	$1,281	DS-3CX	1.15	16.1	110	88.5	5.8/2.9	
	900	230/460	213T	YC2P4B	$2,599	DS-3CX	1.15	20.0	145	84.0	8.1/4	
3	3600	230/460	182T	YC3P1B	$1,147	DS-3CX	1.15	16.1	90	86.5	7.8/3.9	
	1800	230/460	182T	YC3P2B	$1,149	DS-3CX	1.15	16.1	90	89.5	7.7/3.8	
	1200	230/460	213T	YC3P3B	$1,643	DS-3CX	1.15	20.0	145	89.5	8.8/4.4	
	900	230/460	215T	YC3P4B	$3,227	DS-3CX	1.15	20.0	170	85.5	11.9/5.9	
5	3600	230/460	184T	YC5P1B	$1,445	DS-3CX	1.15	16.1	110	88.5	12.2/6.1	
	1800	230/460	184T	YC5P2B	$1,279	DS-3CX	1.15	16.1	110	89.5	12.5/6.2	
	1200	230/460	215T	YC5P3B	$2,184	DS-3CX	1.15	20.0	170	89.5	13.9/7	
	900	230/460	254T	YC5P4B	$4,411	DS-3CX	1.15	25.0	300	86.5	18/9	
7 1/2	3600	230/460	213T	YC7P1B	$1,683	DS-3CX	1.15	20.0	145	89.5	18.6/9.3	
	1800	230/460	213T	YC7P2B	$1,757	DS-3CX	1.15	20.0	145	91.7	18.6/9.3	
	1200	230/460	254T	YC7P3B	$2,919	DS-3CX	1.15	25.0	300	91.0	18.8/9.4	
	900	230/460	256T	YC7P4B	$5,437	DS-3CX	1.15	25.0	375	86.5	23.3/11.7	
10	3600	230/460	215T	YC10P1B	$2,129	DS-3CX	1.15	20.0	170	90.2	23.6/11.8	
	1800	230/460	215T	YC10P2B	$2,084	DS-3CX	1.15	20.0	170	91.0	24.1/12	
	1200	230/460	256T	YC10P3B	$3,804	DS-3CX	1.15	25.0	375	91.0	24.8/12.4	
	900	230/460	284T	YC10P4B	$6,630	DS-3CX	1.15	27.4	390	89.5	28/14	
15	3600	230/460	254T	YC15P1B	$2,851	DS-3CX	1.15	25.0	300	91.0	35/17.5	
	1800	230/460	254T	YC15P2B	$2,735	DS-3CX	1.15	25.0	300	92.4	37/18.3	
	1200	230/460	284T	YC15P3B	$4,714	DS-3CX	1.15	27.4	390	91.7	37/18.2	
20	3600	230/460	256T	YC20P1B	$3,656	DS-3CX	1.15	25.0	375	91.0	46/23.1	
	1800	230/460	256T	YC20P2B	$3,323	DS-3CX	1.15	25.0	375	93.0	47/23.5	
	1200	230/460	286T	YC20P3B	$5,563	DS-3CX	1.15	27.4	460	91.7	49/24.4	
	900	230/460	324T	YC20P4B	$9,870	DS-3CX	1.15	30.7	575	90.2	53/26.5	

Note 13 Steel Frame Construction
Note NNP Non-NEMA®† Premium

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Div. 1 Hazardous Location NEMA®† Premium Efficient, Single Label, CORRO-DUTY®

(continued)



NEMA Premium

FLC, LCE

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
25	3600	230/460	284TS	YC25P1BS	$4,457	DS-3CX	1.15	26.0	390	91.7	57/28.7	
	1800	230/460	284T	YC25P2B	$3,981	DS-3CX	1.15	27.4	390	93.6	58/28.9	
	1200	230/460	324T	YC25P3B	$6,956	DS-3CX	1.00	30.7	575	93.0	61/31	
	900	230/460	326T	YC25P4B	$11,453	DS-3CX	1.15	30.7	650	90.2	66/33	
30	3600	230/460	286TS	YC30P1BS	$4,835	DS-3CX	1.15	26.0	460	91.7	69/34	
	1800	230/460	286T	YC30P2B	$4,671	DS-3CX	1.15	27.4	460	93.6	69/34	
	1200	230/460	326T	YC30P3B	$8,236	DS-3CX	1.00	30.7	685	93.0	74/37	
40	3600	230/460	324TS	YC40P1BS	$6,466	DS-3CX	1.15	29.2	550	92.4	90/45	
	1800	230/460	324T	YC40P2B	$6,176	DS-3CX	1.15	30.7	590	94.1	90/45	
	1200	230/460	364T	YC40P3B	$10,863	DS-3CX	1.15	33.1	725	94.1	92/46	
50	3600	230/460	326TS	YC50P1BS	$8,520	DS-3CX	1.15	29.2	650	93.0	114/57	
	1800	230/460	326T	YC50P2B	$7,639	DS-3CX	1.00	30.7	650	94.5	112/56	
	1200	230/460	365T	YC50P3B	$12,414	DS-3CX	1.15	33.1	950	94.1	115/58	
60	3600	230/460	364TS	YC60P1BS	$12,381	DS-3CX	1.15	30.9	750	93.6	136/68	
	1800	230/460	364T	YC60P2B	$11,342	DS-3CX	1.15	33.1	810	95.0	136/68	
	1200	230/460	404T	YC60P3B	$14,143	DS-3CX	1.00	38.0	1100	94.5	139/70	
75	3600	230/460	365TS	YC75P1BS	$14,435	DS-3CX	1.15	30.9	850	93.6	166/83	
	1800	230/460	365T	YC75P2B	$14,076	DS-3CX	1.00	33.1	850	95.4	169/84	
	1200	230/460	405T	YC75P3B	$17,169	DS-3CX	1.00	38.0	1225	94.5	174/87	
100	1800	230/460	405T	YC100P2B	$17,179	DS-3CX	1.15	38.0	1244	95.4	225/113	

Definite Purpose Automotive Duty World Motor U Frame Premium Efficient Footed



JDEN, JDE

APPLICATIONS:

For use in automotive and process industries where "U" Frame sizes are specified. Built to meet GM7EH, Ford EM-1 and Chrysler NPEM-105 specifications.

FEATURES:

- Class F Insulation, 60°C Rise At Full Load
- Cast Iron Frame & End Brackets (180 Frame & Larger)
- Corrosion Resistant Mill & Chemical Duty Paint
- Stainless Steel Nameplate & Zinc Plated Hardware
- Shaft Slinger On Pulley End For IP54 Protection
- 1.15 SF @ 40°C; 1.0 SF @ 65°C Ambient, NEMA®1 Design B On 60 Hertz Sine Wave Power
- Regreasable Double Shielded Bearings w/ "Straight-Through" Lube System (180 Frame & Up), Sealed Bearings on 56 Frame
- 85 dBA Max Sound Power Level
- Precision Balance (< 0.075 In/Sec Vib.), Lifting Provisions 180 Frame & Up
- Oversized Diagonally Split Conduit Box w/Lead Positioning Gasket (180 Fr & Up)
- Steel Fan Cover

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1	1800	460	182	A1P2C	$1,049	DS-3ADE	1.15	13.1	85	88.5	1.4	28
	1200	460	184	A1P3C	$1,281	DS-3ADE	1.15	13.2	110	87.5	1.7	28
1 1/2	3600	460	182	A32P1C	$896	DS-3ADE	1.15	15.8	100	84.0	2.2	
	1800	460	184	A32P2C	$1,123	DS-3ADE	1.15	13.2	110	89.5	2.1	28
	1200	460	184	A32P3C	$1,413	DS-3ADE	1.15	15.8	110	87.5	2.5	
2	3600	460	184	A2P1C	$990	DS-3ADE	1.15	15.0	85	84.0	2.7	
	1800	460	184	A2P2C	$1,184	DS-3ADE	1.15	15.0	105	90.2	2.6	
	1200	460	213	A2P3C	$1,566	DS-3ADE	1.15	19.3	150	88.5	3.1	
3	3600	460	184	A3P1C	$1,123	DS-3ADE	1.15	15.8	110	86.5	4	
	1800	460	213	A3P2C	$1,361	DS-3ADE	1.15	19.6	93	91.7	3.8	
	1200	460	215	A3P3C	$1,938	DS-3ADE	1.15	19.3	160	89.5	4.3	
	900	460	254U	A3P4C	$2,452	DS-3ADE	1.15	24.7	300	85.5	5.5	
5	3600	460	213	A5P1C	$1,334	DS-3ADE	1.15	19.3	160	88.5	6.3	
	1800	460	215	A5P2C	$1,803	DS-3ADE	1.15	19.3	160	90.2	6.4	
	1200	460	254U	A5P3C	$2,698	DS-3ADE	1.15	24.7	300	89.5	6.6	
	900	460	256U	A5P4C	$3,314	DS-3ADE	1.15	24.7	340	86.5	8.6	
7 1/2	3600	460	215	A7P1C	$1,622	DS-3ADE	1.15	19.3	175	89.5	9	
	1800	460	254U	A7P2C	$2,371	DS-3ADE	1.15	25.0	300	93.0	8.9	
	1200	460	256U	A7P3C	$3,448	DS-3ADE	1.15	24.7	340	91.0	9.4	
	900	460	284U	A7P4C	$4,228	DS-3ADE	1.15	27.8	380	87.5	11.1	
10	3600	460	254U	A10P1C	$1,942	DS-3ADE	1.15	24.7	300	90.2	11.7	
	1800	460	256U	A10P2C	$2,881	DS-3ADE	1.15	24.7	340	91.7	11.9	
	1200	460	284U	A10P3C	$4,226	DS-3ADE	1.15	27.8	380	91.0	12.4	
	900	460	286U	A10P4C	$4,970	DS-3ADE	1.15	27.8	410	90.2	14.4	
15	3600	460	256U	A15P1C	$2,474	DS-3ADE	1.15	24.7	340	91.0	17.3	
	1800	460	284U	A15P2C	$3,957	DS-3ADE	1.15	27.4	380	93.6	17.4	
	1200	460	324U	A15P3C	$5,690	DS-3ADE	1.15	30.5	600	91.7	18	
	900	460	326U	A15P4C	$6,608	DS-3ADE	1.15	30.5	625	89.5	20	
20	3600	460	286U	A20P1C	$3,365	DS-3ADE	1.15	27.8	410	91.0	23.1	
	1800	460	286U	A20P2C	$4,860	DS-3ADE	1.15	27.4	362	93.6	22.7	
	1200	460	326U	A20P3C	$6,954	DS-3ADE	1.15	30.5	625	91.7	23.6	
	900	460	364U	A20P4C	$8,008	DS-3ADE	1.15	32.8	570	91.0	28.0	
25	3600	460	324US	A25P1CS	$4,317	DS-3ADE	1.15	28.1	600	91.7	28.8	LA
	1800	460	324U	A25P2C	$6,083	DS-3ADE	1.15	30.5	600	93.6	29	LA
	1200	460	364U	A25P3C	$8,396	DS-3ADE	1.15	32.8	590	93.0	29.7	
	900	460	365U	A25P4C	$9,387	DS-3ADE	1.15	33.1	910	91.0	32	

Note 28 TENV Enclosure
Note LA Limited Availability

Definite Purpose Automotive Duty World Motor U Frame Premium Efficient Footed

(continued)



JDEN, JDE

HP	RPM (Max Speed)	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
30	3600	460	326US	A30P1CS	$5,207	DS-3ADE	1.15	28.1	625	91.7	34	LA
	1800	460	326U	A30P2C	$7,107	DS-3ADE	1.15	30.5	625	93.6	35	LA
	1200	460	365U	A30P3C	$9,501	DS-3ADE	1.15	32.8	590	93.0	36	
40	3600	460	364US	A40P1CS	$6,796	DS-3ADE	1.15	30.2	600	92.4	45	
	1800	460	364U	A40P2C	$9,370	DS-3ADE	1.15	32.8	590	94.5	46	
	1200	460	404U	A40P3C	$12,237	DS-3ADE	1.15	37.5	1160	94.1	47	
50	3600	460	365US	A50P1CS	$8,579	DS-3ADE	1.15	30.2	600	93.6	56	
	1800	460	365U	A50P2C	$10,992	DS-3ADE	1.15	32.8	670	94.5	57	
	1200	460	405U	A50P3C	$14,137	DS-3ADE	1.15	37.5	1250	94.1	59	
60	1800	460	405U	A60P2C	$13,649	DS-3ADE	1.15	37.5	1180	95.0	68	
	1200	460	444U	A60P3C	$16,597	DS-3ADE	1.15	45.9	1450	95.4	72	
75	1800	460	444U	A75P2C	$16,834	DS-3ADE	1.15	45.9	1660	95.4	84	
	1200	460	445U	A75P3C	$19,679	DS-3ADE	1.15	44.5	1650	95.0	90	
100	1800	460	445U	A100P2C	$20,925	DS-3ADE	1.15	44.5	1650	95.8	109	

Note LA Limited Availability

Cooling Tower Duty Motors

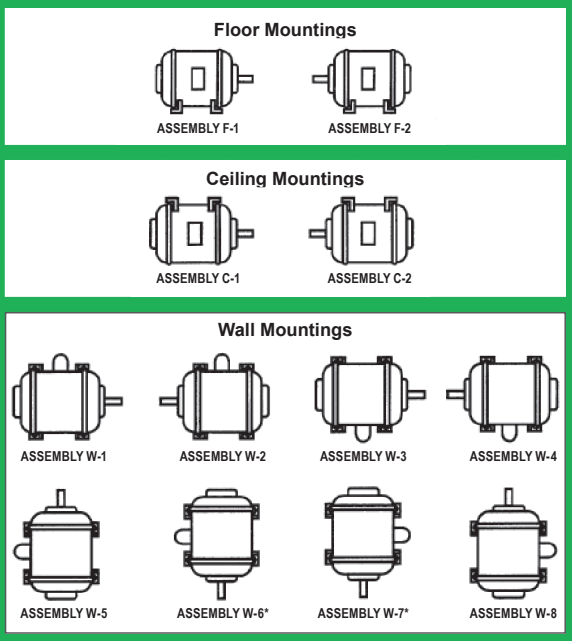
Many of Nidec Motor Corporation's Premium Efficient Cooling Tower motors are stocked for you. Refer to pages 55 to 57.

Stocked motors have the following conversion options: Space Heaters, Thermistors, Shaft Grounding, and Assembly Positions. Stock motors can ship immediately! Conversion orders can ship within 3 days!

Features & Benefits:

- All single speed Premium Efficient models meet NEMA®† Premium efficiency levels
- Thousands of configurations to choose from
- VBXX®† seal installed on "wet" end for Premium Efficient motors
- Rotor balance better than .08 in/sec on Premium Efficient motors
- Meets IEC 34-5 Classification IP55
- Inverter Duty & Two-speed models help customers meet ASHRAE Standard 90.1

Motor Mounting Assembly Guide:



* W6 and W7 available on Totally Enclosed, Air Over Only (TEAO)



Stock World Motor Cooling Tower Duty Three Phase, TEAO & TEFC Premium Efficient, Inverter Duty 10:1 (6-60 Hz) Speed Range Variable Torque, Internal SGR

APPLICATIONS:

For use in Cooling Tower, Evaporative Condenser and other commercial and industrial applications requiring protection from harsh operating conditions with high humidity.

FEATURES:

- INVERTER GRADE® Motors with Insulation that Exceeds the NEMA®† MG-1 Part 31 Standard
- Double Dip & Bake, 100% Solids, Polyester Insulation on Windings
- Class F Insulation, 40°C Ambient
- Cast Iron Frame & Outlet Box
- Cast Iron Bearing Caps
- Double Sealed bearings
- Double Drilled Feet to Accommodate Mounting Flexibility
- Sealed Bracket-to-Frame Registers & Leads
- Stainless Steel Nameplate & Zinc Plated Hardware
- 1.15 Service Factor
- Rotor Balance better than 0.08 in/sec Inverter Compatible: Exceeds NEMA®† MG-1 Part 31 (10:1 Variable Torque)
- NEMA®† Design B Performance on 60 Hertz Sine Wave Power
- Meets IEC 34-5 Classification IP55
- Space Heater (115v)
- Includes CORRO-DUTY® Motor Paint and Rotor Treatment
- Internal Shaft Grounding Ring
- Refer to Page vii for Suitability of IHP Motors on Variable Frequency Drives
- Refer to Page 57 for Minimum Air Velocity Requirements

ORDERING INFORMATION:

Options below available from Southaven Distribution Center ONLY

Option List Prices: Add motor & required options list prices, then use applicable multiplier to calculate net price.

Options	Frame Size								
	140	180	210	250	280	320	360	400	440
Thermistor	$725	$725	$725	$725	$725	$725	$725	$725	$725
TEFC W5 or W8 Mounting	$89	$125	$137	$174	$221	$281	$310	$419	$478

Totally Enclosed Fan Cooled (TEFC)

HP	RPM	Volts	Frame	New Stock Cat#	List Price	Assembly Position	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
3	1800	230/460	182T	CWG3V2E2	$1,375	F2	DS-3CTSW	1.15	16.3	110	89.5	7.8/3.9	SGR
5	1800	230/460	184T	CWG5V2E2	$1,420	F2	DS-3CTSW	1.15	16.3	120	89.5	12.7/6.3	SGR
7 1/2	1800	230/460	213T	CWG7V2E2	$1,834	F2	DS-3CTSW	1.15	19.6	170	91.7	19.1/9.6	SGR
10	1800	230/460	215T	CWG10V2E2	$2,111	F2	DS-3CTSW	1.15	19.6	180	91.7	25.7/12.8	SGR
15	1800	230/460	254T	CWG15V2E2	$2,913	F2	DS-3CTSW	1.15	24.9	285	92.4	36/18	SGR
20	1800	230/460	256T	CWG20V2E2	$3,282	F2	DS-3CTSW	1.15	24.9	315	93	47/23.7	SGR
25	1800	230/460	284T	CWG25V2E2	$4,346	F2	DS-3CTSW	1.15	27.5	375	93.6	58/29.2	SGR
30	1800	230/460	286T	CWG30V2E2	$4,568	F2	DS-3CTSW	1.15	27.5	385	93.6	70/35	SGR
40	1800	230/460	324T	CWG40V2E2	$5,685	F2	DS-3CTSW	1.15	30.1	515	94.1	92/46	SGR
50	1800	230/460	326T	CWG50V2E2	$6,571	F2	DS-3CTSW	1.15	30.1	615	94.5	112/56	SGR
60	1800	230/460	364T	CWG60V2E2	$8,717	F2	DS-3CTSW	1.15	32.3	715	95	137/68	SGR

Totally Enclosed Air Over (TEAO)

HP	RPM	Volts	Frame	New Stock Cat#	List Price	Assembly Position	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
5	1800	230/460	184T	CVWG5V2B6	$1,579	W6	DS-3CTSW	1.15	13.6	110	89.5	12.7/6.3	SGR
7 1/2	1800	230/460	213T	CVWG7V2B6	$2,016	W6	DS-3CTSW	1.15	17.1	170	91.7	19.2/9.6	SGR
10	1800	230/460	215T	CVWG10V2B6	$2,301	W6	DS-3CTSW	1.15	17.1	180	91.7	25.7/12.8	SGR
15	1800	230/460	254T	CVWG15V2B6	$3,164	W6	DS-3CTSW	1.15	22.3	275	92.4	36/18	SGR
20	1800	230/460	256T	CVWG20V2B6	$3,545	W6	DS-3CTSW	1.15	22.3	305	93	47/23.7	SGR
25	1800	230/460	284T	CVWG25V2B6	$4,687	W6	DS-3CTSW	1.15	24.8	365	93.6	58/29.2	SGR
30	1800	230/460	286T	CVWG30V2B6	$4,916	W6	DS-3CTSW	1.15	24.8	395	93.6	69/34	SGR
40	1800	230/460	324T	CVWG40V2B6	$6,125	W6	DS-3CTSW	1.15	27.5	505	94.1	92/46	SGR
50	1800	230/460	326T	CVWG50V2B6	$7,039	W6	DS-3CTSW	1.15	27.5	615	94.5	112/56	SGR
60	1800	230/460	364T	CVWG60V2B6	$9,275	W6	DS-3CTSW	1.15	29.6	705	95	137/68	SGR
75	1800	230/460	365T	CVWG75V2B6	$10,647	W6	DS-3CTSW	1.15	29.6	765	95	170/85	SGR

Note SGR Shaft Grounding Ring

Stock World Motor Cooling Tower Duty Three Phase, TEAO & TEFC Premium Efficient, Inverter Duty 10:1 (6-60 Hz) Speed Range Variable Torque

APPLICATIONS:

For use in Cooling Tower, Evaporative Condenser and other commercial and industrial applications requiring protection from harsh operating conditions with high humidity.

FEATURES:

- INVERTER GRADE® Motors with Insulation that Exceeds the NEMA®† MG-1 Part 31 Standard
- Double Dip & Bake, 100% Solids, Polyester Insulation on Windings
- Class F Insulation, 40°C Ambient
- Cast Iron Frame & Outlet Box
- Cast Iron Bearing Caps
- Double Sealed bearings
- Double Drilled Feet to Accommodate Mounting Flexibility
- Sealed Bracket-to-Frame Registers & Leads
- Stainless Steel Nameplate & Zinc Plated Hardware
- 1.15 Service Factor
- Rotor Balance better than 0.08 in/sec Inverter Compatible: Exceeds NEMA®† MG-1 Part 31 (10:1 Variable Torque)
- NEMA®† Design B Performance on 60 Hertz Sine Wave Power
- Meets IEC 34-5 Classification IP55
- Space Heater (115v)
- Includes CORRO-DUTY® Motor Paint and Rotor Treatment
- Refer to Page vii for Suitability of IHP Motors on Variable Frequency Drives
- Refer to Page 57 for Minimum Air Velocity Requirements

ORDERING INFORMATION:

Options below available from Southaven Distribution Center ONLY

Option List Prices: Add motor & required options list prices, then use applicable multiplier to calculate net price.

Options	Frame Size								
	140	180	210	250	280	320	360	400	440
Thermistor	$725	$725	$725	$725	$725	$725	$725	$725	$725
TEFC W5 or W8 Mounting	$89	$125	$137	$174	$221	$281	$310	$419	$478

Totally Enclosed Air Over (TEAO)

HP	RPM	Volts	Frame	New Stock Cat#	List Price	Assembly Position	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
2	1200	230/460	184T	CVW2V3B6	$1,454	W6	DS-3CTSW	1.15	13.6	130	88.5	6.2/3.1	
3	1800	230/460	182T	CVW3V2B6	$1,206	W6	DS-3CTSW	1.15	13.6	130	89.5	7.7/3.9	
	1200	230/460	213T	CVW3V3B6	$2,138	W6	DS-3CTSW	1.15	17.1	200	90.2	8.6/4.3	
5	1800	200	184T	CVW5V2H6	$1,254	W6	DS-3CTSW	1.15	13.6	130	89.5	14.5	
	1800	230/460	184T	CVW5V2B6	$1,254	W6	DS-3CTSW	1.15	13.6	130	89.5	12.7/6.3	
	1800	230/460	184T	CVW5V2B8	$1,254	W8	DS-3CTSW	1.15	13.6	100	89.5	12.7/6.3	
	1200	230/460	215T	CVW5V3B6	$2,224	W6	DS-3CTSW	1.15	17.1	200	90.2	14.2/7.1	
7 1/2	1800	200	213T	CVW7V2H6	$1,691	W6	DS-3CTSW	1.15	17.1	200	91.7	21.9	
	1800	230/460	213T	CVW7V2B8	$1,691	W8	DS-3CTSW	1.15	17.1	160	91.7	19.2/9.6	
	1800	230/460	213T	CVW7V2B6	$1,691	W6	DS-3CTSW	1.15	17.1	200	91.7	19.2/9.6	
	1200	230/460	254T	CVW7V3B6	$3,049	W6	DS-3CTSW	1.15	22.3	325	91.0	18.8/9.4	
10	1800	200	215T	CVW10V2H6	$1,976	W6	DS-3CTSW	1.15	17.1	200	91.7	29.3	
	1800	230/460	215T	CVW10V2B6	$1,976	W6	DS-3CTSW	1.15	17.1	200	91.7	25.7/12.8	
	1800	230/460	215T	CVW10V2B8	$1,976	W8	DS-3CTSW	1.15	17.1	170	91.7	25.7/12.8	
	1200	230/460	256T	CVW10V3B6	$3,577	W6	DS-3CTSW	1.15	22.3	325	91.7	25.1/12.5	
15	1800	200	254T	CVW15V2H6	$2,814	W6	DS-3CTSW	1.15	22.3	325	92.4	41	
	1800	230/460	254T	CVW15V2B6	$2,814	W6	DS-3CTSW	1.15	22.3	325	92.4	36/18	
	1200	230/460	284T	CVW15V3B6	$5,105	W6	DS-3CTSW	1.15	24.8	380	91.7	36/18.2	
20	1800	200	256T	CVW20V2H6	$3,195	W6	DS-3CTSW	1.15	22.3	325	93.0	54	
	1800	230/460	256T	CVW20V2B6	$3,195	W6	DS-3CTSW	1.15	22.3	325	93.0	47/23.7	
	1200	230/460	286T	CVW20V3B6	$5,809	W6	DS-3CTSW	1.15	24.8	410	91.7	48/24	
25	1800	230/460	284T	CVW25V2B6	$4,322	W6	DS-3CTSW	1.15	24.8	380	93.6	58/29.2	
	1200	230/460	324T	CVW25V3B6	$7,867	W6	DS-3CTSW	1.15	27.5	605	93.0	59/29.3	
30	1800	230/460	286T	CVW30V2B6	$4,551	W6	DS-3CTSW	1.15	24.8	410	93.6	69/34	
	1200	230/460	326T	CVW30V3B6	$8,290	W6	DS-3CTSW	1.15	27.5	605	93.0	70/35	
40	1800	230/460	324T	CVW40V2B6	$5,747	W6	DS-3CTSW	1.15	27.5	605	94.1	92/46	
	1200	230/460	364T	CVW40V3B6	$10,422	W6	DS-3CTSW	1.15	29.6	740	94.1	94/47	
50	1800	230/460	326T	CVW50V2B6	$6,661	W6	DS-3CTSW	1.15	27.5	605	94.5	112/56	
	1200	230/460	365T	CVW50V3B6	$12,111	W6	DS-3CTSW	1.15	29.6	910	94.1	117/59	
60	1800	230/460	364T	CVW60V2B6	$8,855	W6	DS-3CTSW	1.15	29.6	740	95.0	137/68	
	1200	230/460	404T	CVW60V3B6	$16,229	W6	DS-3CTSW	1.15	33.8	960	94.5	140/70	
75	1800	230/460	365T	CVW75V2B6	$10,227	W6	DS-3CTSW	1.15	29.6	910	95.4	170/85	
	1200	230/460	405T	CVW75V3B6	$18,766	W6	DS-3CTSW	1.15	33.8	990	94.5	178/89	
100	1800	230/460	405T	CVW100V2B6	$15,250	W6	DS-3CTSW	1.15	33.8	1000	95.4	229/115	

Stock World Motor Cooling Tower Duty Three Phase, TEAO & TEFC Premium Efficient, Inverter Duty 10:1 (6-60 Hz) Speed Range Variable Torque

(continued)

Totally Enclosed Fan Cooled (TEFC)

* W6 & W7 mounting not available on Totally Enclosed Fan Cooled (TEFC) Motors.

HP	RPM	Volts	Frame	New Stock Cat#	List Price	Assembly Position	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
2	1800	230/460	145T	CW2V2E2	$698	F2	DS-3CTSW	1.15	13.5	80	86.5	5.3/2.7	
	1200	230/460	184T	CW2V3E2	$1,290	F2	DS-3CTSW	1.15	16.3	100	88.5	6.2/3.1	
3	1800	200	182T	CW3V2H2	$1,050	F2	DS-3CTSW	1.15	16.3	100	89.5	8.8	
	1800	230/460	182T	CW3V2E2	$1,050	F2	DS-3CTSW	1.15	16.3	100	89.5	7.8/3.9	
	1800	575	182T	CW3V2G2	$1,050	F2	DS-3CTSW	1.15	16.3	100	89.5	3.1	
	1200	230/460	213T	CW3V3E2	$1,942	F2	DS-3CTSW	1.15	19.6	170	90.2	8.6/4.3	
5	1800	200	184T	CW5V2H2	$1,095	F2	DS-3CTSW	1.15	16.3	110	89.5	14.5	
	1800	230/460	184T	CW5V2E2	$1,095	F2	DS-3CTSW	1.15	16.3	110	89.5	12.7/6.3	
	1800	575	184T	CW5V2G2	$1,095	F2	DS-3CTSW	1.15	16.3	110	89.5	5.1	
	1200	230/460	215T	CW5V3E2	$2,026	F2	DS-3CTSW	1.15	19.6	180	90.2	14.2/7.1	
7 1/2	1800	200	213T	CW7V2H2	$1,509	F2	DS-3CTSW	1.15	19.6	170	91.7	22	
	1800	230/460	213T	CW7V2E2	$1,509	F2	DS-3CTSW	1.15	19.6	170	91.0	19.1/9.6	
	1800	575	213T	CW7V2G2	$1,509	F2	DS-3CTSW	1.15	19.6	170	91.7	7.8	
	1200	230/460	254T	CW7V3E2	$2,791	F2	DS-3CTSW	1.15	24.9	250	91.0	18.8/9.4	
10	1800	200	215T	CW10V2H2	$1,786	F2	DS-3CTSW	1.15	19.6	180	91.7	29.3	
	1800	230/460	215T	CW10V2E2	$1,786	F2	DS-3CTSW	1.15	19.6	180	91.7	25.7/12.8	
	1800	575	215T	CW10V2G2	$1,786	F2	DS-3CTSW	1.15	19.6	180	91.7	10.3	
	1200	230/460	256T	CW10V3E2	$3,304	F2	DS-3CTSW	1.15	24.9	280	91.7	24.9/12.4	
15	1800	200	254T	CW15V2H2	$2,563	F2	DS-3CTSW	1.15	24.9	270	92.4	41	
	1800	230/460	254T	CW15V2E2	$2,563	F2	DS-3CTSW	1.15	24.9	270	92.4	36/18	
	1800	575	254T	CW15V2G2	$2,563	F2	DS-3CTSW	1.15	24.9	270	92.4	14.5	
20	1800	200	256T	CW20V2H2	$2,932	F2	DS-3CTSW	1.15	24.9	300	93.0	55	
	1800	230/460	256T	CW20V2E2	$2,932	F2	DS-3CTSW	1.15	24.9	300	93.0	47/23.7	
	1800	575	256T	CW20V2G2	$2,932	F2	DS-3CTSW	1.15	24.9	300	93.0	18.9	
25	1800	200	284T	CW25V2H2	$3,981	F2	DS-3CTSW	1.15	27.5	385	93.6	67	
	1800	230/460	284T	CW25V2E2	$3,981	F2	DS-3CTSW	1.15	27.5	380	93.6	58/29.2	
	1800	575	284T	CW25V2G2	$3,981	F2	DS-3CTSW	1.15	27.5	380	93.6	23.3	
30	1800	230/460	286T	CW30V2E2	$4,203	F2	DS-3CTSW	1.15	27.5	410	93.6	70/35	
	1800	575	286T	CW30V2G2	$4,203	F2	DS-3CTSW	1.15	27.5	410	93.6	28.1	
40	1800	230/460	324T	CW40V2E2	$5,307	F2	DS-3CTSW	1.15	30.1	600	94.1	92/46	
	1800	575	324T	CW40V2G2	$5,307	F2	DS-3CTSW	1.15	30.1	600	94.1	37	
50	1800	230/460	326T	CW50V2E2	$6,193	F2	DS-3CTSW	1.15	30.1	625	94.5	112/56	
	1800	575	326T	CW50V2G2	$6,193	F2	DS-3CTSW	1.15	30.1	625	94.5	45	
60	1800	230/460	364T	CW60V2E2	$8,297	F2	DS-3CTSW	1.15	32.3	740	95.0	137/68	
	1800	575	364T	CW60V2G2	$8,297	F2	DS-3CTSW	1.15	32.3	910	95.0	55	
75	1800	230/460	365T	CW75V2E2	$9,628	F2	DS-3CTSW	1.15	32.3	910	95.4	170/85	

Minimum Air Velocity Required for TEAO Models

Horsepower	Velocity (FPM) 4 Pole	Velocity (FPM) 6 Pole
2	1000	580
3	1000	600
5	1054	700
7.5	1023	650
10	975	600
15	1500	650
20	1700	850

Horsepower	Velocity (FPM) 4 Pole	Velocity (FPM) 6 Pole
25	1500	950
30	1600	1000
40	1700	1100
50	1800	1150
60	1800	1150
75	2000	1300
100	2000	1300

*Note: Use 1/2 of these velocities for 8 Pole (900 RPM). Use the above velocities for 50 Hz motors (Customer to make adjustments for lower motor speed in order to maintain fan speed).

Hazardous Location Motors

Horsepower: 1/4 through 200 HP, Single and Dual Label

Phase: Single and Three Phase

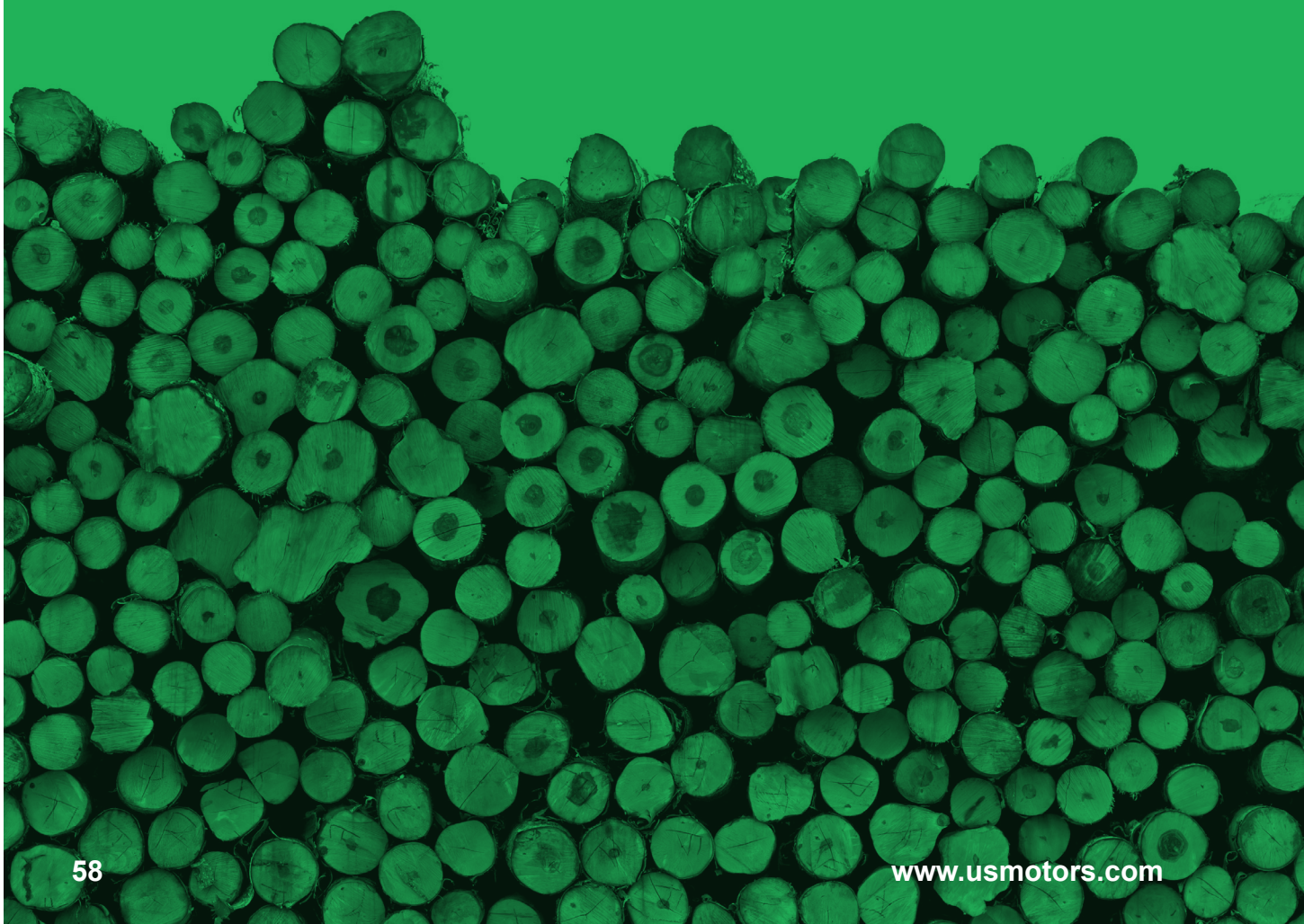
RPM: 1200, 1800 and 3600

Voltage: 115/208 - 230, 115/230, 230/460, 208-230/460 and 460

Efficiency: NEMA®† Premium

Mounting: Footed, Footless C-Face

Agency: UL®† Recognized and CSA®† Certified



General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Div. 1 Hazardous Location NEMA®† Premium Efficient, Dual Label



NEMA Premium

LE, FL

APPLICATIONS:

For pumps, fans, compressors, conveyors and tools located in hazardous locations as defined by Class and Group.

FEATURES:

For all Products Listed in this Section:

- UL®† Listed & CSA®† Certified
- Cast Iron Inner Bearing Caps (180 Frame and Larger)
- 40°C Ambient, NEMA®† Design B Performance
- Regreasable Bearings 180 Frame & Up
- Lifting Provisions, 180 Frame & Up
- Conversion Kits: Cast Iron Fan Cover (180 Frame & Up)
- Sealed Bearings 56-140, Shielded 180 Frame & Up
- Class, Group & Temp Code as Noted Below
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

For Catalog Numbers Beginning with "XS":

- Cast Iron Frame Except Where Noted
- Cast Iron End Brackets & Conduit Box
- Class F Insulation
- 1.00 Service Factor on 60 Hertz Sinewave Power
- Stainless Steel Nameplate & Zinc Plated Hardware
- Shaft Slinger on Pulley End for IP54 Protection

For Catalog Numbers Beginning with "X":

- Cast Iron Frame Except Where Noted
- Cast Iron End Brackets & Conduit Box
- Class F Insulation
- 1.00 Service Factor on 60 Hertz Sinewave Power
- Stainless Steel Nameplate & Zinc Plated Hardware
- Shaft Slinger on Pulley End for IP54 Protection

HP	RPM	Voltage	Frame	Catalog Number	Class I Group	Class II Group	Temp Code	List	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1/2	1800	208-230/460	56	XS12SA2D	CD	EFG	T3C	$505	DS-3CXD	12.4	26	-	2.0-1.9/1.0	13,24,NNP
	1200	208-230/460	56	XS12SA3A	CD	EFG	T3C	$615	DS-3CXD	13.2	32	-	2.2-2.3/1.1	13,24,NNP
3/4	1800	208-230/460	56	XS34SA2A	CD	EFG	T3C	$576	DS-3CXD	13.7	32	-	2.8-2.9/1.4	13,24,NNP
	1200	208-230/460	143T	XS34S3A14	CD	EFG	T3C	$700	DS-3CXD	15.0	32	-	3.1-3.2/1.6	13,NNP
1	1800	230/460	143T	X1P2B	D	FG	T3B	$729	DS-3CXD	12.9	60	85.5	3/1.5	51
	1800	575	143T	X1P2G	D	FG	T3B	$729	DS-3CXD	12.9	60	85.5	1.2	
	1200	230/460	145T	X1P3B	D	FG	T3B	$991	DS-3CXD	12.9	80	82.5	3.8/1.9	
	900	230/460	182T	X1P4B	D	FG	T3B	$1,526	DS-3CXD	15.5	90	75.5	4.8/2.4	
1 1/2	3600	230/460	143T	X32P1B	D	FG	T3B	$840	DS-3CXD	12.9	70	84.0	3.9/1.9	
	1800	208-230/460	145T	XS32P2A14	CD	EFG	T3C	$808	DS-3CXD	15.5	32	86.5	4.7-4.6/2.3	13,24
	1800	230/460	145T	X32P2B	D	FG	T3B	$808	DS-3CXD	12.9	80	86.5	4.3/2.1	
	1800	575	145T	X32P2G	D	FG	T3B	$808	DS-3CXD	12.9	65	86.5	1.7	
	1200	230/460	182T	X32P3B	D	FG	T3B	$1,093	DS-3CXD	15.5	90	87.5	4.6/2.3	
	900	230/460	184T	X32P4B	D	FG	T3B	$1,694	DS-3CXD	15.5	110	78.5	6.1/3	
2	3600	230/460	145T	X2P1B	D	FG	T3B	$998	DS-3CXD	12.9	75	85.5	4.9/2.4	
	1800	208-230/460	56H	XS2PA2AH	CD	EFG	T3C	$886	DS-3CXD	16.7	32	86.5	6.7-6.4/3.2	13,24
	1800	230/460	145T	X2P2B	D	FG	T3B	$886	DS-3CXD	12.9	80	86.5	5.2/2.6	
	1800	575	145T	X2P2G	D	FG	T3B	$886	DS-3CXD	12.9	65	86.5	2.1	
	1200	230/460	184T	X2P3B	D	FG	T3B	$1,216	DS-3CXD	16.0	110	88.5	5.8/2.9	
	900	230/460	213T	X2P4B	D	FG	T3B	$1,880	DS-3CXD	19.1	145	84.0	8.1/4	
3	3600	230/460	182T	X3P1B	D	FG	T3B	$1,116	DS-3CXD	16.0	90	86.5	7.8/3.9	
	1800	230/460	182T	X3P2B	D	FG	T3B	$986	DS-3CXD	16.0	90	89.5	7.7/3.8	
	1800	575	182T	X3P2G	D	FG	T3B	$986	DS-3CXD	16.0	90	89.5	3.1	
	1200	230/460	213T	X3P3B	D	FG	T3B	$1,503	DS-3CXD	19.1	145	89.5	8.8/4.4	
	900	230/460	215T	X3P4B	D	FG	T3B	$2,330	DS-3CXD	19.1	170	85.5	11.9/5.9	
5	3600	230/460	184T	X5P1B	D	FG	T3B	$1,400	DS-3CXD	16.0	110	88.5	12.2/6.1	
	1800	230/460	184T	X5P2B	D	FG	T3B	$1,147	DS-3CXD	16.0	110	89.5	12.5/6.2	
	1800	575	184T	X5P2G	D	FG	T3B	$1,147	DS-3CXD	16.0	110	89.5	5	
	1200	230/460	215T	X5P3B	D	FG	T3B	$2,152	DS-3CXD	19.1	170	89.5	13.9/7	
	900	230/460	254T	X5P4B	CD	FG	T3C	$3,239	DS-3CXD	25.6	300	86.5	18/9	
7 1/2	3600	230/460	213T	X7P1B	D	FG	T3B	$1,730	DS-3CXD	19.1	145	89.5	18.6/9.3	
	1800	230/460	213T	X7P2B	D	FG	T3B	$1,564	DS-3CXD	19.1	145	91.7	18.5/9.3	
	1800	575	213T	X7P2G	D	FG	T3B	$1,564	DS-3CXD	19.1	145	91.7	7.4	
	1200	230/460	254T	X7P3B	CD	FG	T3C	$2,788	DS-3CXD	25.3	300	91.0	18.8/9.4	

Note 13 Steel Frame Construction
Note 24 Automatic Reset Thermal Protector Overload
Note 51 Equipped with Winding Thermostat
Note NNP Non-NEMA®† Premium

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Div. 1 Hazardous Location NEMA®† Premium Efficient, Dual Label

(continued)



NEMA Premium

LE, FL

HP	RPM	Voltage	Frame	Catalog Number	Class I Group	Class II Group	Temp Code	List	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
10	3600	230/460	215T	X10P1B	D	FG	T3B	$2,027	DS-3CXD	19.1	170	90.2	23.6/11.8	
	1800	230/460	215T	X10P2B	D	FG	T3B	$1,889	DS-3CXD	19.1	170	91.7	23.9/12	
	1800	575	215T	X10P2G	D	FG	T3B	$1,889	DS-3CXD	19.1	170	91.7	9.6	
	1200	230/460	256T	X10P3B	CD	FG	T3C	$3,368	DS-3CXD	25.3	320	91.0	24.8/12.4	
15	3600	230/460	254T	X15P1B	CD	FG	T3C	$2,817	DS-3CXD	25.3	320	91.0	35/17.5	
	1800	230/460	254T	X15P2B	CD	FG	T3C	$2,533	DS-3CXD	25.3	316	92.4	37/18.3	
	1800	575	254T	X15P2G	CD	FG	T3C	$2,533	DS-3CXD	25.3	300	92.4	14.6	
	1200	230/460	284T	X15P3B	CD	FG	T3C	$4,617	DS-3CXD	27.0	390	91.7	37/18.2	
20	3600	230/460	256T	X20P1B	CD	FG	T3C	$3,487	DS-3CXD	25.3	375	91.0	46/23	
	1800	230/460	256T	X20P2B	CD	FG	T3C	$3,122	DS-3CXD	25.3	375	93.0	48/23.8	
	1800	575	256T	X20P2G	CD	FG	T3C	$3,122	DS-3CXD	25.3	375	93.0	19	
	1200	230/460	286T	X20P3B	CD	FG	T3C	$5,593	DS-3CXD	27.0	458	91.7	49/24.4	
25	3600	230/460	284TS	X25P1BS	CD	FG	T3C	$4,208	DS-3CXD	25.6	350	91.7	57/28.7	
	1800	230/460	284T	X25P2B	CD	FG	T3C	$3,685	DS-3CXD	27.0	286	93.6	58/28.9	
	1800	575	284T	X25P2G	CD	FG	T3C	$3,685	DS-3CXD	27.0	390	93.6	23	
	1200	230/460	324T	X25P3B	CD	FG	T3C	$6,707	DS-3CXD	30.7	575	93.0	61/31	
30	3600	230/460	286TS	X30P1BS	CD	FG	T3C	$4,934	DS-3CXD	25.6	410	91.7	69/34	
	1800	230/460	286T	X30P2B	CD	FG	T3C	$4,298	DS-3CXD	27.0	433	93.6	69/34	
	1800	575	286T	X30P2G	CD	FG	T3C	$4,298	DS-3CXD	27.0	460	93.6	27.6	
	1200	230/460	326T	X30P3B	CD	FG	T3C	$7,914	DS-3CXD	30.7	685	93.0	74/37	
40	3600	230/460	324TS	X40P1BS	CD	FG	T3C	$6,426	DS-3CXD	29.2	564	92.4	90/45	
	1800	230/460	324T	X40P2B	CD	FG	T3C	$5,656	DS-3CXD	30.7	590	94.1	90/45	
	1800	575	324T	X40P2G	CD	FG	T3C	$5,656	DS-3CXD	30.7	575	94.1	36	
	1200	230/460	364T	X40P3B	CD	FG	T3C	$10,476	DS-3CXD	32.3	725	94.1	92/46	
50	3600	230/460	326TS	X50P1BS	CD	FG	T3C	$8,269	DS-3CXD	29.1	650	93.0	114/57	
	1800	230/460	326T	X50P2B	CD	FG	T3C	$6,944	DS-3CXD	30.7	650	94.5	112/56	
	1800	575	326T	X50P2G	CD	FG	T3C	$6,944	DS-3CXD	30.7	650	94.1	45	
	1200	230/460	365T	X50P3B	CD	FG	T3C	$12,069	DS-3CXD	32.3	950	94.1	115/58	
60	3600	230/460	364TS	X60P1BS	CD	FG	T3C	$10,848	DS-3CXD	30.1	750	93.6	136/68	
	1800	230/460	364T	X60P2B	CD	FG	T3C	$9,924	DS-3CXD	32.3	810	95.0	136/68	
	1800	575	364T	X60P2G	CD	FG	T3C	$9,924	DS-3CXD	32.3	725	95.0	54	
75	3600	230/460	365TS	X75P1BS	CD	FG	T3C	$13,631	DS-3CXD	30.1	850	93.6	166/83	
	1800	230/460	365T	X75P2B	CD	FG	T3C	$12,622	DS-3CXD	32.3	850	95.4	169/84	
	1800	575	365T	X75P2G	CD	FG	T3C	$12,622	DS-3CXD	32.3	875	95.4	67	
100	1800	230/460	405T	X100P2B	CD	FG	T3C	$14,501	DS-3CXD	36.5	1170	95.4	225/113	
	1800	575	405T	X100P2G	CD	FG	T3C	$14,501	DS-3CXD	36.5	1225	95.4	90	
	1200	460	444T	X100P3C	D	FG	T3B	$21,232	DS-3CXD	45.8	1485	95.0	124	
125	1800	460	444T	X125P2C	D	FG	T3B	$17,910	DS-3CXD	45.8	1560	95.4	147	
	1800	575	444T	X125P2G	D	FG	T3B	$17,910	DS-3CXD	45.8	1575	95.4	118	
150	1800	460	445T	X150P2C	D	FG	T3B	$21,257	DS-3CXD	45.8	1625	95.8	171	
	1800	575	445T	X150P2G	D	FG	T3B	$21,257	DS-3CXD	45.8	1800	95.8	137	
200	1800	460	447T	X200P2C	D	FG	T3B	$25,899	DS-3CXD	49.4	2200	96.2	227	
	1800	575	447T	X200P2G	D	FG	T3B	$25,899	DS-3CXD	49.4	2100	95.8	180	

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Div. 1 Hazardous Location NEMA®† Premium Efficient, Single Label, CORRO-DUTY®



NEMA Premium

FLC, LCE

APPLICATIONS:

For pumps, fans, compressors, conveyors and tools located in hazardous locations as defined by Class and Group.

FEATURES:

- UL®† Listed & CSA®† Certified
- All Cast Iron Construction (140 Frame Has Steel Base)
- Corrosion Resistant Mill & Chemical Duty Paint
- Stainless Steel Nameplate & Zinc Plated Hardware
- Shaft Slinger On Pulley End For IP54 Protection
- Cast Iron Inner Bearing Caps (180 Frame & Larger)
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Regreasable Bearings 180 Frame & Up, Lifting Provisions 180 Frame & Up
- Sealed Bearings 56-140, Shielded 180-360, Open 400-440 Frames
- Class F Insulation, Listed For Ambients -25°C To +40°C
- Brass Breather Plug
- Suitable For Inverter Use Per Policy Statement In Introduction, 2:1 CT
- Class I (Group D), T2B Temperature Code
- 1.15 Service Factor On 60 Hertz Sinewave Power

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1/2	1800	230/460	56	Y12S2B	$658	DS-3F	1.00	11.6	47	77.0	1.8-1.7/0.9	13,NNP
3/4	1800	230/460	56	Y34S2B	$694	DS-3F	1.00	11.6	49	78.5	2.7/1.3	13,NNP
1	1800	230/460	143T	YC1P2B	$872	DS-3CX	1.15	13.1	80	85.5	3/1.5	
	1200	230/460	145T	YC1P3B	$1,022	DS-3CX	1.15	13.1	80	82.5	3.8/1.9	
	900	230/460	182T	YC1P4B	$1,741	DS-3CX	1.15	16.1	90	75.5	4.8/2.4	
1 1/2	3600	230/460	143T	YC32P1B	$913	DS-3CX	1.15	13.1	70	84.0	3.9/1.9	
	1800	230/460	145T	YC32P2B	$917	DS-3CX	1.15	13.1	80	86.5	4.3/2.1	
	1200	230/460	182T	YC32P3B	$1,106	DS-3CX	1.15	16.1	90	87.5	4.6/2.3	
	900	230/460	184T	YC32P4B	$2,429	DS-3CX	1.15	16.1	110	78.5	6.1/3	
2	3600	230/460	145T	YC2P1B	$1,017	DS-3CX	1.15	13.1	75	86.5	4.9/2.4	
	1800	230/460	145T	YC2P2B	$980	DS-3CX	1.15	13.1	80	86.5	5.2/2.6	
	1200	230/460	184T	YC2P3B	$1,281	DS-3CX	1.15	16.1	110	88.5	5.8/2.9	
	900	230/460	213T	YC2P4B	$2,599	DS-3CX	1.15	20.0	145	84.0	8.1/4	
3	3600	230/460	182T	YC3P1B	$1,147	DS-3CX	1.15	16.1	90	86.5	7.8/3.9	
	1800	230/460	182T	YC3P2B	$1,149	DS-3CX	1.15	16.1	90	89.5	7.7/3.8	
	1200	230/460	213T	YC3P3B	$1,643	DS-3CX	1.15	20.0	145	89.5	8.8/4.4	
	900	230/460	215T	YC3P4B	$3,227	DS-3CX	1.15	20.0	170	85.5	11.9/5.9	
5	3600	230/460	184T	YC5P1B	$1,445	DS-3CX	1.15	16.1	110	88.5	12.2/6.1	
	1800	230/460	184T	YC5P2B	$1,279	DS-3CX	1.15	16.1	110	89.5	12.5/6.2	
	1200	230/460	215T	YC5P3B	$2,184	DS-3CX	1.15	20.0	170	89.5	13.9/7	
	900	230/460	254T	YC5P4B	$4,411	DS-3CX	1.15	25.0	300	86.5	18/9	
7 1/2	3600	230/460	213T	YC7P1B	$1,683	DS-3CX	1.15	20.0	145	89.5	18.6/9.3	
	1800	230/460	213T	YC7P2B	$1,757	DS-3CX	1.15	20.0	145	91.7	18.6/9.3	
	1200	230/460	254T	YC7P3B	$2,919	DS-3CX	1.15	25.0	300	91.0	18.8/9.4	
	900	230/460	256T	YC7P4B	$5,437	DS-3CX	1.15	25.0	375	86.5	23.3/11.7	
10	3600	230/460	215T	YC10P1B	$2,129	DS-3CX	1.15	20.0	170	90.2	23.6/11.8	
	1800	230/460	215T	YC10P2B	$2,084	DS-3CX	1.15	20.0	170	91.0	24.1/12	
	1200	230/460	256T	YC10P3B	$3,804	DS-3CX	1.15	25.0	375	91.0	24.8/12.4	
	900	230/460	284T	YC10P4B	$6,630	DS-3CX	1.15	27.4	390	89.5	28/14	
15	3600	230/460	254T	YC15P1B	$2,851	DS-3CX	1.15	25.0	300	91.0	35/17.5	
	1800	230/460	254T	YC15P2B	$2,735	DS-3CX	1.15	25.0	300	92.4	37/18.3	
	1200	230/460	284T	YC15P3B	$4,714	DS-3CX	1.15	27.4	390	91.7	37/18.2	
20	3600	230/460	256T	YC20P1B	$3,656	DS-3CX	1.15	25.0	375	91.0	46/23.1	
	1800	230/460	256T	YC20P2B	$3,323	DS-3CX	1.15	25.0	375	93.0	47/23.5	
	1200	230/460	286T	YC20P3B	$5,563	DS-3CX	1.15	27.4	460	91.7	49/24.4	
	900	230/460	324T	YC20P4B	$9,870	DS-3CX	1.15	30.7	575	90.2	53/26.5	

Note 13 Steel Frame Construction
Note NNP Non-NEMA®† Premium

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Div. 1 Hazardous Location NEMA®† Premium Efficient, Single Label, CORRO-DUTY®

(continued)



NEMA Premium

FLC, LCE

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
25	3600	230/460	284TS	YC25P1BS	$4,457	DS-3CX	1.15	26.0	390	91.7	57/28.7	
	1800	230/460	284T	YC25P2B	$3,981	DS-3CX	1.15	27.4	390	93.6	58/28.9	
	1200	230/460	324T	YC25P3B	$6,956	DS-3CX	1.00	30.7	575	93.0	61/31	
	900	230/460	326T	YC25P4B	$11,453	DS-3CX	1.15	30.7	650	90.2	66/33	
30	3600	230/460	286TS	YC30P1BS	$4,835	DS-3CX	1.15	26.0	460	91.7	69/34	
	1800	230/460	286T	YC30P2B	$4,671	DS-3CX	1.15	27.4	460	93.6	69/34	
	1200	230/460	326T	YC30P3B	$8,236	DS-3CX	1.00	30.7	685	93.0	74/37	
40	3600	230/460	324TS	YC40P1BS	$6,466	DS-3CX	1.15	29.2	550	92.4	90/45	
	1800	230/460	324T	YC40P2B	$6,176	DS-3CX	1.15	30.7	590	94.1	90/45	
	1200	230/460	364T	YC40P3B	$10,863	DS-3CX	1.15	33.1	725	94.1	92/46	
50	3600	230/460	326TS	YC50P1BS	$8,520	DS-3CX	1.15	29.2	650	93.0	114/57	
	1800	230/460	326T	YC50P2B	$7,639	DS-3CX	1.00	30.7	650	94.5	112/56	
	1200	230/460	365T	YC50P3B	$12,414	DS-3CX	1.15	33.1	950	94.1	115/58	
60	3600	230/460	364TS	YC60P1BS	$12,381	DS-3CX	1.15	30.9	750	93.6	136/68	
	1800	230/460	364T	YC60P2B	$11,342	DS-3CX	1.15	33.1	810	95.0	136/68	
	1200	230/460	404T	YC60P3B	$14,143	DS-3CX	1.00	38.0	1100	94.5	139/70	
75	3600	230/460	365TS	YC75P1BS	$14,435	DS-3CX	1.15	30.9	850	93.6	166/83	
	1800	230/460	365T	YC75P2B	$14,076	DS-3CX	1.00	33.1	850	95.4	169/84	
	1200	230/460	405T	YC75P3B	$17,169	DS-3CX	1.00	38.0	1225	94.5	174/87	
100	1800	230/460	405T	YC100P2B	$17,179	DS-3CX	1.15	38.0	1244	95.4	225/113	

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Div. 1 Hazardous Location Dual & Single Label, C-Face



EF, LF

APPLICATIONS:

For pumps, fans, compressors, conveyors and tools located in hazardous locations as defined by Class and Group.

FEATURES:

For all Products Listed in this Section:

- UL®† Listed & CSA®† Certified
- Cast Iron Inner Bearing Caps (180 Frame and Larger)
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Regreasable Bearings 180 Frame & Up
- Lifting Provisions, 180 Frame & Up
- Conversion Kits: Cast Iron Fan Cover (180 Frame & Up)
- Sealed Bearings 56-140, Shielded 180 Frame & Up
- Class, Group & Temp Code as Noted Below
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

For Catalog Numbers Beginning with "X" or "Y":

- Cast Iron Frame Except Where Noted
- Cast Iron End Brackets & Conduit Box
- Class F Insulation
- 1.00 Service Factor on 60 Hertz Sine Wave Power
- Stainless Steel Nameplate & Zinc Plated Hardware
- Shaft Slinger on Pulley End for IP54 Protection
- Inverter Suitable: 2:1 Constant Torque, 10:1 Variable Torque

For Catalog Numbers Beginning with "XS":

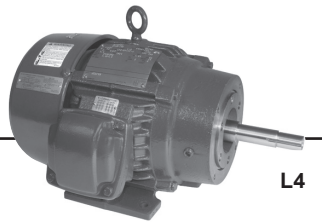
- Aluminum End Brackets & Conduit Box
- Class B Insulation
- Steel Frame

Footless

HP	RPM	Voltage	Frame	Catalog Number	Class I Group	Class II Group	Temp Code	List	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1/3	1800	208-230/460 & 190/380	56C	XS13SA2DCR	CD	EFG	T3C	$490	DS-3CXD	13.3	29	75.1	1.4-1.3/ 0.65&1.4/ 0.7	13,24
	1800	230/460	56C	Y13S2BCR	D	-	T2B	$638	DS-3F	11.6	49	74.0	1.5/0.7	
1/2	1800	208-230/460	56C	XS12SA2DCR	CD	EFG	T3C	$530	DS-3CXD	13.3	30	79.7	2.0-1.9/1.0	
	1800	230/460	56C	Y12S2BCR	D	-	T2B	$672	DS-3F	11.6	48	77.0	1.7/0.9	
3/4	3600	208-230/460	56C	XS34S1ACR	CD	EFG	T3C	$630	DS-3CXD	13.3	32	84.6	2.7-2.6/1.3	
	1800	208-230/460	56C	XS34SA2ACR	CD	EFG	T3C	$601	DS-3CXD	14.3	32	84.5	2.8-2.9/1.4	13,24
	1800	230/460	56C	Y34S2BCR	D	-	T2B	$708	DS-3F	11.6	55	78.5	2.7/1.3	
1	1800	208-230/460	143TC	XS1P2ACR	CD	EFG	T3C	$760	DS-3CXD	15.3	42	85.5	3.3-3.3/1.6	
	1800	208-230/460	56C	XS1PA2ACR	CD	EFG	T3C	$800	DS-3CXD	14.8	40	85.5	3.2-3.1/1.5	13,24
	1800	230/460	143TC	X1P2BCR	D	FG	T3B	$779	DS-3CXD	13.3	60	85.5	3/1.5	
1 1/2	1800	208-230/460	143TC	XS32P2ACR	CD	EFG	T3C	$838	DS-3CXD	15.8	50	86.5	4.9-4.8/2.4	
	1800	230/460	145TC	X32P2BCR	D	FG	T3B	$852	DS-3CXD	13.3	75	86.5	4.3/2.1	
2	1800	208-230/460	145TC	XS2P2ACR	CD	EFG	T3C	$910	DS-3CXD	15.8	45	86.5	6.2-6.0/3.0	
	1800	230/460	145TC	X2P2BCR	D	FG	T3B	$925	DS-3CXD	13.3	75	86.5	5.2/2.6	
3	1800	230/460	182TC	X3P2BCR	D	FG	T3B	$1,066	DS-3CXD	16.3	105	89.5	7.7/3.8	
5	1800	230/460	184TC	X5P2BCR	D	FG	T3B	$1,216	DS-3CXD	16.3	118	89.5	12.5/6.2	
7 1/2	1800	230/460	213TC	X7P2BCR	D	FG	T3B	$1,604	DS-3CXD	20.0	160	91.7	18.6/9.3	
10	1800	230/460	215TC	X10P2BCR	D	FG	T3B	$1,906	DS-3CXD	20.0	190	91.7	23.9/12	
15	1800	230/460	254TC	X15P2BCR	D	FG	T3B	$2,557	DS-3CXD	25.6	316	92.4	37/18.3	

Note 13 Steel Frame Construction
Note 24 Automatic Reset Thermal Protector Overload

Special Application Close Coupled Pump Three Phase Div. 1 Hazardous Duty, Dual Label



L4

APPLICATIONS:

For the specific requirements of centrifugal pumps located in hazardous locations as defined by Class and Group.

FEATURES:

- UL®† Listed & CSA®† Certified
- Cast Iron Frame, End Brackets & Conduit Box
- Stainless Steel Nameplate & Zinc Plated Hardware
- Cast Iron Inner Bearing Caps
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Class I Group D, Class II Group F&G, T3B
- Regreasable Bearings, Lifting Provisions
- Double Shielded Bearings
- 1.0 Service Factor at 60 Hertz
- Class F Insulation
- "JM" Shaft for Mechanical Seal
- Conversion Kits: Cast Iron Fan Cover

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
3	3600	230/460	182JM	XJ3P1BM	$1,255	DS-3PT	1.00	18.4	90	86.5	7.8/3.9	
	1800	230/460	182JM	XJ3P2BM	$1,122	DS-3PT	1.00	18.4	90	89.5	7.7/3.8	
5	3600	230/460	184JM	XJ5P1BM	$1,546	DS-3PT	1.00	18.4	110	88.5	12.2/6.1	
	1800	230/460	184JM	XJ5P2BM	$1,285	DS-3PT	1.00	18.4	110	89.5	12.5/6.2	
7 1/2	3600	230/460	213JM	XJ7P1BM	$1,912	DS-3PT	1.00	21.0	145	89.5	18.6/9.3	
10	3600	230/460	215JM	XJ10P1BM	$2,215	DS-3PT	1.00	21.0	170	90.2	23.6/11.8	

General Purpose Single Phase, Div.1 Hazardous Location Class I (Group C&D), Class II (Group E, F, & G)



APPLICATIONS:

For use on air compressors, pumps, conveyors, blowers and general industrial equipment located in hazardous areas.

FEATURES:

- UL®† Listed & CSA®† Certified
- Temperature Code T3C
- Class B Insulation
- Continuous Duty
- Totally Enclosed Fan Cooled Except Where Noted
- 40°C Ambient Rated
- F1 Assembly
- Automatic Reset Thermal Protector Overload
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

C-Face Footless

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/4	1800	115/208-230&110/220	56C	XS14CA2JCR	$482	DS-3FMP	1.00	11.9	32	5.1/2.5-2.5 & 5.6/2.8	28
1/3	3600	115/208-230	56C	XS13CA1JCR	$614	DS-3FMP	1.00	13.3	29	8.0 / 3.6 - 4.0	
	1800	115/208-230	56C	XS13CA2JCR	$537	DS-3FMP	1.00	12.8	32	6.8/3.3-3.4	
1/2	3600	115/208-230	56C	XS12CA1JCR	$681	DS-3FMP	1.00	13.3	29	8.8/4.1-4.4	
	1800	115/208-230	56C	XS12CA2JCR	$563	DS-3FMP	1.00	13.8	32	9.8/4.9-4.9	
3/4	3600	115/208-230	56C	XS34CA1JCR	$728	DS-3FMP	1.00	13.3	32	10.4 / 5.3-5.2	
	1800	115/208-230	56C	XS34CA2JCR	$630	DS-3FMP	1.00	14.3	32	12.6/6.3-6.3	
1	3600	115/208-230	56C	XS1CA1JCR	$784	DS-3FMP	1.00	14.3	42	12.0/6.3-6.0	
	1800	115/208-230	56C	XS1CA2JCR	$675	DS-3FMP	1.00	14.8	44	14.0/6.9-7.0	

Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/4	1800	115/208-230&110/220	56	XS14CA2J	$482	DS-3FMP	1.00	12.5	32	5.1/2.5-2.5&5.6/2.8	28
	1200	115/230	56	XS14CA3P	$706	DS-3FMP	1.00	13.0	32	6.8/3.4	
1/3	3600	115/208-230	56	XS13CA1J	$560	DS-3FMP	1.00	13.2	29	8.0/3.6-4.0	
	1800	115/208-230	56	XS13CA2J	$512	DS-3FMP	1.00	12.7	32	6.8/3.3-3.4	
	1200	115/230	56	XS13CA3P	$912	DS-3FMP	1.00	12.7	32	7.2/3.6	
1/2	3600	115/208-230	56	XS12CA1J	$608	DS-3FMP	1.00	13.2	29	8.8/4.1-4.4	
	1800	115/208-230	56	XS12CA2J	$563	DS-3FMP	1.00	13.2	32	9.8/4.9-4.9	
	1200	115/230	56H	XS12CA3P	$1,053	DS-3FMP	1.00	14.2	32	10.0/5.0	
3/4	3600	115/208-230	56	XS34CA1J	$608	DS-3FMP	1.00	13.2	32	10.4/5.3-5.2	
	1800	115/208-230	56	XS34CA2J	$630	DS-3FMP	1.00	13.7	32	12.6/6.3-6.3	
1	3600	115/208-230	56	XS1CA1J	$686	DS-3FMP	1.00	14.2	41	12.0/6.3-6.0	
	1800	115/208-230	56H	XS1CA2JH	$714	DS-3FMP	1.00	14.2	32	14.0/6.9-7.0	

Note 28 TENV Enclosure

C-Face Motors

Horsepower: 1/4 – 60 HP

Phase: Single and Three Phase

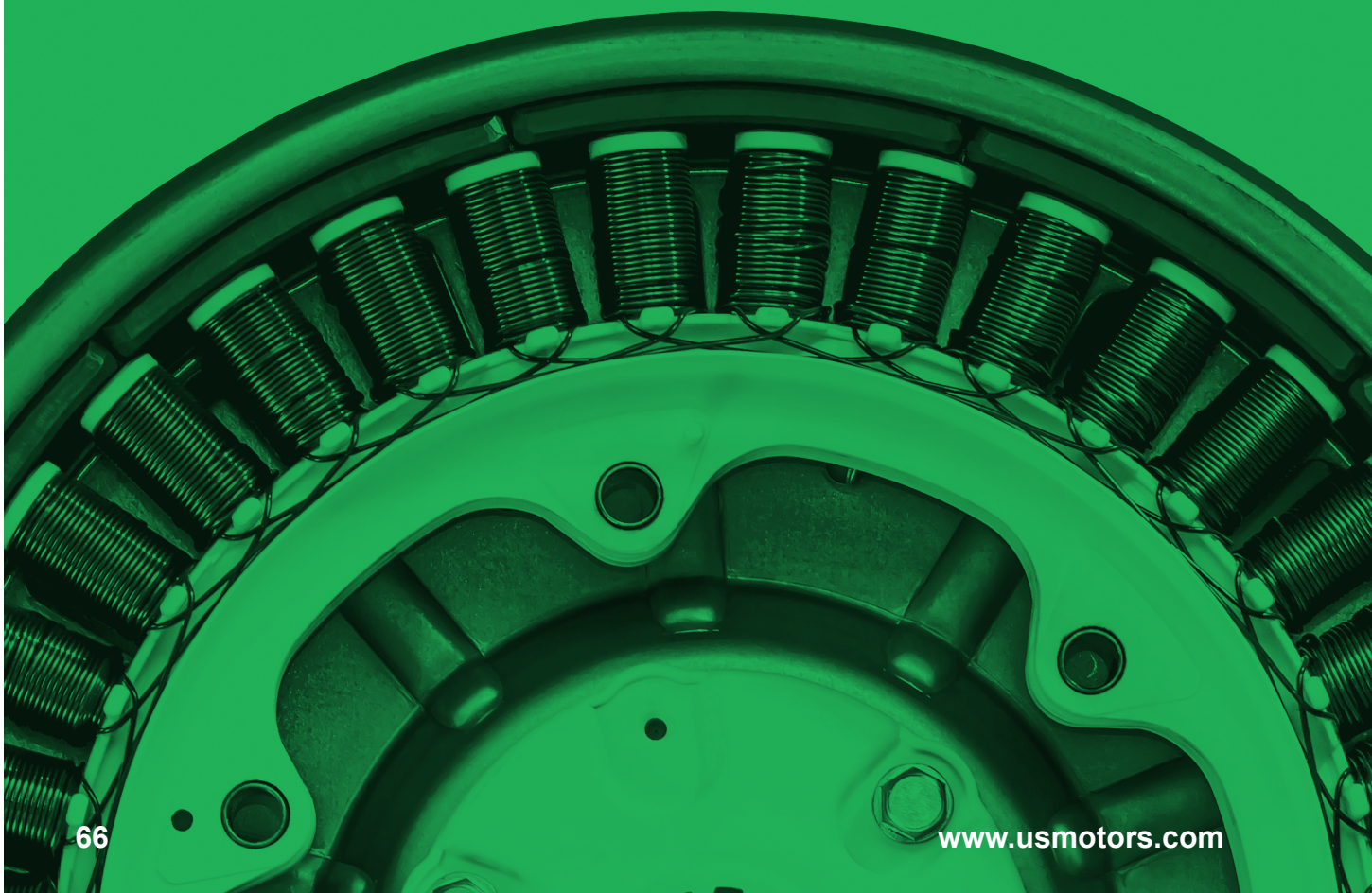
RPM: 1200, 1800, 3600 RPM

Voltage:
- 115
- 115/230
- 115/208-230
- 208-230/460
- 230/460
- 200
- 575

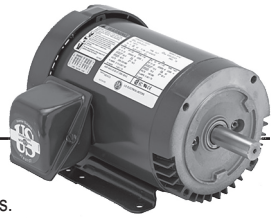
Mounting:
- Footed
- Footless

Efficiency:
- Standard
- NEMA®† Premium Efficient

Types:
- Split Phase ODP
- Capacitor Start ODP
- Capacitor Start TEFC
- Single and Three Phase Hazardous Location
- ODP NEMA®† Premium
- UNIMOUNT® TEFC NEMA®† Premium Efficient
- Totally Enclosed, Fan Cooled (TEFC)
- 841 PLUS® Premium Efficient TEFC



General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC), C-Face Footed



APPLICATIONS:

For use on pumps, fans, compressors, material handling, and other general purpose applications in damp, dusty or dirty environments.

FEATURES:

UNIMOUNT® NEMA®† Premium Efficient (Discount Symbol DS-3AL)

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- Shaft Slinger On Pulley End
- Full 50 & 60 Hertz Operating Data On Nameplate (03)
- Full HP @ 50 Hertz
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- Suitable For Wye-Delta Start 250 Frame & Larger
- Conversion Kits: C&D Flanges, Drip Cover and Brakes
  Refer to Page vii for Suitability of IHP Motors on Variable Frequency Drives
- 208v will not be marked on DOE regulated spread-voltage motors.
  Refer to online data

STEEL EDGE® (Discount Symbol DS-3RST)

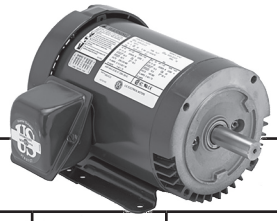
- Rolled Steel Frame
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- Shaft Slinger On Pulley End
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- 208v will not be marked on DOE regulated spread-voltage motors.
  Refer to online data

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1/4	1800	208-230/460	56C	U14S2AC	$246	DS-3RST	1.25	10.8	20	70.0	1.3-1.4/0.7	
	1800	575	56C	U14P2GC	$319	DS-3RST	1.25	10.8	30	74.0	0.4	
	1200	208-230/460	56C	U14S3AC	$323	DS-3RST	1.25	10.8	22	72.0	1.1-1.2/0.6	
	1200	575	56C	U14P3GC	$407	DS-3RST	1.25	10.8	30	72.0	0.6	
1/3	1800	208-230/460	56C	U13S2AC	$281	DS-3RST	1.25	10.8	22	72.0	1.4-1.5/0.7	
	1800	575	56C	U13P2GC	$365	DS-3RST	1.25	10.8	30	74.0	0.5	
	1200	208-230/460	56C	U13S3AC	$361	DS-3RST	1.25	10.8	23	75.5	1.3-1.3/0.6	
	1200	575	56C	U13P3GC	$455	DS-3RST	1.25	10.8	30	72.0	0.7	
1/2	3600	208-230/460	56C	U12S1AC	$306	DS-3RST	1.25	10.8	25	70.0	1.7-1.6/0.8	
	3600	575	56C	U12P1GC	$386	DS-3RST	1.25	12.1	30	74.0	0.6	
	1800	208-230/460	56C	U12S2AC	$306	DS-3RST	1.25	10.8	26	74.0	1.8-1.8/0.9	
	1800	575	56C	U12P2GC	$397	DS-3RST	1.25	10.8	30	78.5	0.8	
	1200	208-230/460	56C	U12S3AC	$393	DS-3RST	1.25	11.5	26	72.0	2.2-2.2/1.1	103
	1200	575	56C	U12P3GC	$495	DS-3RST	1.25	12.1	30	75.5	0.8	
3/4	3600	208-230/460	56C	U34S1AC	$319	DS-3RST	1.25	10.8	26	75.5	2.4-2.2/1.1	
	3600	575	56C	U34P1GC	$402	DS-3RST	1.25	12.1	30	77.0	0.8	
	1800	208-230/460	56C	U34S2AC	$329	DS-3RST	1.25	10.8	32	77.0	2.7-2.7/1.4	
	1800	575	56C	U34P2GC	$427	DS-3RST	1.25	10.8	30	81.5	1	
	1200	208-230/460	56C	U34S3AC	$464	DS-3RST	1.25	12.9	34	80.4	3.1-3.2/1.6	103
	1200	208-230/460	143TC	U34S3DC	$464	DS-3RST	1.25	12.1	30	72.0	3-3.1/1.6	
	1200	575	56C	U34P3GC	$585	DS-3RST	1.25	12.1	30	82.5	1.2	
	1200	575	143TC	U34P3G14C	$585	DS-3RST	1.25	12.1	30	82.5	1.2	
1	3600	208-230/460	56C	U1P1DC	$503	DS-3RST	1.25	13.1	30	81.5	2.9-2.7/1.4	03
	3600	575	56C	U1P1GC	$503	DS-3RST	1.25	13.1	50	81.5	1.1	
	1800	208-230/460	56C	U1P2DFC	$440	DS-3RST	1.25	13.1	30	85.5	3.1-3/1.5	03
	1800	208-230/460	143TC	U1P2DC	$503	DS-3RST	1.25	13.1	30	85.5	3.1-3/1.5	03
	1800	575	56C	U1P2GFC	$440	DS-3RST	1.25	13.1	30	85.5	1.1	03
	1800	575	143TC	U1P2GC	$503	DS-3RST	1.25	13.1	30	85.5	1.1	
	1200	208-230/460	56C	U1P3DFC	$655	DS-3RST	1.25	13.1	30	82.5	3.6-3.5/1.8	03
	1200	208-230/460	145TC	U1P3DC	$655	DS-3RST	1.25	13.1	35	82.5	3.6-3.5/1.8	03
	1200	575	56C	U1P3GFC	$655	DS-3RST	1.25	13.1	30	82.5	1.4	
	1200	575	145TC	U1P3GC	$655	DS-3RST	1.25	13.1	35	82.5	1.4	
1 1/2	3600	208-230/460	56C	U32P1DFC	$500	DS-3RST	1.25	13.1	30	84.0	4.2-3.9/1.9	03

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate.

Note 103 Does not accept brake kit.

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC), C-Face Footed



(continued)

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1 1/2	3600	208-230/460	143TC	U32P1DC	$567	DS-3RST	1.25	13.1	30	84.0	4.2-3.9/1.9	03
	3600	575	56C	U32P1GFC	$567	DS-3RST	1.25	13.1	30	84.0	1.6	
	3600	575	143TC	U32P1GC	$567	DS-3RST	1.25	13.1	30	84.0	1.6	
	1800	200	145TC	U32P2HC	$549	DS-3RST	1.25	13.1	35	86.5	4.7	
	1800	208-230/460	56C	U32P2DFC	$442	DS-3RST	1.25	13.1	30	86.5	4.5-4.3/2.1	03
	1800	208-230/460	145TC	U32P2DC	$549	DS-3RST	1.15	13.1	35	86.5	4.5-4.3/2.1	03
	1800	575	56C	U32P2GFC	$442	DS-3RST	1.25	13.1	30	86.5	1.7	03
	1800	575	145TC	U32P2GC	$549	DS-3RST	1.25	13.1	35	86.5	1.7	
	1200	208-230/460	182TC	U32P3DC	$845	DS-3AL	1.25	16.2	60	87.5	4.8-4.7/2.3	03
	1200	575	182TC	U32P3GC	$845	DS-3AL	1.25	16.2	60	87.5	1.8	
2	3600	208-230/460	56C	U2P1DFC	$491	DS-3RST	1.25	13.1	30	86.5	5.4-4.9/2.5	03
	3600	208-230/460	145TC	U2P1DC	$604	DS-3RST	1.25	13.1	35	86.5	5.4-4.9/2.5	03
	3600	575	56C	U2P1GFC	$496	DS-3RST	1.25	13.1	30	86.5	2	
	3600	575	145TC	U2P1GC	$604	DS-3RST	1.25	13.1	35	86.5	2	
	1800	208-230/460	56C	U2P2DFC	$484	DS-3RST	1.25	13.1	30	86.5	5.9-5.7/2.8	03
	1800	208-230/460	145TC	U2P2DC	$593	DS-3RST	1.15	13.1	35	86.5	5.9-5.7/2.9	03
	1800	575	56C	U2P2GFC	$484	DS-3RST	1.25	13.9	50	85.5	2.5	04,16
	1800	575	145TC	U2P2GC	$593	DS-3RST	1.25	13.1	35	86.5	2.3	
	1200	208-230/460	184TC	U2P3DC	$930	DS-3AL	1.25	16.9	70	88.5	6.4-6.2/3.1	03
	1200	575	184TC	U2P3GC	$930	DS-3AL	1.25	16.2	70	88.5	2.5	
3	3600	208-230/460	56C	U3P1DFC	$568	DS-3RST	1.25	13.1	30	86.5	8.1-7.2/3.6	03
	3600	208-230/460	145TC	U3P1AFC	$600	DS-3RST	1.25	13.1	35	86.5	8.1-7.2/3.6	03,14
	3600	208-230/460	182TC	U3P1DC	$860	DS-3AL	1.25	16.2	50	87.5	8.4-7.8/3.9	03
	3600	208-230/460	182TCH	U3P1DK	$860	DS-3AL	1.25	16.2	50	87.5	8.4-7.8/3.9	03
	3600	575	56C	U3P1GFC	$568	DS-3RST	1.25	13.1	30	86.5	2.8	
	3600	575	145TC	U3P1G14C	$600	DS-3RST	1.25	13.1	35	86.5	2.8	
	3600	575	182TC	U3P1GC	$860	DS-3AL	1.25	16.2	60	87.5	3.1	
	1800	208-230/460	182TC	S3P2AC	$637	DS-3RST	1.15	15.9	85	89.5	8.4-7.8/3.9	04,16
	1800	208-230/460	182TC	U3P2DC	$772	DS-3AL	1.25	16.2	70	89.5	8.4-7.8/3.9	03
	1800	208-230/460	182TCH	U3P2DK	$772	DS-3AL	1.25	16.2	60	89.5	8.4-7.8/3.9	03
	1800	575	182TC	S3P2GC	$637	DS-3RST	1.15	15.9	60	89.5	3.2	04
	1800	575	182TC	U3P2GC	$772	DS-3AL	1.25	16.2	60	89.5	3.2	
	1200	208-230/460	213TC	U3P3DC	$1,150	DS-3AL	1.15	18.8	110	89.5	9.3-8.6/4.3	03
5	3600	208-230/460	184TC	S5P1AC	$752	DS-3RST	1.15	15.9	65	88.5	13.6-12.1/6.1	04,16
	3600	208-230/460	184TC	U5P1DC	$1,056	DS-3AL	1.15	16.2	75	88.5	13.4-12.2/6.1	03
	3600	208-230/460	184TCH	U5P1DK	$1,056	DS-3AL	1.15	16.2	75	88.5	13.4-12.2/6.1	03
	3600	575	184TC	S5P1GC	$752	DS-3RST	1.15	15.9	70	88.5	4.9	04
	3600	575	184TC	U5P1GC	$1,056	DS-3AL	1.25	16.2	70	88.5	4.9	
	1800	200	184TCH	U5P2HK	$882	DS-3AL	1.25	16.9	80	89.5	14.2	
	1800	208-230/460	184TC	S5P2AC	$752	DS-3RST	1.15	15.9	110	89.5	13.5-12.5/6.2	04,16
	1800	208-230/460	184TC	U5P2DC	$882	DS-3AL	1.25	16.9	80	90.2	13.6-12.3/6.2	03
	1800	208-230/460	184TCH	U5P2DK	$882	DS-3AL	1.25	16.9	80	90.2	13.6-12.3/6.2	03
	1800	575	184TC	S5P2GC	$752	DS-3RST	1.15	15.9	70	89.5	4.9	04
	1800	575	184TC	U5P2GC	$882	DS-3AL	1.25	16.9	70	89.5	5	
	1200	208-230/460	215TC	U5P3DC	$1,597	DS-3AL	1.25	20.3	135	90.2	15-14/7	03
	1200	575	215TC	U5P3GC	$1,597	DS-3AL	1.25	20.3	135	89.5	5.6	

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate.

Note 04 On 60 Hertz Sine Wave power.

Note 14 NEMA® Design A.

Note 16 Motors marked 208-230/460 volts may not meet all NEMA® (MG-1) performance standards when operated at 208 volts.

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC), C-Face Footed

(continued)



HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
7 1/2	3600	208-230/460	213TC	S7P1AC	$996	DS-3RST	1.15	19.4	116	89.5	19.9-17.9/9	04,16
	3600	208-230/460	213TC	U7P1DC	$1,306	DS-3AL	1.25	18.8	105	91.0	19.9-17.8/8.9	03
	3600	575	213TC	S7P1GC	$996	DS-3RST	1.15	19.4	105	89.5	7.2	04,16
	3600	575	213TC	U7P1GC	$1,306	DS-3AL	1.25	18.8	105	89.5	7.5	
	1800	208-230/460	213TC	S7P2AC	$956	DS-3RST	1.15	19.4	90	91.7	20-18.1/9.1	04,16
	1800	208-230/460	213TC	U7P2DC	$1,192	DS-3AL	1.25	19.1	105	91.7	20-18.2/9.1	03
	1800	575	213TC	S7P2GC	$956	DS-3RST	1.15	19.4	105	91.7	7.2	04,16
	1800	575	213TC	U7P2GC	$1,192	DS-3AL	1.25	18.8	105	91.7	7.2	
	1200	208-230/460	254TC	U7P3DC	$2,147	DS-3AL	1.25	23.9	180	91.0	20.6-19/9.5	03
	1200	575	254TC	U7P3GC	$2,147	DS-3AL	1.25	24.0	180	91.0	7.6	
10	3600	208-230/460	215TC	S10P1AC	$1,142	DS-3RST	1.15	19.4	131	90.2	26.5-23.5/11.7	04,16
	3600	208-230/460	215TC	U10P1DC	$1,511	DS-3AL	1.25	20.3	125	91.0	26.4-23.5/11.8	03
	3600	575	215TC	S10P1GC	$1,078	DS-3RST	1.15	19.4	120	90.2	9.4	04,16
	3600	575	215TC	U10P1GC	$1,511	DS-3AL	1.25	20.1	125	91.7	9.4	
	1800	208-230/460	215TC	S10P2AC	$1,176	DS-3RST	1.15	19.4	120	91.7	26.6-24/12	04,16
	1800	208-230/460	215TC	U10P2DC	$1,416	DS-3AL	1.25	20.3	133	91.7	26.5-23.9/12	03
	1800	575	215TC	S10P2GC	$1,176	DS-3RST	1.15	19.4	120	91.7	9.5	04,16
	1800	575	215TC	U10P2GC	$1,416	DS-3AL	1.25	20.3	133	91.7	9.6	
	1200	208-230/460	256TC	U10P3DC	$2,558	DS-3AL	1.25	25.8	230	91.7	27.1-24.6/12.3	03
15	3600	230/460	254TC	S15P1AC	$1,718	DS-3RST	1.15	25.4	180	91.0	35/17.3	
	3600	208-230/460	215TC	U15P1DFC	$1,812	DS-3AL	1.25	20.3	120	91.0	40-35/17.4	03
	3600	208-230/460	254TC	U15P1DC	$2,174	DS-3AL	1.25	24.0	180	91.0	39-35/17.5	03
	3600	575	254TC	S15P1GC	$1,718	DS-3RST	1.15	25.4	180	91.0	13.9	
	3600	575	254TC	U15P1GC	$2,174	DS-3AL	1.25	24.0	185	91.0	14.1	
	1800	230/460	254TC	S15P2AC	$1,715	DS-3RST	1.15	25.4	180	92.4	36/17.9	
	1800	208-230/460	254TC	U15P2DC	$1,973	DS-3AL	1.15	23.9	180	92.4	40-37/18.4	03
	1800	575	254TC	S15P2GC	$1,715	DS-3RST	1.15	25.4	180	92.4	14.4	
20	3600	230/460	256TC	S20P1AC	$2,085	DS-3RST	1.15	25.4	230	91.0	46/23	14
	3600	208-230/460	256TC	U20P1DC	$2,650	DS-3AL	1.25	25.6	230	91.0	53-46/23.1	03
	3600	575	256TC	S20P1GC	$2,085	DS-3RST	1.15	25.4	230	91.0	18.5	14
	3600	575	256TC	U20P1GC	$2,650	DS-3AL	1.25	25.8	230	91.0	18.5	
	1800	230/460	256TC	S20P2AC	$2,073	DS-3RST	1.15	25.4	230	93.0	48/24	14
	1800	208-230/460	256TC	U20P2DC	$2,391	DS-3AL	1.25	25.8	230	93.0	53-47/23.5	03
	1800	575	256TC	S20P2GC	$2,073	DS-3RST	1.15	25.4	230	93.0	19.4	14
25	3600	208-230/460	284TC	U25P1DC	$3,268	DS-3AL	1.25	28.3	250	91.7	65-57/28.4	03
	1800	208-230/460	284TC	U25P2DC	$2,890	DS-3AL	1.25	28.3	280	93.6	65-59/29.3	03
30	1800	208-230/460	286TC	U30P2DC	$3,333	DS-3AL	1.25	28.4	325	93.6	78-73/36	03

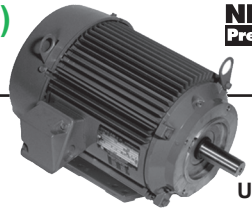
Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate.

Note 04 On 60 Hertz Sine Wave power.

Note 14 NEMA® Design A

Note 16 Motors marked 208-230/460 volts may not meet all NEMA® (MG-1) performance standards when operated at 208 volts.

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) UNIMOUNT® NEMA®† Premium Efficient, C-Face Footed



NEMA Premium

UT,FUT
UTE

APPLICATIONS:

For general industrial equipment including fans, blowers, compressors, pumps and direct connected equipment.

FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- Shaft Slinger On Pulley End
- Full 50 & 60 Hertz Operating Data On Nameplate (03)
- Full HP @ 50 Hertz
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- Suitable For Wye-Delta Start 250 Frame & Larger
- Conversion Kits: C&D Flanges, Drip Cover and Brakes
- Refer to Page vii for Suitability of IHP Motors on Variable Frequency Drives
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1 1/2	1200	208-230/460	182TC	U32P3DC	$845	DS-3AL	1.25	16.2	60	87.5	4.8-4.7/2.3	03
	1200	575	182TC	U32P3GC	$845	DS-3AL	1.25	16.2	60	87.5	1.8	
2	1200	208-230/460	184TC	U2P3DC	$930	DS-3AL	1.25	16.9	70	88.5	6.4-6.2/3.1	03
	1200	575	184TC	U2P3GC	$930	DS-3AL	1.25	16.2	70	88.5	2.5	
3	3600	208-230/460	182TC	U3P1DC	$860	DS-3AL	1.25	16.2	50	87.5	8.4-7.8/3.9	03
	3600	208-230/460	182TCH	U3P1DK	$860	DS-3AL	1.25	16.2	50	87.5	8.4-7.8/3.9	03
	3600	575	182TC	U3P1GC	$860	DS-3AL	1.25	16.2	60	87.5	3.1	
	1800	208-230/460	182TC	U3P2DC	$772	DS-3AL	1.25	16.2	70	89.5	8.4-7.8/3.9	03
	1800	208-230/460	182TCH	U3P2DK	$772	DS-3AL	1.25	16.2	60	89.5	8.4-7.8/3.9	03
	1800	575	182TC	U3P2GC	$772	DS-3AL	1.25	16.2	60	89.5	3.2	
	1200	208-230/460	213TC	U3P3DC	$1,150	DS-3AL	1.15	18.8	110	89.5	9.3-8.6/4.3	03
5	3600	208-230/460	184TC	U5P1DC	$1,056	DS-3AL	1.15	16.2	75	88.5	13.4-12.2/6.1	03
	3600	208-230/460	184TCH	U5P1DK	$1,056	DS-3AL	1.15	16.2	75	88.5	13.4-12.2/6.1	03
	3600	575	184TC	U5P1GC	$1,056	DS-3AL	1.25	16.2	70	88.5	4.9	
	1800	200	184TCH	U5P2HK	$882	DS-3AL	1.25	16.9	80	89.5	14.2	03
	1800	208-230/460	184TC	U5P2DC	$882	DS-3AL	1.25	16.9	80	90.2	13.6-12.3/6.2	03
	1800	208-230/460	184TCH	U5P2DK	$882	DS-3AL	1.25	16.9	80	90.2	13.6-12.3/6.2	03
	1800	575	184TC	U5P2GC	$882	DS-3AL	1.25	16.9	70	89.5	5	
	1200	208-230/460	215TC	U5P3DC	$1,597	DS-3AL	1.25	20.3	135	90.2	15-14/7	03
	1200	575	215TC	U5P3GC	$1,597	DS-3AL	1.25	20.3	135	89.5	5.6	
7 1/2	3600	208-230/460	213TC	U7P1DC	$1,306	DS-3AL	1.25	18.8	105	91.0	19.9-17.8/8.9	03
	3600	575	213TC	U7P1GC	$1,306	DS-3AL	1.25	18.8	105	89.5	7.5	
	1800	208-230/460	213TC	U7P2DC	$1,192	DS-3AL	1.25	19.1	105	91.7	20-18.2/9.1	03
	1800	575	213TC	U7P2GC	$1,192	DS-3AL	1.25	18.8	105	91.7	7.2	
	1200	208-230/460	254TC	U7P3DC	$2,147	DS-3AL	1.25	23.9	180	91.0	20.6-19/9.5	03
	1200	575	254TC	U7P3GC	$2,147	DS-3AL	1.25	24.0	180	91.0	7.6	
10	3600	208-230/460	215TC	U10P1DC	$1,511	DS-3AL	1.25	20.3	125	91.0	26.4-23.5/11.8	03
	3600	575	215TC	U10P1GC	$1,511	DS-3AL	1.25	20.1	125	91.7	9.4	
	1800	208-230/460	215TC	U10P2DC	$1,416	DS-3AL	1.25	20.3	133	91.7	26.5-23.9/12	03
	1800	575	215TC	U10P2GC	$1,416	DS-3AL	1.25	20.3	133	91.7	9.6	
	1200	208-230/460	256TC	U10P3DC	$2,558	DS-3AL	1.25	25.8	230	91.7	27.1-24.6/12.3	03
15	3600	208-230/460	215TC	U15P1DFC	$1,812	DS-3AL	1.25	20.3	120	91.0	40-35/17.4	03
	3600	208-230/460	254TC	U15P1DC	$2,174	DS-3AL	1.25	24.0	180	91.0	39-35/17.5	02,03
	3600	575	254TC	U15P1GC	$2,174	DS-3AL	1.25	24.0	185	91.0	14.1	
	1800	208-230/460	254TC	U15P2DC	$1,973	DS-3AL	1.15	23.9	180	92.4	40-37/18.4	03
20	3600	208-230/460	256TC	U20P1DC	$2,650	DS-3AL	1.25	25.6	230	91.0	53-46/23.1	02,03
	3600	575	256TC	U20P1GC	$2,650	DS-3AL	1.25	25.8	230	91.0	18.5	02
	1800	208-230/460	256TC	U20P2DC	$2,391	DS-3AL	1.25	25.8	230	93.0	53-47/23.5	03
25	3600	208-230/460	284TC	U25P1DC	$3,268	DS-3AL	1.25	28.3	250	91.7	65-57/28.4	03
	1800	208-230/460	284TC	U25P2DC	$2,890	DS-3AL	1.25	28.3	280	93.6	65-59/29.3	03
30	1800	208-230/460	286TC	U30P2DC	$3,333	DS-3AL	1.25	28.4	325	93.6	78-73/36	03

Note 02 Suitable for Wye-Delta start on voltages shown
Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) STEEL EDGE® C-Face Footed



APPLICATIONS:

For general industrial equipment including fans, blowers, compressors, pumps and direct connected equipment.

FEATURES:

- Rolled Steel Frame
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- Shaft Slinger On Pulley End
- 40°C Ambient, NEMA® Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1/4	1800	208-230/460	56C	U14S2AC	$246	DS-3RST	1.25	10.8	20	70.0	1.3-1.4/0.7	
	1800	575	56C	U14P2GC	$319	DS-3RST	1.25	10.8	30	74.0	0.4	
	1200	208-230/460	56C	U14S3AC	$323	DS-3RST	1.25	10.8	22	72.0	1.1-1.2/0.6	
	1200	575	56C	U14P3GC	$407	DS-3RST	1.25	10.8	30	72.0	0.6	
1/3	1800	208-230/460	56C	U13S2AC	$281	DS-3RST	1.25	10.8	22	72.0	1.4-1.5/0.7	
	1800	575	56C	U13P2GC	$365	DS-3RST	1.25	10.8	30	74.0	0.5	
	1200	208-230/460	56C	U13S3AC	$361	DS-3RST	1.25	10.8	23	75.5	1.3-1.3/0.6	
	1200	575	56C	U13P3GC	$455	DS-3RST	1.25	10.8	30	72.0	0.7	
1/2	3600	208-230/460	56C	U12S1AC	$306	DS-3RST	1.25	10.8	25	70.0	1.7-1.6/0.8	
	1800	208-230/460	56C	U12S2AC	$306	DS-3RST	1.25	10.8	26	74.0	1.8-1.8/0.9	
	1800	575	56C	U12P2GC	$397	DS-3RST	1.25	10.8	30	78.5	0.8	
	1200	208-230/460	56C	U12S3AC	$393	DS-3RST	1.25	11.5	26	72.0	2.2-2.2/1.1	103
	1200	575	56C	U12P3GC	$495	DS-3RST	1.25	12.1	30	75.5	0.8	
	3600	575	56C	U12P1GC	$386	DS-3RST	1.25	12.1	30	74.0	0.6	
3/4	3600	208-230/460	56C	U34S1AC	$319	DS-3RST	1.25	10.8	26	75.5	2.4-2.2/1.1	
	3600	575	56C	U34P1GC	$402	DS-3RST	1.25	12.1	30	77.0	0.8	
	1800	208-230/460	56C	U34S2AC	$329	DS-3RST	1.25	10.8	32	77.0	2.7-2.7/1.4	
	1800	575	56C	U34P2GC	$427	DS-3RST	1.25	10.8	30	81.5	1	
	1200	208-230/460	56C	U34S3AC	$464	DS-3RST	1.25	12.9	34	80.4	3.1-3.2/1.6	103
	1200	208-230/460	143TC	U34S3DC	$464	DS-3RST	1.25	12.1	30	72.0	3-3.1/1.6	
	1200	575	56C	U34P3GC	$585	DS-3RST	1.25	13.1	30	82.5	1.2	
	1200	575	143TC	U34P3G14C	$585	DS-3RST	1.25	13.1	30	82.5	1.2	
1	3600	208-230/460	56C	U1P1DC	$503	DS-3RST	1.25	13.1	30	81.5	2.9-2.7/1.4	03
	3600	575	56C	U1P1GC	$503	DS-3RST	1.25	13.1	50	81.5	1.1	
	1800	208-230/460	56C	U1P2DFC	$440	DS-3RST	1.25	13.1	30	85.5	3.1-3/1.5	03
	1800	208-230/460	143TC	U1P2DC	$503	DS-3RST	1.25	13.1	30	85.5	3.1-3/1.5	03
	1800	575	56C	U1P2GFC	$440	DS-3RST	1.25	13.1	30	85.5	1.1	03
	1800	575	143TC	U1P2GC	$503	DS-3RST	1.25	13.1	30	85.5	1.1	
	1200	208-230/460	56C	U1P3DFC	$655	DS-3RST	1.25	13.1	30	82.5	3.6-3.5/1.8	03
	1200	208-230/460	145TC	U1P3DC	$655	DS-3RST	1.25	13.1	35	82.5	3.6-3.5/1.8	03
	1200	575	56C	U1P3GFC	$655	DS-3RST	1.25	13.1	30	82.5	1.4	
	1200	575	145TC	U1P3GC	$655	DS-3RST	1.25	13.1	35	82.5	1.4	

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 103 Does not accept brake kit

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) STEEL EDGE® C-Face Footed

(continued)



HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1 1/2	3600	208-230/460	56C	U32P1DFC	$500	DS-3RST	1.25	13.1	30	84.0	4.2-3.9/1.9	03
	3600	208-230/460	143TC	U32P1DC	$567	DS-3RST	1.25	13.1	30	84.0	4.2-3.9/1.9	03
	3600	575	56C	U32P1GFC	$567	DS-3RST	1.25	13.1	30	84.0	1.6	
	3600	575	143TC	U32P1GC	$567	DS-3RST	1.25	13.1	30	84.0	1.6	
	1800	200	145TC	U32P2HC	$549	DS-3RST	1.25	13.1	35	86.5	4.7	
	1800	208-230/460	56C	U32P2DFC	$442	DS-3RST	1.25	13.1	30	86.5	4.5-4.3/2.1	03
	1800	208-230/460	145TC	U32P2DC	$549	DS-3RST	1.15	13.1	35	86.5	4.5-4.3/2.1	03
	1800	575	56C	U32P2GFC	$442	DS-3RST	1.25	13.1	30	86.5	1.7	03
	1800	575	145TC	U32P2GC	$549	DS-3RST	1.25	13.1	35	86.5	1.7	
2	3600	208-230/460	56C	U2P1DFC	$491	DS-3RST	1.25	13.1	30	86.5	5.4-4.9/2.5	03
	3600	208-230/460	145TC	U2P1DC	$604	DS-3RST	1.25	13.1	35	86.5	5.4-4.9/2.5	03
	3600	575	56C	U2P1GFC	$496	DS-3RST	1.25	13.1	30	86.5	2	
	3600	575	145TC	U2P1GC	$604	DS-3RST	1.25	13.1	35	86.5	2	
	1800	208-230/460	56C	U2P2DFC	$484	DS-3RST	1.25	13.1	30	86.5	5.9-5.7/2.8	03
	1800	208-230/460	145TC	U2P2DC	$593	DS-3RST	1.15	13.1	35	86.5	5.9-5.7/2.9	03
	1800	575	56C	U2P2GFC	$484	DS-3RST	1.25	13.9	50	85.5	2.5	04,16
	1800	575	145TC	U2P2GC	$593	DS-3RST	1.25	13.1	35	86.5	2.3	
3	3600	208-230/460	56C	U3P1DFC	$568	DS-3RST	1.25	13.1	30	86.5	8.1-7.2/3.6	03
	3600	208-230/460	145TC	U3P1AFC	$600	DS-3RST	1.25	13.1	35	86.5	8.1-7.2/3.6	03,14
	3600	575	56C	U3P1GFC	$568	DS-3RST	1.25	13.1	30	86.5	2.8	
	3600	575	145TC	U3P1G14C	$600	DS-3RST	1.25	13.1	35	86.5	2.8	
	1800	208-230/460	182TC	S3P2AC	$637	DS-3RST	1.15	15.9	85	89.5	8.4-7.8/3.9	04,16
	1800	575	182TC	S3P2GC	$637	DS-3RST	1.15	15.9	60	89.5	3.2	04
5	3600	208-230/460	184TC	S5P1AC	$752	DS-3RST	1.15	15.9	65	88.5	13.6-12.1/6.1	04,16
	3600	575	184TC	S5P1GC	$752	DS-3RST	1.15	15.9	70	88.5	4.9	04
	1800	208-230/460	184TC	S5P2AC	$752	DS-3RST	1.15	15.9	110	89.5	13.5-12.5/6.2	04,16
	1800	575	184TC	S5P2GC	$752	DS-3RST	1.15	15.9	70	89.5	4.9	04
7 1/2	3600	208-230/460	213TC	S7P1AC	$996	DS-3RST	1.15	19.4	116	89.5	19.9-17.9/9	04,16
	3600	575	213TC	S7P1GC	$996	DS-3RST	1.15	19.4	105	89.5	7.2	04,16
	1800	208-230/460	213TC	S7P2AC	$956	DS-3RST	1.15	19.4	90	91.7	20-18.1/9.1	04,16
	1800	575	213TC	S7P2GC	$956	DS-3RST	1.15	19.4	105	91.7	7.2	04,16
10	3600	208-230/460	215TC	S10P1AC	$1,142	DS-3RST	1.15	19.4	131	90.2	26.5-23.5/11.7	04,16
	3600	575	215TC	S10P1GC	$1,078	DS-3RST	1.15	19.4	120	90.2	9.4	04,16
	1800	208-230/460	215TC	S10P2AC	$1,176	DS-3RST	1.15	19.4	120	91.7	26.6-24/12	04,16
	1800	575	215TC	S10P2GC	$1,176	DS-3RST	1.15	19.4	120	91.7	9.5	04,16
15	3600	230/460	254TC	S15P1AC	$1,718	DS-3RST	1.15	25.4	180	91.0	35/17.3	
	3600	575	254TC	S15P1GC	$1,718	DS-3RST	1.15	25.4	180	91.0	13.9	
	1800	230/460	254TC	S15P2AC	$1,715	DS-3RST	1.15	25.4	180	92.4	36/17.9	
	1800	575	254TC	S15P2GC	$1,715	DS-3RST	1.15	25.4	180	92.4	14.4	
20	3600	230/460	256TC	S20P1AC	$2,085	DS-3RST	1.15	25.4	230	91.0	46/23	14
	3600	575	256TC	S20P1GC	$2,085	DS-3RST	1.15	25.4	230	91.0	18.5	14
	1800	230/460	256TC	S20P2AC	$2,073	DS-3RST	1.15	25.4	230	93.0	48/24	14
	1800	575	256TC	S20P2GC	$2,073	DS-3RST	1.15	25.4	230	93.0	19.4	14

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 04 On 60 Hertz Sine Wave power

Note 14 NEMA® Design A

Note 16 Motors marked 208-230/460 volts may not meet all NEMA® (MG-1) performance standards when operated at 208 volts

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) C-Face Footless

APPLICATIONS:

For general industrial equipment including fans, blowers, compressors, pumps and direct connected equipment.

FEATURES:

UNIMOUNT® NEMA®† Premium Efficient (Discount Symbol DS-3AL)

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- Shaft Slinger On Pulley End
- Full 50 & 60 Hertz Operating Data On Nameplate (03)
- Full HP @ 50 Hertz
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- Suitable For Wye-Delta Start 250 Frame & Larger
- Conversion Kits: C&D Flanges, Drip Cover and Brakes
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

STEEL EDGE® (Discount Symbol DS-3RST)

- Rolled Steel Frame
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- Shaft Slinger On Pulley End
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- Conversion Kits: Drip Cover and Brakes (140 Frame and Up)
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1/4	1800	208-230/460	56C	U14S2DCR	$231	DS-3RST	1.25	10.8	23	70.0	1-1/0.5	16
	1200	208-230/460	56C	T14S3DCR	$308	DS-3RST	1.15	11.3	27	75.5	1.4-1.4/0.7	103
1/3	3600	208-230/460	56C	T13S1ACR	$279	DS-3RST	1.15	10.8	32	74.6	1.7-1.8/0.9	103
	1800	208-230/460	42CZ	T13S2D42ZCR	$266	DS-3RST	1.00	10.4	9	75.5	1.5-1.5/0.75	
	1800	208-230/460	56C	U13S2ACR	$266	DS-3RST	1.25	10.8	25	75.5	1.2-1.2/0.6	16
	1800	575	56C	T13S2GCR	$266	DS-3RST	1.15	11.4	26	74.9	0.59	103
	1200	208-230/460	56C	T13S3DCR	$346	DS-3RST	1.15	11.3	32	77.0	1.6-1.6/0.80	103
1/2	3600	208-230/460	56C	T12S1ACR	$291	DS-3RST	1.15	10.9	32	64.0	2.18-2.18/1.09	103
	1800	208-230/460	56C	U12P2DCR	$378	DS-3RST	1.25	12.1	30	82.5	1.8-1.8/0.9	03
	1800	208-230/460	56C	U12S2ACR	$291	DS-3RST	1.25	10.8	25	75.5	1.8-1.7/0.9	16
	1800	575	56C	U12P2GCR	$378	DS-3RST	1.25	10.8	30	78.5	0.8	
	1200	208-230/460	56C	U12S3ACR	$378	DS-3RST	1.25	10.8	25	72.0	2.1-2.1/1	16
3/4	3600	208-230/460	56C	U34S1ACR	$304	DS-3RST	1.25	10.8	27	75.5	2.4-2.2/1.1	16
	1800	208-230/460	56C	U34P2DCR	$408	DS-3RST	1.25	12.1	30	84.0	2.3-2.3/1.1	03
	1800	208-230/460	56C	U34S2ACR	$314	DS-3RST	1.25	10.8	28	78.5	2.6-2.7/1.3	16
	1800	575	56C	U34P2GCR	$408	DS-3RST	1.25	10.8	30	81.5	1	
	1200	208-230/460	56C	U34S3ACR	$449	DS-3RST	1.15	12.8	32	80.4	3.1-3.2/1.6	103
	1200	575	56C	U34P3GCR	$566	DS-3RST	1.25	13.1	30	82.5	1.2	
1	3600	208-230/460	56C	U1P1DCR	$488	DS-3RST	1.25	13.1	30	81.5	2.9-2.7/1.4	03
	3600	575	56C	U1P1GCR	$488	DS-3RST	1.25	10.8	30	80.0	1.1	
	1800	208-230/460	56C	U1P2DFCR	$425	DS-3RST	1.25	13.1	30	85.5	3.1-3/1.5	03
	1800	208-230/460	143TC	U1P2DCR	$488	DS-3RST	1.15	12.1	30	85.5	3.1-3/1.5	03
	1800	575	56C	U1P2GFCR	$425	DS-3RST	1.25	13.1	30	85.5	1.1	
	1800	575	143TC	U1P2GCR	$488	DS-3RST	1.25	13.1	30	85.5	1.1	
	1200	575	56C	U1P3GFCR	$655	DS-3RST	1.25	13.4	35	82.5	1.4	
1 1/2	3600	208-230/460	56C	T32P1ACR	$485	DS-3RST	1.15	12.3	32	84.0	4.9-5.0/2.5	
	3600	208-230/460	143TC	U32P1A14CR	$552	DS-3RST	1.15	11.9	32	84.0	4.9-5.0/2.5	103
	3600	575	56C	U32P1GFCR	$647	DS-3RST	1.25	13.1	30	84.0	1.6	
	3600	575	143TC	U32P1GCR	$647	DS-3RST	1.25	13.1	30	84.0	1.6	

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 16 Motors marked 208-230/460 volts may not meet all NEMA®† (MG-1) performance standards when operated at 208 volts

Note 103 Does not accept brake kit

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) C-Face Footless

(continued)

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1 1/2	1800	208-230/460	56C	U32P2DFCR	$426	DS-3RST	1.25	13.1	30	86.5	4.5-4.3/2.1	03
	1800	208-230/460	145TC	U32P2DCR	$534	DS-3RST	1.25	13.1	35	86.5	4.5-4.3/2.1	03
	1800	575	56C	U32P2GFCR	$426	DS-3RST	1.25	13.1	30	86.5	1.7	
	1800	575	145TC	U32P2GCR	$534	DS-3RST	1.25	13.1	35	86.5	1.7	
	1200	208-230/460	182TC	U32P3DCR	$815	DS-3AL	1.25	16.2	60	87.5	4.8-4.7/2.3	03
2	3600	208-230/460	56C	T2P1ACR	$529	DS-3RST	1.15	13.6	35	85.5	6.0-5.6/2.8	04,16
	3600	575	56C	U2P1GFCR	$479	DS-3RST	1.25	13.1	30	86.5	2	
	1800	208-230/460	56C	U2P2DFCR	$467	DS-3RST	1.25	13.1	30	86.5	5.9-5.7/2.8	03
	1800	208-230/460	145TC	U2P2DCR	$578	DS-3RST	1.25	13.1	35	86.5	5.9-5.7/2.8	03
	1800	575	145TC	U2P2GCR	$578	DS-3RST	1.25	13.1	35	86.5	2.3	
	1200	208-230/460	184TC	U2P3DCR	$900	DS-3AL	1.15	16.9	70	88.5	6.4-6.2/3.1	03
3	3600	208-230/460	56C	T3P1ACR	$583	DS-3RST	1.15	14.1	40	86.5	7.9-6.7/3.4	
	3600	208-230/460	145TC	U3P1A14CR	$575	DS-3RST	1.25	13.9	34	86.5	7.4-7.5/3.7	04,16
	3600	208-230/460	182TC	U3P1DCR	$830	DS-3AL	1.25	16.2	60	87.5	8.4-7.8/3.9	03
	3600	208-230/460	182TCH	U3P1DKR	$830	DS-3AL	1.25	16.2	60	87.5	8.4-7.8/3.9	03
	3600	575	56C	U3P1GFCR	$551	DS-3RST	1.25	13.1	30	86.5	2.8	
	3600	575	145TC	U3P1GCR	$568	DS-3RST	1.25	13.1	35	86.5	2.8	
	1800	208-230/460	182TC	S3P2ACR	$607	DS-3RST	1.15	15.9	60	89.5	8.4-7.8/3.9	04,16
	1800	208-230/460	182TC	U3P2DCR	$742	DS-3AL	1.25	16.1	60	89.5	8.4-7.8/3.9	03
	1800	208-230/460	182TCH	U3P2DKR	$742	DS-3AL	1.25	16.2	60	89.5	8.4-7.8/3.9	03
	1800	575	182TC	S3P2GCR	$607	DS-3RST	1.15	15.9	60	89.5	3.2	04
	1800	575	182TC	U3P2GCR	$742	DS-3AL	1.25	16.2	60	89.5	3.2	
	1200	208-230/460	213TC	U3P3DCR	$1,105	DS-3AL	1.15	18.6	105	89.5	9.3-8.6/4.3	03
5	3600	208-230/460	184TC	S5P1ACR	$722	DS-3RST	1.15	15.9	70	88.5	13.6-12.1/6.1	04,16
	3600	208-230/460	184TC	U5P1DCR	$1,026	DS-3AL	1.15	16.9	70	88.5	13.4-12.2/6.1	03
	3600	208-230/460	184TCH	U5P1DKR	$1,026	DS-3AL	1.15	16.9	70	88.5	13.4-12.2/6.1	03
	3600	575	184TC	S5P1GCR	$722	DS-3RST	1.15	15.9	70	88.5	4.9	04
	1800	208-230/460	184TC	S5P2ACR	$722	DS-3RST	1.15	15.9	70	89.5	13.5-12.5/6.2	04,16
	1800	208-230/460	184TC	U5P2DCR	$852	DS-3AL	1.25	16.9	80	90.2	13.6-12.3/6.2	03
	1800	208-230/460	184TCH	U5P2DKR	$852	DS-3AL	1.25	16.9	70	90.2	13.6-12.3/6.2	03
	1800	575	184TC	S5P2GCR	$722	DS-3RST	1.15	15.9	70	89.5	4.9	04
	1800	575	184TC	U5P2GCR	$852	DS-3AL	1.25	16.9	70	89.5	5	
	1200	208-230/460	215TC	U5P3DCR	$1,552	DS-3AL	1.25	20.1	120	90.2	15-14/7	03
7 1/2	3600	208-230/460	213TC	S7P1ACR	$951	DS-3RST	1.15	19.4	105	89.5	19.9-17.9/9	04,16
	3600	208-230/460	213TC	U7P1DCR	$1,147	DS-3AL	1.25	18.6	105	91.0	19.9-17.8/8.9	03
	3600	575	213TC	S7P1GCR	$951	DS-3RST	1.15	19.4	105	89.5	7.2	04
	1800	208-230/460	213TC	S7P2ACR	$911	DS-3RST	1.15	19.4	105	91.7	20-18.1/9.1	04,16
	1800	208-230/460	213TC	U7P2DCR	$1,147	DS-3AL	1.25	18.6	110	91.7	20-18.2/9.1	03
	1800	575	213TC	S7P2GCR	$911	DS-3RST	1.15	19.4	105	91.7	7.2	04
	1800	575	213TC	U7P2GCR	$1,147	DS-3AL	1.25	18.6	105	91.7	7.2	
	1200	208-230/460	254TC	U7P3DCR	$2,087	DS-3AL	1.25	23.9	180	91.0	20.6-19/9.5	03

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 04 On 60 Hertz Sine Wave power

Note 16 Motors marked 208-230/460 volts may not meet all NEMA[®†] (MG-1) performance standards when operated at 208 volts

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) C-Face Footless

(continued)

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
10	3600	208-230/460	215TC	S10P1ACR	$1,097	DS-3RST	1.15	19.4	120	90.2	26.5-23.5/11.7	04,16
	3600	208-230/460	215TC	U10P1DCR	$1,466	DS-3AL	1.25	20.1	120	91.0	26.4-23.5/11.8	03
	3600	575	215TC	S10P1GCR	$1,097	DS-3RST	1.15	19.4	120	90.2	9.4	04
	1800	208-230/460	215TC	S10P2ACR	$1,131	DS-3RST	1.15	19.4	120	91.7	26.6-24/12	04,16
	1800	208-230/460	215TC	U10P2DCR	$1,371	DS-3AL	1.25	20.1	133	91.7	26.5-23.9/12	03
	1800	575	215TC	S10P2GCR	$1,131	DS-3RST	1.15	19.4	120	91.7	9.5	04
	1800	575	215TC	U10P2GCR	$1,371	DS-3AL	1.25	20.1	120	91.7	9.6	
	1200	208-230/460	256TC	U10P3DCR	$2,498	DS-3AL	1.25	25.7	230	91.7	27.1-24.6/12.3	03
15	3600	230/460	254TC	S15P1ACR	$1,658	DS-3RST	1.15	27.7	180	91.0	35/17.3	
	3600	208-230/460	215TC	U15P1DFCR	$1,767	DS-3AL	1.25	20.1	120	91.0	40-35/17.4	03
	3600	208-230/460	254TC	U15P1DCR	$2,114	DS-3AL	1.25	23.9	180	91.0	39-35/17.5	03
	3600	575	254TC	S15P1GCR	$1,658	DS-3RST	1.15	27.7	180	91.0	13.9	
	1800	230/460	254TC	S15P2ACR	$1,655	DS-3RST	1.15	27.7	180	92.4	36/17.9	
	1800	208-230/460	254TC	U15P2DCR	$1,913	DS-3AL	1.15	23.9	180	92.4	40-37/18.4	03
	1800	575	254TC	S15P2GCR	$1,655	DS-3RST	1.15	27.7	180	92.4	14.4	
	1800	575	254TC	U15P2GCR	$1,913	DS-3AL	1.25	23.9	180	92.4	14.6	
20	3600	230/460	256TC	S20P1ACR	$2,025	DS-3RST	1.15	27.7	230	91.0	46/23	14
	3600	208-230/460	256TC	U20P1DCR	$2,590	DS-3AL	1.25	25.6	230	91.0	53-46/23.1	03
	3600	575	256TC	S20P1GCR	$2,025	DS-3RST	1.15	27.7	230	91.0	18.5	14
	1800	230/460	256TC	S20P2ACR	$2,013	DS-3RST	1.15	27.7	230	93.0	48/24	14
	1800	208-230/460	256TC	U20P2DCR	$2,331	DS-3AL	1.25	25.6	230	93.0	53-47/23.5	03
	1800	575	256TC	S20P2GCR	$2,013	DS-3RST	1.15	27.7	230	93.0	19.4	14
25	3600	208-230/460	284TC	U25P1DCR	$3,208	DS-3AL	1.25	28.3	280	91.7	65-57/28.4	03
	1800	208-230/460	284TC	U25P2DCR	$2,830	DS-3AL	1.25	28.3	280	93.6	65-59/29.3	03
30	1800	208-230/460	286TC	U30P2DCR	$3,273	DS-3AL	1.25	28.3	300	93.6	78-70/35	03

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 04 On 60 Hertz Sine Wave power

Note 14 NEMA® Design A

Note 16 Motors marked 208-230/460 volts may not meet all NEMA® (MG-1) performance standards when operated at 208 volt

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) UNIMOUNT® NEMA®† Premium Efficient, C-Face Footless

NEMA Premium



APPLICATIONS:

For general industrial equipment including fans, blowers, compressors, pumps and direct connected equipment.

FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- Shaft Slinger On Pulley End
- Full 50 & 60 Hertz Operating Data On Nameplate (03)
- Full HP @ 50 Hertz
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Sealed Bearings (140 Frame); Double Shielded Bearings (180 Frame and Up)
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- Suitable For Wye-Delta Start 250 Frame & Larger
- Conversion Kits: C&D Flanges, Drip Cover and Brakes
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1 1/2	1200	208-230/460	182TC	U32P3DCR	$815	DS-3AL	1.25	16.2	60	87.5	4.8-4.7/2.3	03
2	1200	208-230/460	184TC	U2P3DCR	$900	DS-3AL	1.15	16.9	70	88.5	6.4-6.2/3.1	03
3	3600	208-230/460	182TC	U3P1DCR	$830	DS-3AL	1.25	16.2	60	87.5	8.4-7.8/3.9	03
	3600	208-230/460	182TCH	U3P1DKR	$830	DS-3AL	1.25	16.2	60	87.5	8.4-7.8/3.9	03
	1800	208-230/460	182TC	U3P2DCR	$742	DS-3AL	1.25	16.1	60	89.5	8.4-7.8/3.9	03
	1800	208-230/460	182TCH	U3P2DKR	$742	DS-3AL	1.25	16.2	60	89.5	8.4-7.8/3.9	03
	1800	575	182TC	U3P2GCR	$742	DS-3AL	1.25	16.2	60	89.5	3.2	
	1200	208-230/460	213TC	U3P3DCR	$1,105	DS-3AL	1.15	18.6	105	89.5	9.3-8.6/4.3	03
5	3600	208-230/460	184TC	U5P1DCR	$1,026	DS-3AL	1.15	16.9	70	88.5	13.4-12.2/6.1	03
	3600	208-230/460	184TCH	U5P1DKR	$1,026	DS-3AL	1.15	16.9	70	88.5	13.4-12.2/6.1	03
	1800	208-230/460	184TC	U5P2DCR	$852	DS-3AL	1.25	16.9	80	90.2	13.6-12.3/6.2	03
	1800	208-230/460	184TCH	U5P2DKR	$852	DS-3AL	1.25	16.9	70	90.2	13.6-12.3/6.2	03
	1800	575	184TC	U5P2GCR	$852	DS-3AL	1.25	16.9	70	89.5	5	
	1200	208-230/460	215TC	U5P3DCR	$1,552	DS-3AL	1.25	20.1	120	90.2	15-14/7	03
7 1/2	3600	208-230/460	213TC	U7P1DCR	$1,147	DS-3AL	1.25	18.6	105	91.0	19.9-17.8/8.9	03
	1800	208-230/460	213TC	U7P2DCR	$1,147	DS-3AL	1.25	18.6	110	91.7	20-18.2/9.1	03
	1800	575	213TC	U7P2GCR	$1,147	DS-3AL	1.25	18.6	105	91.7	7.2	
	1200	208-230/460	254TC	U7P3DCR	$2,087	DS-3AL	1.25	23.9	180	91.0	20.6-19/9.5	03
10	3600	208-230/460	215TC	U10P1DCR	$1,466	DS-3AL	1.25	20.1	120	91.0	26.4-23.5/11.8	03
	1800	208-230/460	215TC	U10P2DCR	$1,371	DS-3AL	1.25	20.1	133	91.7	26.5-23.9/12	03
	1800	575	215TC	U10P2GCR	$1,371	DS-3AL	1.25	20.1	120	91.7	9.6	
	1200	208-230/460	256TC	U10P3DCR	$2,498	DS-3AL	1.25	25.7	230	91.7	27.1-24.6/12.3	03
15	3600	208-230/460	215TC	U15P1DFCR	$1,767	DS-3AL	1.25	20.1	120	91.0	40-35/17.4	03
	3600	208-230/460	254TC	U15P1DCR	$2,114	DS-3AL	1.25	23.9	180	91.0	39-35/17.5	03
	1800	208-230/460	254TC	U15P2DCR	$1,913	DS-3AL	1.15	23.9	180	92.4	40-37/18.4	03
	1800	575	254TC	U15P2GCR	$1,913	DS-3AL	1.25	23.9	180	92.4	14.6	
20	3600	208-230/460	256TC	U20P1DCR	$2,590	DS-3AL	1.25	25.6	230	91.0	53-46/23.1	03
	1800	208-230/460	256TC	U20P2DCR	$2,331	DS-3AL	1.25	25.6	230	93.0	53-47/23.5	03
25	3600	208-230/460	284TC	U25P1DCR	$3,208	DS-3AL	1.25	28.3	280	91.7	65-57/28.4	03
	1800	208-230/460	284TC	U25P2DCR	$2,830	DS-3AL	1.25	28.3	280	93.6	65-59/29.3	03
30	1800	208-230/460	286TC	U30P2DCR	$3,273	DS-3AL	1.25	28.3	300	93.6	78-70/35	03

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) World Motor CORRO-DUTY® NEMA®† Premium Efficient C-Face

APPLICATIONS:

For pulp & paper, mill & chemical and any other severe duty environments found in the process industries.

FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- All Cast Iron Construction
- Corrosion Resistant Mill & Chemical Duty Paint
- Stainless Steel Nameplate & Zinc Plated Hardware
- IP55 Protection
- Precision Balance (< 0.08 In/Sec Vibration)
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Regreasable Bearings, Lifting Provisions
- Double Shielded Bearings 140-210
- Oversized Conduit Box - 1 Size Larger Than NEMA®† Standard
- Cast Iron Inner Bearing Caps
- Field Convertible To F2 Mounting
- Condensation Drains With Threaded Brass Breather Plugs
- Self-Certified Class I, Division 2, Groups A, B, C, & D
- Suitable for 20:1 (3-60hz) Variable Torque; 5:1 (12-60hz) Constant Torque On Inverter Power
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1 1/2	3600	230/460	143TC	CD32P1EC	$711	DS-3CEW	1.15	14.2	60	84.0	3.9/1.9	105,G
	1800	230/460	145TC	CD32P2EC	$686	DS-3CEW	1.15	14.2	80	86.5	4.1/2.1	105,G
2	3600	230/460	145TC	CD2P1EC	$735	DS-3CEW	1.15	14.2	60	85.5	5/2.5	105,G
	1800	230/460	145TC	CD2P2EC	$744	DS-3CEW	1.15	14.2	80	86.5	5.3/2.7	105,G
3	3600	230/460	182TC	CD3P1EC	$872	DS-3CEW	1.15	17.2	90	86.5	8.2/4.1	105,G
	1800	230/460	182TC	CD3P2EC	$839	DS-3CEW	1.15	17.2	110	89.5	7.8/3.9	105,G
5	3600	230/460	184TC	CD5P1EC	$1,011	DS-3CEW	1.15	17.2	110	88.5	12.3/6.1	105,G
	1800	230/460	184TC	CD5P2EC	$938	DS-3CEW	1.15	17.2	120	89.5	12.7/6.3	105,G
7 1/2	3600	230/460	213TC	CD7P1EC	$1,228	DS-3CEW	1.15	20.4	160	89.5	18.1/9	105,G
	1800	230/460	213TC	CD7P2EC	$1,185	DS-3CEW	1.15	20.4	180	91.7	19.1/9.6	105,G
10	3600	230/460	215TC	CD10P1EC	$1,411	DS-3CEW	1.15	20.4	170	90.2	23.5/11.8	105,G
	1800	230/460	215TC	CD10P2EC	$1,444	DS-3CEW	1.15	20.4	200	91.7	25.7/12.8	105,G

Note 105 208 Volt Suitable
Note G 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 200/400 volt 50 Hz, 460V 60 Hz ratings operate on 400V 50 Hz; Full 60 & 50 Hz data on Nameplate

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) World Motor 841 Plus® NEMA®† Premium Efficient C-Face

APPLICATIONS:

For constant speed and inverter duty applications in petro-chemical, pulp & paper, automotive, mining and waste treatment industries.

FEATURES:

- Inverter Grade® Insulation System (Meets NEMA®† MG-1 Part 31)
- Class F Insulation, Class B Rise At Full Load (Sine Wave Power)
- All Cast Iron Construction
- Corrosion Resistant Mill & Chem Duty Paint (500 Hour Salt Spray Test)
- Stainless Steel Nameplate & Zinc Plated Hardware
- 40°C Ambient, NEMA®† Design B Performance (Sine Wave Power)
- VBXX®† Bearing Isolators By Inpro/Seal®† On Both Ends For IP55 Bearing Protection
- Same Size Regreasable Open Bearings, Brass Breathers/Drains
- 5 Year Warranty (3 Years on Inverter Power)
- External Grounding Provision, Epoxy Coated Rotor
- 20:1 (3-60hz) Variable Torque; 5:1 (12-60hz) Constant Torque On Inverter Power
- Precision Balance (< 0.05 In/Sec Vibration)
- 1.15 SF On Sine Wave / 1.0 SF On Inverter Power
- Meets or Exceeds IEEE Std 841™-2021
- Conversion Kits: C&D Flange, Drip Cover Kit, Shaft Grounding
- Self-Certified Class I, Division 2, Groups A, B, C, & D

C-Face Footless

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1	1800	460	143TC	8D1P2CCR	$778	DS-841W	1.15	14.2	70	85.5	1.5	
	1200	460	145TC	8D1P3CCR	$961	DS-841W	1.15	14.2	80	82.5	1.8	
1 1/2	3600	460	143TC	8D32P1CCR	$805	DS-841W	1.15	14.2	65	84.0	1.9	
	1800	460	145TC	8D32P2CCR	$817	DS-841W	1.15	14.2	80	86.5	2.1	
2	3600	460	145TC	8D2P1CCR	$880	DS-841W	1.15	14.2	70	85.5	2.5	
	1800	460	145TC	8D2P2CCR	$890	DS-841W	1.15	14.2	80	86.5	2.7	
	1200	460	184TCH	8D2P3CKR	$1,227	DS-841W	1.15	17.2	110	88.5	3.1	
3	3600	460	182TCH	8D3P1CKR	$993	DS-841W	1.15	17.2	90	86.5	4.1	
	1800	460	182TC	8D3P2CCR	$954	DS-841W	1.15	17.2	110	89.5	3.9	
	1200	460	213TC	8D3P3CCR	$1,503	DS-841W	1.15	20.4	180	89.5	4.3	
5	1800	460	184TC	8D5P2CCR	$1,196	DS-841W	1.15	17.2	120	89.5	6.3	
	1800	460	184TCH	8D5P2CKR	$1,196	DS-841W	1.15	17.2	120	89.5	6.3	
	1200	460	215TC	8D5P3CCR	$2,004	DS-841W	1.15	20.4	190	89.5	7.1	
7 1/2	3600	460	213TC	8D7P1CCR	$1,392	DS-841W	1.15	20.4	150	89.5	9	
	1800	460	213TC	8D7P2CCR	$1,342	DS-841W	1.15	20.4	180	91.7	9.6	
10	3600	460	215TC	8D10P1CCR	$1,602	DS-841W	1.15	20.4	170	90.2	11.8	
	1800	460	215TC	8D10P2CCR	$1,640	DS-841W	1.15	20.4	190	91.7	12.8	

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) Div. 1 Hazardous Location Dual & Single Label, C-Face



EF, LF

APPLICATIONS:

For pumps, fans, compressors, conveyors and tools located in hazardous locations as defined by Class and Group.

FEATURES:

For all Products Listed in this Section:

- UL® Listed & CSA® Certified
- Cast Iron Inner Bearing Caps (180 Frame and Larger)
- 40°C Ambient, NEMA® Design B Performance On 60 Hertz Sine Wave Power
- Regreasable Bearings 180 Frame & Up
- Lifting Provisions, 180 Frame & Up
- Conversion Kits: Cast Iron Fan Cover (180 Frame & Up)
- Sealed Bearings 56-140, Shielded 180 Frame & Up
- Class, Group & Temp Code as Noted Below
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

For Catalog Numbers Beginning with "X" or "Y":

- Cast Iron Frame Except Where Noted
- Cast Iron End Brackets & Conduit Box
- Class F Insulation
- 1.00 Service Factor on 60 Hertz Sine Wave Power
- Stainless Steel Nameplate & Zinc Plated Hardware
- Shaft Slinger on Pulley End for IP54 Protection
- Inverter Suitable: 2:1 Constant Torque, 10:1 Variable Torque

For Catalog Numbers Beginning with "XS":

- Aluminum End Brackets & Conduit Box
- Class B Insulation
- Steel Frame

Footless

HP	RPM	Voltage	Frame	Catalog Number	Class I Group	Class II Group	Temp Code	List	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1/3	1800	208-230/460 & 190/380	56C	XS13SA2DCR	CD	EFG	T3C	$490	DS-3CXD	13.3	29	75.1	1.4-1.3/ 0.65&1.4/ 0.7	13,24
	1800	230/460	56C	Y13S2BCR	D	-	T2B	$638	DS-3F	11.6	49	74.0	1.5/0.7	
1/2	1800	208-230/460	56C	XS12SA2DCR	CD	EFG	T3C	$530	DS-3CXD	13.3	30	79.7	2.0-1.9/1.0	
	1800	230/460	56C	Y12S2BCR	D	-	T2B	$672	DS-3F	11.6	48	77.0	1.7/0.9	
3/4	3600	208-230/460	56C	XS34S1ACR	CD	EFG	T3C	$630	DS-3CXD	13.3	32	84.6	2.7-2.6/1.3	
	1800	208-230/460	56C	XS34SA2ACR	CD	EFG	T3C	$601	DS-3CXD	14.3	32	84.5	2.8-2.9/1.4	13,24
	1800	230/460	56C	Y34S2BCR	D	-	T2B	$708	DS-3F	11.6	55	78.5	2.7/1.3	
1	1800	208-230/460	143TC	XS1P2ACR	CD	EFG	T3C	$760	DS-3CXD	15.3	42	85.5	3.3-3.3/1.6	
	1800	208-230/460	56C	XS1PA2ACR	CD	EFG	T3C	$800	DS-3CXD	14.8	40	85.5	3.2-3.1/1.5	13,24
	1800	230/460	143TC	X1P2BCR	D	FG	T3B	$779	DS-3CXD	13.3	60	85.5	3/1.5	
1 1/2	1800	208-230/460	143TC	XS32P2ACR	CD	EFG	T3C	$838	DS-3CXD	15.8	50	86.5	4.9-4.8/2.4	
	1800	230/460	145TC	X32P2BCR	D	FG	T3B	$852	DS-3CXD	13.3	75	86.5	4.3/2.1	
2	1800	208-230/460	145TC	XS2P2ACR	CD	EFG	T3C	$910	DS-3CXD	15.8	45	86.5	6.2-6.0/3.0	
	1800	230/460	145TC	X2P2BCR	D	FG	T3B	$925	DS-3CXD	13.3	75	86.5	5.2/2.6	
3	1800	230/460	182TC	X3P2BCR	D	FG	T3B	$1,066	DS-3CXD	16.3	105	89.5	7.7/3.8	
5	1800	230/460	184TC	X5P2BCR	D	FG	T3B	$1,216	DS-3CXD	16.3	118	89.5	12.5/6.2	
7 1/2	1800	230/460	213TC	X7P2BCR	D	FG	T3B	$1,604	DS-3CXD	20.0	160	91.7	18.6/9.3	
10	1800	230/460	215TC	X10P2BCR	D	FG	T3B	$1,906	DS-3CXD	20.0	190	91.7	23.9/12	
15	1800	230/460	254TC	X15P2BCR	D	FG	T3B	$2,557	DS-3CXD	25.6	316	92.4	37/18.3	

Note 13 Steel Frame Construction
Note 24 Automatic Reset Thermal Protector Overload

General Purpose Single Phase, Div.1 Hazardous Location Class I (Group C&D), Class II (Group E, F, & G)



APPLICATIONS:

For use on air compressors, pumps, conveyors, blowers and general industrial equipment located in hazardous areas.

FEATURES:

- UL®† Listed & CSA®† Certified
- Temperature Code T3C
- Class B Insulation
- Continuous Duty
- Totally Enclosed Fan Cooled Except Where Noted
- 40°C Ambient Rated
- F1 Assembly
- Automatic Reset Thermal Protector Overload
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

C-Face Footless

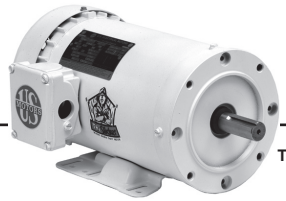
HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/4	1800	115/208-230&110/220	56C	XS14CA2JCR	$482	DS-3FMP	1.00	11.9	32	5.1/2.5-2.5 & 5.6/2.8	28
1/3	3600	115/208-230	56C	XS13CA1JCR	$614	DS-3FMP	1.00	13.3	29	8.0 / 3.6 - 4.0	
	1800	115/208-230	56C	XS13CA2JCR	$537	DS-3FMP	1.00	12.8	32	6.8/3.3-3.4	
1/2	3600	115/208-230	56C	XS12CA1JCR	$681	DS-3FMP	1.00	13.3	29	8.8/4.1-4.4	
	1800	115/208-230	56C	XS12CA2JCR	$563	DS-3FMP	1.00	13.8	32	9.8/4.9-4.9	
3/4	3600	115/208-230	56C	XS34CA1JCR	$728	DS-3FMP	1.00	13.3	32	10.4 / 5.3-5.2	
	1800	115/208-230	56C	XS34CA2JCR	$630	DS-3FMP	1.00	14.3	32	12.6/6.3-6.3	
1	3600	115/208-230	56C	XS1CA1JCR	$784	DS-3FMP	1.00	14.3	42	12.0/6.3-6.0	
	1800	115/208-230	56C	XS1CA2JCR	$675	DS-3FMP	1.00	14.8	44	14.0/6.9-7.0	

Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/4	1800	115/208-230&110/220	56	XS14CA2J	$482	DS-3FMP	1.00	12.5	32	5.1/2.5-2.5&5.6/2.8	28
	1200	115/230	56	XS14CA3P	$706	DS-3FMP	1.00	13.0	32	6.8/3.4	
1/3	3600	115/208-230	56	XS13CA1J	$560	DS-3FMP	1.00	13.2	29	8.0/3.6-4.0	
	1800	115/208-230	56	XS13CA2J	$512	DS-3FMP	1.00	12.7	32	6.8/3.3-3.4	
	1200	115/230	56	XS13CA3P	$912	DS-3FMP	1.00	12.7	32	7.2/3.6	
1/2	3600	115/208-230	56	XS12CA1J	$608	DS-3FMP	1.00	13.2	29	8.8/4.1-4.4	
	1800	115/208-230	56	XS12CA2J	$563	DS-3FMP	1.00	13.2	32	9.8/4.9-4.9	
	1200	115/230	56H	XS12CA3P	$1,053	DS-3FMP	1.00	14.2	32	10.0/5.0	
3/4	3600	115/208-230	56	XS34CA1J	$608	DS-3FMP	1.00	13.2	32	10.4/5.3-5.2	
	1800	115/208-230	56	XS34CA2J	$630	DS-3FMP	1.00	13.7	32	12.6/6.3-6.3	
1	3600	115/208-230	56	XS1CA1J	$686	DS-3FMP	1.00	14.2	41	12.0/6.3-6.0	
	1800	115/208-230	56H	XS1CA2JH	$714	DS-3FMP	1.00	14.2	32	14.0/6.9-7.0	

Note 28 TENV Enclosure

Painted Washdown Three Phase, Totally Enclosed, C-Face Footed



The Slicker™

APPLICATIONS:

Suitable for food processors, canners, meat packers, bakeries, dairies, drug and cosmetic manufacturers for sanitary, easily cleaned motors.

FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- USDA®† Approved Non-Toxic White Epoxy Paint
- Moisture Resistant Gasketed Conduit Box With NPT Lead Holes
- V-Ring Rotating Shaft Seals
- Full 50 & 60 Hertz Operating Data On Nameplate (180-210 Frame)
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Removable Drain Plugs (180 & 210 Frames)
- Double Contact Sealed Ball Bearings
- Internal Corrosion Protection On Rotor, Stator, Winding & Frame
- Double Dip & Bake On Winding
- 303 Stainless Steel Shaft, F1 Assembly Position
- Stainless Steel Nameplate
- Totally Enclosed Fan Cooled (TEFC) Except Where Noted
- Multiple Stainless Steel T-Type Drains (56 & 140 Frame)
- Refer to Page vii for Suitability of IHP Motors on Variable Frequency Drives
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

C-Face Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1/2	3600	208-230/460	56C	WD12S1AC	$521	DS-3WD	1.15	11.8	32	75.5	1.8-1.6/0.8	28, NNP
	1800	208-230/460	56C	WD12S2AC	$600	DS-3WD	1.15	11.3	26	82.5	1.9-1.8 / 0.9	28, NNP
	1200	208-230/460	56C	WD12S3AC	$768	DS-3WD	1.15	11.3	32	82.5	2.2-2.2/1.1	28, NNP
3/4	3600	208-230/460	56C	WD34S1AC	$588	DS-3WD	1.15	11.8	32	75.5	2.4-2.2 / 1.1	28, NNP
	1800	208-230/460	56C	WD34S2AC	$695	DS-3WD	1.15	12.3	26	82.1	2.6-2.4/1.2	28, NNP
	1200	208-230/460	56C	WD34S3AC	$938	DS-3WD	1.00	12.3	22	82.0	3.2/1.6	28, NNP,LA
1	3600	208-230/460	56C	WD1P1AC	$695	DS-3WD	1.15	12.3	32	77.0	3.4-3.2 / 1.6	28
	1800	208-230/460	143TC	WD1P2A14C	$926	DS-3WD	1.15	12.8	26	85.5	3.4-3.3/1.8	
	1800	208-230/460	56C	WD1P2AC	$870	DS-3WD	1.15	12.3	26	85.5	3.4-3.3/1.8	
	1200	208-230/460	56C	WD1S3AC	$928	DS-3WD	1.15	12.8	32	82.5	3.8-3.8/1.8	28, NNP
1 1/2	3600	208-230/460	56C	WD32P1AC	$761	DS-3WD	1.15	12.8	32	84.0	4.3-4.1/2.1	28
	1800	208-230/460	145TC	WD32P2A14C	$815	DS-3WD	1.00	14.3	26	86.5	4.6-4.4/2.2	28
2	3600	208-230/460	145TC	WD2P1A14C	$780	DS-3WD	1.15	13.9	35	85.5	5.4-4.9/2.5	
	1800	208-230/460	56HC	WD2P2AHC	$991	DS-3WD	1.00	15.0	46	86.5	6.2-6.0/3.0	
	1800	208-230/460	145TC	WD2P2A14C	$1,206	DS-3WD	1.00	14.9	48	86.5	6.2-6.0/3.0	
	1200	208-230/460	184TC	WD2P3DC	$1,950	DS-3WD	1.15	16.8	80	88.5	6.4-6.2/3.1	
3	3600	208-230/460	145TC	WD3P1A14C	$1,229	DS-3WD	1.15	13.9	76	86.5	8.1-7.2/3.6	14
	3600	208-230/460	182TC	WD3P1DC	$1,477	DS-3WD	1.15	18.8	73	88.5	8.1-7.4/3.7	
	1800	208-230/460	182TC	WD3P2DC	$1,477	DS-3WD	1.15	16.8	58	89.5	8.2-7.6/3.8	03
	1200	208-230/460	213TC	WD3P3DC	$2,250	DS-3WD	1.15	19.4	117	90.2	9-8.3/4.2	
5	3600	208-230/460	184TC	WD5P1DC	$1,674	DS-3WD	1.15	18.8	85	89.5	13.3-11.8/5.9	
	1800	208-230/460	184TC	WD5P2DC	$1,581	DS-3WD	1.15	16.8	87	89.5	13.5-12.5/6.2	03
	1200	208-230/460	215TC	WD5P3DC	$2,346	DS-3WD	1.15	20.4	128	89.5	15-14.1/7	
7 1/2	3600	208-230/460	184TC	WD7P1AFC	$2,041	DS-3WD	1.15	18.8	103	90.2	19.7-17.3/8.7	14
	3600	208-230/460	213TC	WD7P1DC	$2,041	DS-3WD	1.15	21.4	137	91.0	19.7-17.4/8.7	
	1800	208-230/460	213TC	WD7P2DC	$1,961	DS-3WD	1.15	19.4	140	91.7	20-18.2/9.1	03
10	3600	208-230/460	215TC	WD10P1DC	$2,283	DS-3WD	1.15	21.4	145	91.0	26.1-23.1/11.6	
	1800	208-230/460	215TC	WD10P2DC	$2,038	DS-3WD	1.15	20.4	128	91.7	26.5-23.9/11.9	03
15	3600	208-230/460	215TC	WD15P1DC	$3,302	DS-3WD	1.15	21.4	154	93.0	38-35/17.4	14

Note 03 60/50 Hertz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate
Note 14 NEMA®† Design A
Note 28 TENV Enclosure
Note LA Limited Availability
Note NNP Non-NEMA®† Premium

Painted Washdown Three Phase, Totally Enclosed C-Face Footless



The Slicker™

APPLICATIONS:

Suitable for food processors, canners, meat packers, bakeries, dairies, drug and cosmetic manufacturers for sanitary, easily cleaned motors.

FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- BISSC®† Certified, Smooth Design For Easy Cleaning
- USDA®† Approved Non-Toxic White Epoxy Paint
- Moisture Resistant Gasketed Conduit Box With NPT Lead Holes
- V-Ring Rotating Shaft Seals
- Full 50 & 60 Hertz Operating Data On Nameplate (180-210 Frame)
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Removable Drain Plugs (180 & 210 Frames)
- Double Contact Sealed Ball Bearings
- Internal Corrosion Protection On Rotor, Stator, Winding & Frame
- Double Dip & Bake On Winding
- 303 Stainless Steel Shaft, F1 Assembly Position
- Stainless Steel Nameplate
- Totally Enclosed Fan Cooled (TEFC) Except Where Noted
- Multiple Stainless Steel T-Type Drains (56 & 140 Frame)
- Refer to Page vii for Suitability of IHP Motors on Variable Frequency Drives
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

C-Face Footless

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1/3	1800	208-230/460	56C	WD13S2ACR	$540	DS-3WD	1.35	11.3	26	80.0	1.9-1.8/0.9	28,NNP
1/2	1800	208-230/460	56C	WD12S2ACR	$596	DS-3WD	1.15	11.3	26	-	1.9-1.8/0.9	28,NNP
3/4	1800	208-230/460	56C	WD34S2ACR	$689	DS-3WD	1.15	12.3	26	82.5	2.6-2.4/1.2	28,NNP
1	3600	208-230/460	56C	WD1P1ACR	$590	DS-3WD	1.15	12.3	32	77.0	3.4-3.2 / 1.6	28
	1800	208-230/460	143TC	WD1E2A14CR	$722	DS-3WD	1.15	12.8	26	82.5	3.4-3.3/1.7	28,NNP,LA
	1800	208-230/460	143TC	WD1P2A14CR	$920	DS-3WD	1.15	12.8	26	85.5	3.4-3.3/1.8	
	1800	208-230/460	56C	WD1P2ACR	$864	DS-3WD	1.15	12.3	26	85.5	3.4-3.3/1.8	28
1 1/2	3600	208-230/460	56C	WD32P1ACR	$770	DS-3WD	1.15	12.8	32	84.0	4.3-4.1/2.1	28
	1800	208-230/460	56C	WD32P2ACR	$751	DS-3WD	1.00	14.4	26	86.5	4.6-4.4/2.2	28
	1800	230/460	145TC	WD32P2A14CR	$751	DS-3WD	1.00	14.4	26	86.5	4.4/2.2	28
2	3600	208-230/460	56C	WD2S1ACR	$896	DS-3WD	1.15	12.8	32	80.0	6.0-5.4/2.7	NNP,LA
	1800	208-230/460	145TC	WD2P2A14CR	$1,287	DS-3WD	1.00	14.4	26	86.5	6.2-6.0/3.0	
	1800	208-230/460	56C	WD2P2ACR	$985	DS-3WD	1.00	14.9	46	86.5	6.2-6.0/3.0	
3	3600	208-230/460	56C	WD3P1ACR	$1,185	DS-3WD	1.15	14.4	32	86.5	7.9-6.7/3.4	
	1800	208-230/460	145TC	WD3E2A14CR	$1,055	DS-3WD	1.00	14.9	38	87.5	9.5-9.2/4.6	28,NNP,LA
	1800	208-230/460	182TC	WD3P2DCR	$1,477	DS-3WD	1.15	16.8	58	89.5	8.2-7.6/3.8	03
5	1800	208-230/460	184TC	WD5P2DCR	$1,581	DS-3WD	1.15	16.8	87	89.5	13.5-12.5/6.2	03
7 1/2	1800	208-230/460	213TC	WD7P2DCR	$1,961	DS-3WD	1.15	19.4	117	91.7	20-18.2/9.1	03
10	1800	208-230/460	215TC	WD10P2DCR	$2,038	DS-3WD	1.15	20.4	128	91.7	26.5-23.9/11.9	03

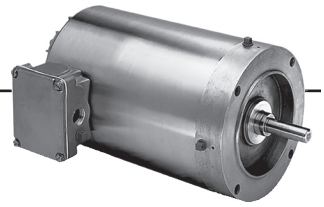
Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 28 TENV Enclosure

Note LA Limited Availability

Note NNP Non-NEMA®† Premium

Paint Free Washdown Three Phase, Totally Enclosed, C-Face



APPLICATIONS:

Suitable for food processors, canners, meat packers, bakeries, dairies, drug and cosmetic manufacturers for sanitary, easily cleaned motors.

FEATURES:

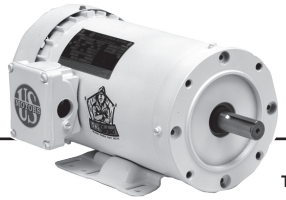
- INVERTER GRADE® INSULATION SYSTEM (MEETS NEMA®† MG-1 PART 31)
- VBXX®† Bearing Isolators By Inpro/Seal®† On Drive End (Both Ends On 180-210 Frame)
- 303 Stainless Steel Shaft
- Multiple Stainless Steel T-type drains
- Double Contact Sealed Ball Bearings
- Laser-Etched Oversized Nameplate
- Totally Enclosed Fan Cooled (TEFC) Except Where Noted
- RTV-Sealed Lead Exit
- Moisture Resistant Gasketed Conduit Box With NPT Lead Holes
- Stainless Steel Frame
- Easy to Read Connection Leads
- Rust Inhibitor on Rotor
- 40°C Ambient, NEMA®† Design B
- Refer to Page viii for Suitability of IHP Motors on Variable Frequency Drives
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

Footless

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/2	1800	208-230/460	56C	WDP12S2ACR	$766	DS-3WD	1.15	12.8	31	2.0-1.9/0.9	28,NNP
	1200	208-230/460	56C	WDP12S3DCR	$784	DS-3WD	1.15	12.8	32	2.2-2.2/1.1	28,NNP
3/4	1800	208-230/460	56C	WDP34S2ACR	$887	DS-3WD	1.15	12.8	51	2.8-2.7/1.3	28,NNP
1	1800	208-230/460	145TC	WDP1P2ACR	$1,160	DS-3WD	1.15	14.3	43	3.5-3.4/1.7	28
	1800	208-230/460	56C	WDP1P2DFCR	$1,102	DS-3WD	1.15	14.3	30	3.5-3.4/1.7	
	1200	208-230/460	56C	WDP1S3DCR	$964	DS-3WD	1.15	13.8	32	4.7-4.8/2.4	28,NNP,LA
1 1/2	1800	208-230/460	56C	WDP32P2DFCR	$1,152	DS-3WD	1.00	14.3	50	4.9-4.8/2.4	
2	1800	208-230/460	145TC	WDP2P2ACR	$1,490	DS-3WD	1.00	14.9	51	6.2-6.0/3.0	

Note 28 TENV Enclosure
Note LA Limited Availability
Note NNP Non-NEMA®† Premium

Painted Washdown Single Phase, Totally Enclosed, C-Face



The Slicker™

APPLICATIONS:

Suitable for food processors, canners, meat packers, bakeries, dairies, drug and cosmetic manufacturers for sanitary, easily cleaned motors.

FEATURES:

- Class F Insulation
- USDA®† Approved Non-Toxic White Epoxy Paint
- V-Ring Rotating Lip Seal On Shaft End
- F1 Assembly Position
- Double Contact Sealed Ball Bearings
- Reversible Rotation
- Internal Corrosion Protection On Rotor, Stator, Winding & Frame
- Stationary Grease Seal On Both Ends
- 303 Stainless Steel Shaft
- Moisture Resistant Gasketed Conduit Box With NPT Lead Holes
- Totally Enclosed Fan Cooled (TEFC) Except Where Noted
- Multiple Stainless Steel T-type Drains
- Automatic Reset Thermal Overload Protector on Yoke Mount Fan Motors
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/2	3600	115/208-230	56C	WD12C1JC	$523	DS-3WD	1.15	11.8	32	7.3/3.9-3.7	28
	1800	115/208-230	56C	WD12C2JC	$537	DS-3WD	1.15	12.8	26	9.5/4.6-4.8	25
3/4	3600	115/208-230	56C	WD34C1JC	$538	DS-3WD	1.15	12.3	30	9.7/5.3-4.9	28
	1800	115/208-230	56C	WD34C2JC	$611	DS-3WD	1.15	13.3	32	12.8/6.4-6.5	
1	3600	115/208-230	56C	WD1C1JC	$583	DS-3WD	1.15	13.3	32	13.6/6.9-6.8	
	1800	115/208-230	56HC	WD1C2JHC	$702	DS-3WD	1.15	13.8	28	15.4/7.8-7.6	
1 1/2	3600	115/208-230	56HC	WD32C1JHC	$768	DS-3WD	1.15	13.8	32	14.6/8.1-7.4	CSCR,25
	1800	115/208-230	56HC	WD32C2JHC	$896	DS-3WD	1.15	15.3	32	14.4/8.0-7.2	CSCR
2	1800	115/230	56HC	WD2C2PHC	$1,052	DS-3WD	1.15	15.3	48	19.6/9.8	CSCR,25

Footless

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/2	3600	115/208-230	56C	WD12C1JCR	$576	DS-3WD	1.15	11.8	32	7.3/3.9-3.7	28
	1800	115/208-230	56C	WD12C2JCR	$663	DS-3WD	1.15	12.8	32	8.8/4.3-4.4	28
3/4	1800	115/208-230	56C	WD34C2JCR	$748	DS-3WD	1.15	13.8	41	7.8/4.3-3.9	CSCR,28
1	1800	115/208-230	56C	WD1C2JCR	$848	DS-3WD	1.00	14.3	32	10.3/5.5-5.2	CSCR
2	1800	115/230	56C	WD2C2JCR	$1,059	DS-3WD	1.15	15.3	48	19.6/9.8	CSCR

Permanent Split Capacitor, Yoke Mount, Non-Oscillating Totally Enclosed Air Over (TEAO) Fan Motors

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/4	1800	115/230	56YZ	WD14AA2PZ7	$426	DS-3WD	1.00	10.9	19	3.5/1.7	24
1/3	1800	115/230	56YZ	WD13AA2PZ7	$448	DS-3WD	1.00	10.9	16	4.9/2.5	24
1/2	1800	115/230	56YZ	WD12AA2PZ7	$481	DS-3WD	1.00	11.9	32	5.9/2.9	24

Note 24 Automatic Reset Thermal Protector Overload
Note 25 Non-protected
Note 28 TENV Enclosure
Note CSCR Capacitor Start /Capacitor Run

General Purpose Three Phase, Open Drip Proof (ODP) NEMA®† Premium Efficient, C-Face



APPLICATIONS:

For use on pumps, fans, compressors, material handling and other general purpose applications where contaminants are minimal.

FEATURES:

- Class F Insulation, Class B Rise At Service Factor On 60 Hertz Sine Wave Power
- Rolled Steel Frame
- Aluminum End Shields 56-250, Cast Iron End Shields 280-440
- Full 50 & 60 Hertz Operating Data On Nameplate (03)
- 40°C Ambient, NEMA® Design B Performance On 60 Hz Sine Wave Power
- Full HP @ 50 Hz
- Regreasable Bearings 210 Frame & Up
- Double Shielded Bearings 48-400
- Suitable For Wye-Delta Start 250 Frame & Larger
- F1 Assembly Position
- Lifting Provisions 210 Frame & Up
- Conversion Kits: Drip Cover Kits (140-320 Frame)
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

Footed

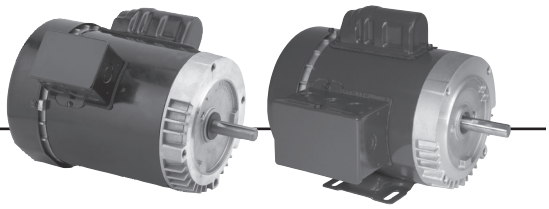
HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1	1800	208-230/460	56HC	D1P2AHC	$433	DS-3E	1.15	12.4	26	83.5	3.2-3.0/1.5	
	1800	208-230/460	143TC	D1P2DC	$474	DS-3E	1.15	13.3	30	85.5	3.2-3.1/1.5	
1 1/2	3600	208-230/460	56HC	D32P1AHC	$500	DS-3E	1.15	11.9	32	84.0	4.7-4.4/ 2.2	
	1800	208-230/460	145TC	D32P2DC	$499	DS-3E	1.15	13.3	35	86.5	4.4-4.2/2.1	
2	3600	208-230/460	56HC	D2P1AHC	$494	DS-3E	1.15	11.9	32	85.5	6.0-5.4/2.7	
	3600	208-230/460	145TC	D2P1DC	$551	DS-3E	1.15	12.8	35	85.5	5.5-5/2.5	
	1800	208-230/460	145TC	D2P2DC	$548	DS-3E	1.15	12.8	35	86.5	5.9-5.6/2.8	
3	3600	208-230/460	145TC	D3P1DC	$566	DS-3E	1.15	13.3	35	85.5	8.3-7.4/3.7	
	1800	208-230/460	182TC	D3P2DC	$582	DS-3E	1.15	14.3	50	90.2	8.3-7.6/3.8	
5	3600	208-230/460	182TC	D5P1DC	$603	DS-3E	1.15	14.3	50	86.5	13.9-12.9/6.5	
	1800	208-230/460	184TC	D5P2DC	$627	DS-3E	1.15	15.8	60	89.5	13.7-12.4/6.2	
7 1/2	3600	208-230/460	184TC	D7P1DC	$942	DS-3E	1.15	15.8	60	88.5	20.3-18.1/9	
	1800	208-230/460	213TC	D7P2DC	$917	DS-3E	1.15	16.8	100	91.0	20.2-18.5/9.3	
10	3600	208-230/460	213TC	D10P1DC	$1,101	DS-3E	1.15	16.8	100	90.2	27.1-24.3/12.2	
	1800	208-230/460	215TC	D10P2DC	$1,116	DS-3E	1.15	18.3	110	92.4	26.3-23.8/11.9	
15	3600	208-230/460	215TC	D15P1DC	$1,513	DS-3E	1.15	18.3	100	90.2	40-36/18	
	1800	230/460	254TC	D15P2EC	$1,526	DS-3E	1.15	19.6	150	93.0	37/18.3	02,03
20	3600	230/460	254TC	D20P1EC	$1,831	DS-3E	1.15	19.6	150	91.7	46/23.1	02,03
	1800	230/460	256TC	D20P2EC	$1,957	DS-3E	1.15	20.8	160	93.0	47/23.6	
25	3600	230/460	256TC	D25P1EC	$2,394	DS-3E	1.15	20.8	160	91.7	57/28.7	02,03
	1800	230/460	284TC	D25P2EC	$2,446	DS-3PO	1.15	25.6	225	93.6	58.0/29.2	
30	3600	230/460	284TSC	D30P1ESC	$2,861	DS-3PO	1.15	24.3	225	91.7	69.0/34	
	1800	208-230/460	286TC	D30P2DC	$2,861	DS-3E	1.15	24.9	350	94.1	77-69/34	02,03
40	3600	230/460	286TSC	D40P1ESC	$3,115	DS-3PO	1.15	24.3	250	92.4	90.0/45	
	1800	208-230/460	324TC	D40P2DC	$3,424	DS-3E	1.15	27.3	385	94.1	102-91/46	02,03
50	3600	208-230/460	324TSC	D50P1DSC	$3,778	DS-3E	1.15	25.8	385	93.0	130-117/59	02,03
	1800	208-230/460	326TC	D50P2DC	$3,921	DS-3E	1.15	27.3	460	94.5	126-113/56	02,03

Footless

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1/4	1800	208-230/460	56C	D14P2ACR	$281	DS-3E	1.35	10.9	26	69.5	1.1-1.2/0.6	
1/3	3600	575	56C	D13P1GCR	$305	DS-0	1.15	11.9	35	73.3	0.68	
	1800	208-230/460	56C	D13P2ACR	$299	DS-3E	1.35	10.9	26	73.4	1.4-1.4/0.7	
	1800	575	56C	D13P2GCR	$299	DS-0	1.15	11.39	26	74.8	0.5	
1/2	1800	208-230/460	56C	D12P2ACR	$342	DS-3E	1.25	11.4	26	78.2	1.98-1.9/.98	
3/4	1800	208-230/460	56C	D34P2ACR	$381	DS-3E	1.25	11.9	26	81.1	2.8-2.7/1.4	
1 1/2	3600	208-230/460	56C	D32P1ACR	$502	DS-3E	1.15	11.9	32	84.0	4.7-4.4/2.2	
	1800	208-230/460	56C	D32P2ACR	$499	DS-3E	1.15	13.9	36	86.5	4.2-4.0/2.0	
2	3600	208-230/460	56C	D2P1ACR	$548	DS-3E	1.15	11.9	32	85.5	6.0-5.4/2.7	
	1800	208-230/460	56C	D2P2ACR	$545	DS-3E	1.15	12.9	26	86.5	6.1-6.2/3.1	

Note 02 Suitable for Wye-Delta start on voltages shown
Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

General Purpose Single Phase, Capacitor Start Totally Enclosed Fan Cooled (TEFC) C-Face



APPLICATIONS:

For use on air compressors, pumps, conveyors, blowers and general industrial equipment.

FEATURES:

- Double Shielded Ball Bearings
- Class B Insulation
- Continuous Duty
- 40°C Ambient
- Capacitor Start, Induction Run
- F1 Assembly
- Reversible Rotation
- 50/60 Hz Motors Have 1.0 S.F. on 50 Hz
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

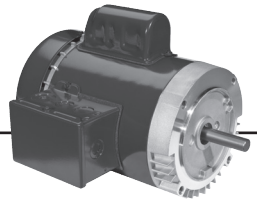
Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/4	1800	115/208-230	56C	T14C2JC	$390	DS-3F	1.15	11.1	22	6.5/2.8-3.2	25
	1200	115/208-230	56C	T14C3JCR	$314	DS-3F	1.15	11.4	32	6.4/3.0-3.2	25
1/3	1800	115/208-230	56C	T13C2JC	$380	DS-3F	1.15	11.0	19	6.6/3-3.3	25
1/2	1800	100-120 & 200-240	56C	6212	$565	DS-3FMP	1.25	12.0	25	6.3-5.6/3.1-2.8	18,24,98
	1800	115/208-230	56C	T12C2JC	$482	DS-3FMP	1.15	11.4	32	9.0/4.3-4.5	25
3/4	3600	115/208-230	56C	T34C1JC	$417	DS-3FMP	1.15	11.9	32	10.4/.5.3-5.2	25
	1800	100-120 & 200-240	56C	6214	$691	DS-3FMP	1.25	12.0	32	9.2-8.4/4.6-4.2	24
	1800	115/208-230	56C	T34C2JC	$585	DS-3FMP	1.15	11.9	32	11.4/5.7-5.7	25
1	3600	115/208-230	56C	T1C1JC	$489	DS-3FMP	1.15	12.4	26	13.6/6.9-6.8	25
	1800	100-120 & 200-240	56C	T1CA2ZC	$730	DS-3FMP	1.15	13.4	30	11.0-9.2/5.5-4.7	
	1800	100-120 & 200-240	56C	T1CM2ZC	$760	DS-3FMP	1.15	13.4	38	11.0-9.2/5.5-4.7	
	1800	115/208-230	143TC	T1C2J14C	$621	DS-3F	1.15	12.4	32	14.0/6.9-7.0	25
	1800	115/208-230	56HC	T1C2JHC	$621	DS-3FMP	1.15	12.4	32	14.0/6.9-7.0	25
1 1/2	3600	115/208-230	56HC	T32C1JHC	$603	DS-3FMP	1.15	12.9	42	14.6/8.1-7.4	25
	1800	115/208-230	145TC	T32C2J14C	$731	DS-3F	1.15	13.9	45	14.4/8.0-7.2	25
	1800	115/208-230	56HC	T32C2JHC	$736	DS-3FMP	1.15	13.9	41	14.4/8.0-7.2	25
2	3600	115/208-230	145TC	T2C1J14C	$778	DS-3FMP	1.15	13.4	43	19.5/10.8-9.7	25
	1800	115/208-230	145TC	T2C2J14C	$846	DS-3FMP	1.15	13.9	46	18.9/10.3-9.4	18,25
	1800	115/208-230	56HC	T2C2JHC	$846	DS-3FMP	1.15	13.9	43	18.9/10.3-9.4	18,25
5	3600	230	184TC	T5C1K18C	$1,397	DS-3SP	1.00	17.3	91	19.6	18,25

Note 18 Incorporates Run Capacitor
Note 24 Automatic Reset Thermal Protector Overload
Note 25 Non-protected
Note 98 50/60 Hertz

General Purpose Single Phase, Capacitor Start
Totally Enclosed Fan Cooled (TEFC) C-Face

(continued)



Footless

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/4	1800	115/208-230	56C	T14C2JCR	$330	DS-3F	1.15	11.0	22	6.5/2.8-3.2	25
1/3	1800	115/208-230	56C	T13C2JCR	$380	DS-3F	1.15	11.0	22	6.6/3.0-3.3	25
	1800	115/208-230	56C	T13CA2JCR	$380	DS-3FMP	1.15	11.0	22	6.6/3.0-3.3	24
	1800	115/230	42CZ	T13C2P42ZCR	$394	DS-3FMP	1.00	11.6	21	6.2/3.1	25
1/2	3600	115/208-230	56C	T12CA1JCR	$358	DS-3FMP	1.15	12.0	18	8.0/3.8-4.0	24
	1800	100-120 & 200-240	56C	T12C2ZCR	$592	DS-3FMP	1.25	12.0	25	6.3-5.6/3.1-2.8	18,25,98
	1800	115/208-230	56C	T12C2JCR	$439	DS-3FMP	1.15	12.4	32	9.0/4.3-4.5	25
	1800	115/208-230	56C	T12CA2JCR	$496	DS-3FMP	1.15	11.4	32	9.0/4.3-4.5	24
	1800	115/208-230	56C	T12CM2JCR	$462	DS-3FMP	1.15	11.4	32	9.0/4.3-4.5	23
	1200	115/208-230	56C	T12C3JCR	$828	DS-3FMP	1.15	12.4	32	10.4/5.1-5.2	25
3/4	3600	115/208-230	56C	T34CA1JCR	$451	DS-3FMP	1.15	11.9	32	10.4/5.3-5.2	24
	1800	100-120 & 200-240	56C	T34C2ZCR	$699	DS-3FMP	1.25	12.4	23	9.2-8.4/4.6-4.2	18,25,98
	1800	115/208-230	56C	T34C2JCR	$527	DS-3FMP	1.15	11.9	32	11.4/5.7-5.7	25
	1800	115/208-230	56C	T34CA2JCR	$582	DS-3FMP	1.15	11.9	32	11.4/5.7-5.7	24
	1800	115/208-230	56C	T34CM2JCR	$551	DS-3FMP	1.15	11.9	32	11.4/5.7-5.7	23
	1200	115/208-230	56C	T34C3JCR	$932	DS-3FMP	1.15	13.4	28	10.6/5.4-5.3	18,25
1	3600	115/208-230	56C	T1CA1JCR	$524	DS-3FMP	1.15	12.4	32	13.6/6.9-6.8	24
	1800	115/208-230	143TC	T1C2J14CR	$638	DS-3SP	1.15	12.4	32	14.0/6.9-7.0	25
	1800	115/208-230	143TC	T1CA2J14CR	$677	DS-3SP	1.15	12.4	32	14.0/6.9-7.0	24
	1800	115/208-230	143TC	T1CM2J14CR	$700	DS-3SP	1.15	12.4	32	14.0/6.9-7.0	23
	1800	115/208-230	56C	T1C2JCR	$571	DS-3FMP	1.15	12.4	32	14.0/6.9-7.0	25
	1800	115/208-230	56C	T1CA2JCR	$610	DS-3FMP	1.15	12.4	32	14.0/6.9-7.0	24
	1200	115/208-230	56C	T1C3JCR	$1,011	DS-3FMP	1.15	13.9	44	12.6/6.6-6.3	25
1 1/2	3600	115/208-230	143TC	T32C1J14CR	$637	DS-3SP	1.15	12.9	32	14.6/8.1-7.4	25
	3600	115/208-230	56C	T32CA1JCR	$637	DS-3FMP	1.15	12.9	32	14.6/8.1-7.4	24
	1800	115/208-230	145TC	T32C2J14CR	$723	DS-3SP	1.15	13.9	47	14.4/8.0-7.2	25
	1800	115/208-230	56C	T32C2JCR	$650	DS-3FMP	1.15	13.9	31	14.4/8.0-7.2	25
	1800	115/208-230	56C	T32CA2JCR	$689	DS-3FMP	1.15	13.9	31	14.4/8.0-7.2	24
	1800	115/208-230	56C	T32CM2JCR	$712	DS-3FMP	1.15	13.9	31	14.4/8.0-7.2	23
2	3600	115/208-230	145C	T2C1J14CR	$813	DS-3SP	1.15	12.9	34	19.5/10.8-9.7	25
	1800	115/208-230	145TC	T2C2J14CR	$969	DS-3SP	1.15	13.9	46	18.9/10.3-9.4	25
	1800	115/208-230	145TC	T2CA2J14CR	$1,008	DS-3SP	1.00	14.4	40	18.9/10.3-9.4	24
	1800	115/208-230	56C	T2C2JCR	$739	DS-3FMP	1.15	13.9	31	18.9/10.3-9.4	25
	1800	115/208-230	56C	T2CA2JCR	$778	DS-3FMP	1.00	14.4	31	18.9/10.3-9.4	24
	1800	115/208-230	56C	T2CM2JCR	$801	DS-3FMP	1.00	13.9	31	18.9/10.3-9.4	23

Note 18 Incorporates Run Capacitor
Note 23 Manual Reset Thermal Protector Overload
Note 24 Automatic Reset Thermal Protector Overload
Note 25 Non-protected
Note 98 50/60 Hertz

General Purpose Single Phase
Open Drip Proof (ODP) C-Face, Capacitor Start



APPLICATIONS:

For air compressors, commercial duty pumps, conveyors, blowers and general industrial equipment.

FEATURES:

- Double Shielded Ball Bearings - Locked Drive End Bearings
- 50/60 Hz Motors Have 1.0 S.F. on 50 Hz
- Class B Insulation
- Continuous Duty
- 40°C Ambient
- F1 Assembly
- Reversible Rotation
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/2	1800	115/230	56C	D12CP2PC	$567	DS-3FMP	1.25	9.9	23	5.0/2.6	25
3/4	1800	115/230	56H	D34CP2PHC	$692	DS-3FMP	1.25	11.9	29	7.0/3.5	25
1	3600	115/230	56HC	D1CP1PHC	$516	DS-3FMP	1.25	12.9	29	9.3/4.3	25
	1800	115/208-230	143TC	D1C2J14C	$636	DS-3F	1.15	11.9	32	14.8/7.5-7.3	25
	1800	115/230	56HC	D1CP2PHC	$795	DS-3FMP	1.15	12.4	31	8.8/4.4	25
1 1/2	3600	115/208-230	56HC	D32C1JHC	$508	DS-3FMP	1.15	11.9	32	18.6/9.8-9.3	25,LA
	1800	115/230	56HC	D32CP2PHC	$836	DS-3FMP	1.15	13.4	37	13.4/6.7	25
2	1800	115/230	56HC	D2CP2PHC	$977	DS-3FMP	1.15	13.4	46	17.0/8.5	25

Footless

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/4	1200	115	56C	D14B3NCR	$326	DS-3FMP	1.35	10.9	20	5.5	25
1/3	1800	115/230	56C	D13CP2PCR	$423	DS-3FMP	1.35	10.8	18	3.8/1.9	25
1/2	1800	115/230	56C	D12CP2PCR	$497	DS-3FMP	1.25	10.9	22	5.0/2.6	25
	1800	115/230	56C	D12CPA2PCR	$570	DS-3F	1.25	9.9	22	5.0/2.6	24
3/4	3600	115/208-230	56C	D34CA1JCR	$388	DS-3FMP	1.25	11.4	32	10.4/5.3-5.2	24,LA
	3600	115/230	56C	D34CPM1PCR	$516	DS-3FMP	1.25	11.4	24	7.0/3.6	23
	1800	115/230	56C	D34CP2PCR	$610	DS-3FMP	1.25	11.9	29	7.0/3.5	25
	1800	115/230	56C	D34CPA2PCR	$690	DS-3FMP	1.25	13.0	29	7.0/3.5	24
1	3600	115/230	56C	D1CPA1PCR	$560	DS-3FMP	1.25	12.9	29	9.3/4.3	24
	1800	115/230	56C	D1CP2PCR	$662	DS-3FMP	1.15	13.0	31	8.8/4.4	25
1 1/2	1800	115/230	56H	D32CP2PCR	$693	DS-3FMP	1.15	12.9	37	13.4/6.7	25
2	1800	115/230	56C	D2CP2PCR	$990	DS-3FMP	1.15	13.4	42	17.0/8.5	25

Note 23 Manual Reset Thermal Protector Overload
Note 24 Automatic Reset Thermal Protector Overload
Note 25 Non-protected
Note LA Limited Availability

Standalone Inverter Duty Motors and SynRA™

Horsepower: 1/4 – 350 HP

Phase: Three Phase

RPM: 1200, 1800 and 3600 RPM

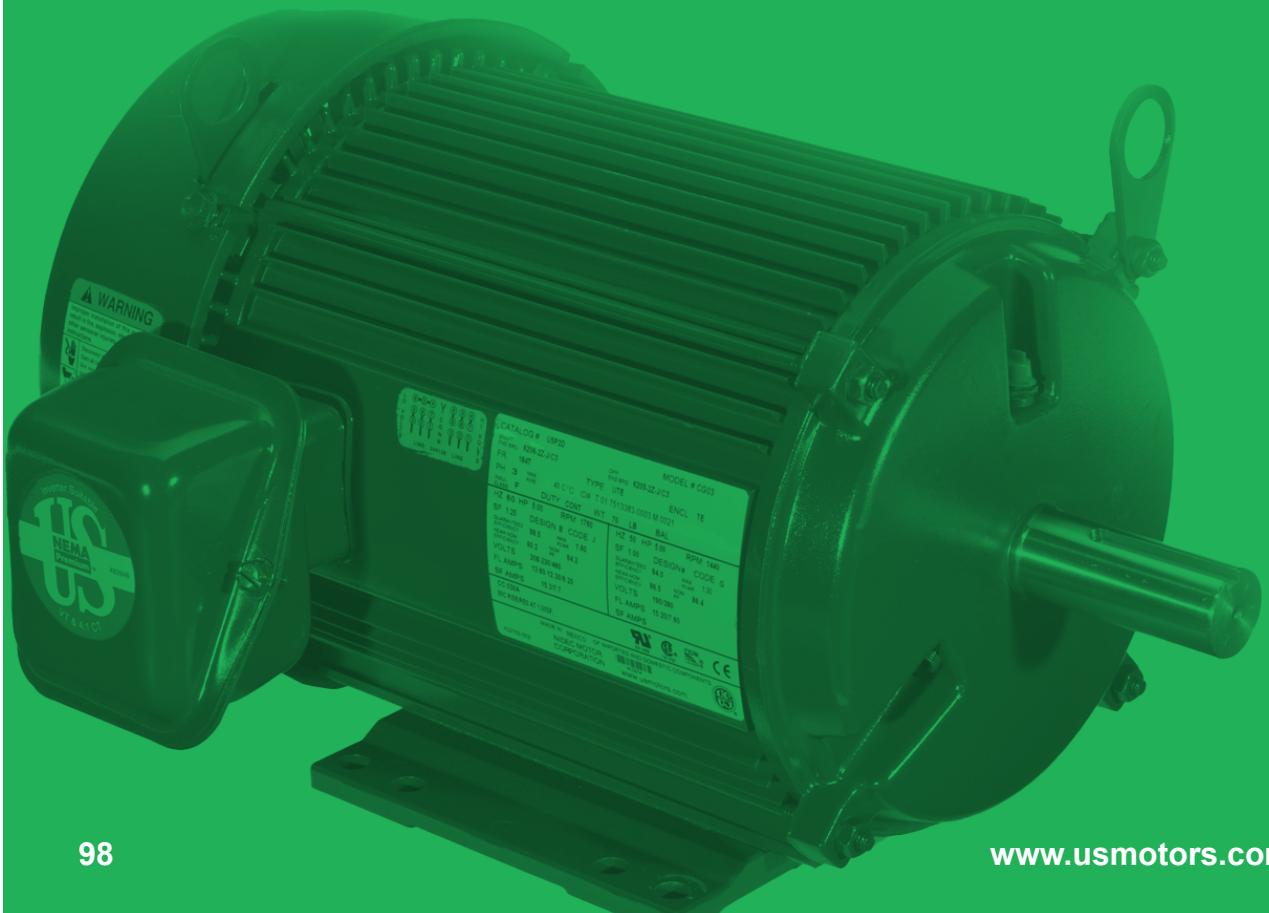
Voltage: 230/460, 460 and 575

Speed Range:
- 20:1 (3-60 Hz) Variable Torque/5:1 (12-60 Hz) Constant Torque
- 20:1 (3-60 Hz) Constant Torque
- 5000:1 Constant Torque Speed Range with ACCU-Torq® Motors

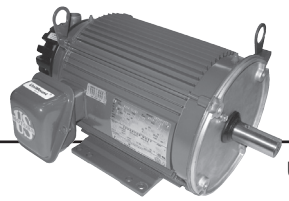
Enclosure:
- Open Drip Proof (ODP)
- Totally Enclosed Blower Cooled (TEBC)
- Totally Enclosed Fan Cooled (TEFC)
- Totally Enclosed Non-Ventilated (TENV)

Mounting: Footed and C-Face

Conversion Kits:
Available on most ratings
- All Cast Iron Upgrade
- C&D Flanges
- Canopy Kits
- Brakes
- Encoders



ACCU-Torq® Totally Enclosed, Non-Ventilated (TENV) Vector Duty, C-Face, 5000:1 Constant Torque



UTNX

APPLICATIONS:

For use with inverters and in vector drive applications. Typical applications include machine tools, material handling, packaging machines, test equipment, cranes and hoists, and other industrial machinery.

FEATURES:

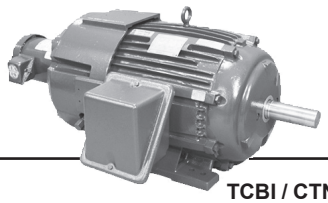
- Constant Torque Operation from Zero to Base Speed with Vector Drives
- Constant HP Operation to Twice Base Speed (Except Where Noted)
- Continuous Duty at 40°C Ambient
- NEMA® Design A
- Class F Insulation
- Normally Closed Thermostats Standard (One Per Phase)
- Shaft Grounding Ring Option on All Ratings
- F1 Standard, Field Convertible to F2 for 180 Frame and Above
- Removable Base 180 Frame and Above
- Steel 56-140 Frame; Aluminum 180 Frame & Above
- Encoder and Brake Provision on All Ratings
- D-Flange Convertible Kit
- Three Year Warranty

HP	Base RPM	Max RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	"C" Dim. (inches)	Full Load Amps	Rated Torque lb.-in.	Ship Wt. (lbs.)	Notes
1/4	1800	3600	230/460	56C	UN14T2BC	$504	DS-VST	13.0	1/0.5	8.4	30	
	1800	3600	230/460	56C	UN14T2BC-HS35A	$1,804	DS-VST	16.59	1/0.5	8.4	30	HS35A
1/3	1800	3600	230/460	56C	UN13T2BC	$528	DS-VST	14.5	1.1/0.6	12.0	40	
1/2	1800	3600	230/460	56C	UN12T2BC	$611	DS-VST	14.5	1.5/0.8	18.0	45	
	1800	3600	230/460	56C	UN12T2BC-HS35A	$1,911	DS-VST	16.59	1.5/0.8	18	30	HS35A
	1800	3600	575	56C	UN12T2GC	$611	DS-VST	14.5	0.6	18.0	45	
1	1800	3600	230/460	143TC	UN1T2BC	$722	DS-VST	14.6	3.2/1.6	36.0	30	
	1800	3600	230/460	143TC	UN1T2BC-HS35A	$2,022	DS-VST	16.73	3/1.5	36	30	HS35A
	1800	3600	230/460	56C	UN1T2BFC	$722	DS-VST	14.5	3.2/1.6	36.0	45	
	1800	3600	230/460	56C	UN1T2BFC-HS35A	$2,022	DS-VST	17.65	5.6/2.8	72.0	30	HS35A
	1800	3600	575	56C	UN1T2GFC	$722	DS-VST	14.5	1.3	36.0	45	
	1200	2400	230/460	145TC	UN1T3BC	$788	DS-VST	14.6	3.7/1.8	55.2	35	
1 1/2	1800	3600	230/460	145TC	UN32T2BC	$819	DS-VST	14.6	4.7/2.3	54.0	35	
	1800	3600	230/460	145TC	UN32T2BC-HS35A	$2,119	DS-VST	16.73	4.7/2.3	54	35	HS35A
	1800	3600	575	145TC	UN32T2GC	$780	DS-VST	14.6	2	54.0	35	
2	1800	3600	230/460	145TC	UN2T2BC	$877	DS-VST	15.6	5.6/2.8	72.0	35	
	1800	3600	230/460	145TC	UN2T2BC-HS35A	$2,177	DS-VST	17.65	5.6/2.8	72	60	HS35A
	1800	3600	575	145TC	UN2T2GC	$877	DS-VST	15.6	2.2	72.0	35	
	1200	2400	230/460	184TC	UN2T3BC	$1,212	DS-VST	16.8	6.2/3.1	108.0	75	
3	1800	3600	230/460	182TC	UN3T2BC	$983	DS-VST	16.0	10.1/5	106.8	65	
	1800	3600	230/460	182TC	UN3T2BC-HS35A	$2,283	DS-VST	18.07	10.1/5	106.8	60	HS35A
	1800	3600	575	182TC	UN3T2GC	$983	DS-VST	16.0	4.1	106.8	65	
	1200	2400	230/460	213TC	UN3T3BC	$1,502	DS-VST	18.5	9.1/4.5	160.8	116	
5	1800	3600	230/460	184TC	UN5T2BC	$1,143	DS-VST	16.8	13.9/7	177.6	83	
	1800	3600	230/460	184TC	UN5T2BC-HS35A	$2,443	DS-VST	18.82	13.6/6.8	177.6	60	HS35A
	1800	3600	575	184TC	UN5T2GC	$1,143	DS-VST	16.8	5.6	177.6	83	
	1200	2400	230/460	215TC	UN5T3BC	$2,150	DS-VST	20.0	15.9/7.9	267.6	149	
7 1/2	1800	3600	230/460	213TC	UN7T2BC	$1,563	DS-VST	20.0	18.8/9.4	266.4	135	
	1800	3600	230/460	213TC	UN7T2BC-HS35A	$2,863	DS-VST	22.13	18.8/9.4	266.4	105	HS35A
	1800	3600	575	213TC	UN7T2GC	$1,563	DS-VST	20.0	7.5	266.4	135	
	1200	2400	230/460	254TC	UN7T3BC	$2,870	DS-VST	25.0	19.8/9.9	398.4	211	
10	1800	3600	230/460	215TC	UN10T2BC	$1,888	DS-VST	23.0	25.3/12.7	355.3	178	
	1800	3600	230/460	215TC	UN10T2BC-HS35A	$3,188	DS-VST	25.13	25.3/12.7	355.2	120	HS35A
	1800	3600	575	215TC	UN10T2GC	$1,888	DS-VST	23.0	10	355.3	144	
	1200	2400	230/460	256TC	UN10T3BC	$3,466	DS-VST	25.3	25.3/12.7	540.0	266	
15	1800	3600	230/460	254TC	UN15T2BC	$2,607	DS-VST	26.3	36/17.8	530.4	255	
	1800	3600	230/460	254TC	UN15T2BC-HS35A	$3,907	DS-VST	28.44	36/17.8	530.4	120	HS35A
	1800	3600	575	254TC	UN15T2GC	$2,607	DS-VST	26.3	14.2	530.4	255	
20	1800	3600	230/460	256TC	UN20T2BC	$3,213	DS-VST	26.3	50/24.8	706.8	266	
	1800	3600	230/460	256TC	UN20T2BC-HS35A	$4,513	DS-VST	28.44	50/24.8	706.8	230	HS35A
	1800	3600	575	256TC	UN20T2GC	$3,213	DS-VST	26.3	19.8	706.8	266	LA

Note HS35A Includes Avtron HS35A Encoder

Note LA Limited Availability

ACCU-Torq® Totally Enclosed Blower Cooled (TEBC) & Totally Enclosed, Non-Ventilated (TENV) Vector Duty, 5000:1 Constant Torque



TCBI / CTNI

APPLICATIONS:

For packaging machinery, extruders, winders, process lines, cranes & hoists, slitters or other inverter powered applications having constant torque requirements at or near zero speed. ACCU-Torq® TEBC motors are used in variable frequency drive applications requiring full rated torque at zero speed utilizing Closed- or Open-Loop (Sensorless Vector) controls. The cast iron construction makes this motor an ideal choice for process lines, chemical plants, paper mills or any other severe duty environment.

FEATURES:

- INVERTER GRADE® Insulation System (Meets NEMA®† MG-1 Part 31)
- Premium Efficient
- Cast Iron Frame, Cast Iron End Brackets
- Corrosion Resistant Mill & Chemical Duty Paint
- F-1 Standard, Field Convertible to F-2
- Stainless Steel Nameplate & Zinc Plated Hardware
- Shaft Slinger on Pulley End for IP54 Protection
- Continuous Duty at 40°C Ambient
- Regreasable Bearings, Lifting Provisions 180 Frame & Up
- Open Bearings 210-449 (TEBC Only)
- Double Shielded ODE Bearing 180-250 (TENV Only)
- Insulated Shaft ODE 400 Frame & Up
- Shaft Grounding Ring Standard on All Ratings
- Encoder Provisions on all ratings
- Normally Closed Thermostats (1 per Phase)
- Corro-Duty Construction (TEBC Only)
- Special Balance
- Double Dip & Bake with Extra Bracing
- Axial Constant Speed 230/460V Blower on TEBC
- Radial Blower and Brake Configurations available as E.T.O.
- Class H Insulation, 1.0 Service Factor
- Constant Torque Operation from Zero to Base Speed
- Constant power (HP) operation to 2 times base speed up to 250 frame & 1.5 times base speed above 250 frame
- Cast Iron Inner Bearing Caps (180 Frame & Up on TEBC)
- Cast Iron Drive End Inner Bearing Cap (180-250 on TENV)
- C-Face, Footed on 180-250 Frame
- Conversion Kits: C&D Flanges
- Three Year Limited Warranty

Footed

HP	RPM (Max Speed)	Voltage	Frame	Catalog Number	List	Discount Symbol	"C" Dim. (inches)	Ship Wt (lbs)	NEMA Nom. Eff.	Full Load Amps	Blower Full Load Amps	Notes
3	1800(4000)	230/460	182TC	HN3T2BC	$1,213	DS-VST	16.5	110	89.5	9.1/4.5	---	28
	1200(4000)	230/460	213TC	HN3T3BC	$2,151	DS-VST	20.0	157	89.5	8.8/4.4	---	28
5	1800(4000)	230/460	213TC	HN5T2BC	$1,604	DS-VST	20.0	167	89.5	16/8	---	28
	1200(4000)	230/460	215TC	HN5T3BC	$2,821	DS-VST	20.0	180	89.5	15/8	---	28
7.5	1800(4000)	230/460	213TC	HN7T2BC	$1,907	DS-VST	20.0	175	91.7	22/11	---	28
	1200(4000)	230/460	254TC	HN7T3BC	$3,428	DS-VST	25.1	300	91.0	20/10	---	28
10	1800(4000)	230/460	254TC	HN10T2BC	$2,628	DS-VST	25.1	320	91.7	28/14	---	28
	1200(4000)	230/460	256TC	HN10T3BC	$4,023	DS-VST	25.1	340	91.0	27/14	---	28
	1800(4000)	230/460	215TC	B10T2BC	$2,569	DS-VST	31.3	310	91.7	26.5/13.9	1.5/0.75	8
	1200(4000)	230/460	256TC	B10T3BC	$3,821	DS-VST	36.2	470	91.7	26.1/13	1.5/0.75	8
15	1800(4000)	230/460	254TC	B15T2BC	$3,081	DS-VST	36.2	470	93.6	38/19	1.5/0.75	8
	1200(4000)	230/460	284T	B15T3B	$5,072	DS-VST	39.4	540	92.4	38/19.1	1.7/0.9	8
20	1800(4000)	230/460	256TC	B20T2BC	$3,603	DS-VST	36.2	480	93.0	51/25.6	1.5/0.75	8
	1200(4000)	230/460	286T	B20T3B	$5,952	DS-VST	39.4	560	91.7	53/26.6	1.7/0.9	8
25	1800(4000)	230/460	284T	B25T2B	$4,232	DS-VST	39.4	550	94.1	62/31	1.7/0.9	8
	1200(3000)	230/460	324T	B25T3B	$7,072	DS-VST	44.6	750	93.0	71/36	3/1.5	8
30	1800(4000)	230/460	286T	B30T2B	$4,784	DS-VST	39.4	570	93.6	75/37	1.7/0.9	8
	1200(3000)	230/460	326T	B30T3B	$8,152	DS-VST	44.6	770	93.0	80/40	3/1.5	8
40	1800(3000)	230/460	324T	B40T2B	$6,132	DS-VST	44.6	770	95.0	101/50	3/1.5	8
	1200(3000)	230/460	364T	B40T3B	$10,681	DS-VST	46.5	1010	93.6	97/48	3/1.5	8
50	1800(3000)	230/460	326T	B50T2B	$7,285	DS-VST	44.6	790	95.0	116/58	3/1.5	8
	1200(3000)	230/460	365T	B50T3B	$12,131	DS-VST	46.5	1040	94.5	118/59	3/1.5	8
60	1800(3000)	230/460	364T	B60T2B	$10,178	DS-VST	46.5	1020	95.4	137/69	3/1.5	8
	1200(3000)	230/460	404T	B60T3B	$14,207	DS-VST	51.3	1390	94.5	149/74	5.7/2.8	8
75	1800(3000)	230/460	365T	B75T2B	$12,634	DS-VST	46.5	1060	95.4	182/91	3/1.5	8
	1200(3000)	230/460	405T	B75T3B	$16,525	DS-VST	51.3	1430	94.5	188/94	5.7/2.8	8
100	1800(3000)	230/460	405T	B100T2B	$15,423	DS-VST	51.3	1410	95.4	225/113	5.7/2.8	8
	1200(3000)	230/460	444T	B100T3B	$22,259	DS-VST	57.1	1880	95.8	245/122	5.7/2.8	8
125	1800(3000)	460	444T	B125T2C	$18,989	DS-VST	57.1	1870	95.8	164	5.7/2.8	8
150	1800(3000)	460	445T	B150T2C	$22,284	DS-VST	57.1	1900	95.8	180	5.7/2.8	8
200	1800(3000)	460	447T	B200T2C	$26,893	DS-VST	60.6	2230	96.5	240	5.7/2.8	8
250	1800(2000)	460	449T	B250T2C	$30,505	DS-VST	69.0	2860	96.5	289	7.8/3.9	8, AP
300	1800(2000)	460	449T	B300T2C	$36,616	DS-VST	69.0	3020	96.8	327	7.8/3.9	8, AP
350	1800(2000)	460	449T	B350T2C	$41,585	DS-VST	69.0	3090	96.8	396	7.8/3.9	8, AP

Note 8 230/460 Blower Voltage
Note 28 TENV Enclosure
Note AP No F2 convertibility

ACCU-Torq® Motor Accessories and Available Conversions

NOTE:

- Pre-assembled encoder, brake and shaft grounding options on ACCU-Torq® motors – NO EXTRA ASSEMBLY CHARGE.
- Conversion parts discount symbol is the same as the parent item.

CONVERSION OPTIONS:

- Brakes and encoders are compatible with ACCU-Torq® motor ratings per the below tables.
- F2 mounting for 180 frame and larger (F1 standard)

Encoders

- All encoders listed have Line-Driver Outputs and 1024 PPR
- Encoder cables not supplied by Nidec Motor Corporation®

						LIST PRICE BY FRAME, SPEED RANGE, AND ENCLOSURE TYPE				
MAKE	MODEL	BRGS	SENSOR	DUTY	CONNECTOR	56-256 5000:1 CT TENV	182-256 20:1 CT TENV	182-256 20:1 CT TEFC	182-447 20:1 CT TEFC	254-449 5000:1 CT TEBC
AVTRON	AV56*	NO	MAGNETIC	HEAVY, BRAKE	10-PIN INDUSTRIAL	$1,600	$1,600	-	-	$1,600
DYNAPAR	ST56*	NO	MAGNETIC	HEAVY, BRAKE	10-PIN INDUSTRIAL	$2,410	$2,410	-	-	$2,410
AVTRON	AV32	NO	MAGNETIC	MILL	MS 10-PIN	$1,125	$1,125	$1,125	$1,125	$1,125
DYNAPAR	HS20	YES	OPTICAL	LIGHT	MS 10-PIN	$1,200	$1,200	$1,200	-	-
EPC	260	YES	OPTICAL	LIGHT	MS 10-PIN	$1,125	$1,125	$1,125	-	-
AVTRON	HS35A	YES	OPTICAL	LIGHT	MS 10-PIN	-	-	$1,300	$1,300	$1,300
DYNAPAR	HS35R	YES	OPTICAL	LIGHT	MS 10-PIN	-	-	$1,530	$1,530	$1,530
EPC	25T	YES	OPTICAL	MILL	MS 10-PIN	-	-	$1,300	$1,300	$1,300

* Required for brake mounting with encoder (TENV)



HS20 Encoder



ST56 Encoder



260 Encoder



AV32 Encoder



AV56 Encoder

Brakes

- Connections to brakes: flying leads in brake enclosure
- Brakes rated for holding only – not to be applied for stopping
- Universal mount – for vertical and horizontal mounted motors

ENCL.	FRAME	MAKE	SERIES	LIST	COIL VOLTS	NOM STATIC TORQUE	ENCLOSURE
TENV	56-256	Stearns®	56,000	$766	115/208-230	6 lb-ft	IP23, STEEL HOUSING
		Stearns®	56,000	$911	115/208-230	10 lb-ft	IP23, STEEL HOUSING
		Stearns®	56,000	$766	208-230/460	6 lb-ft	IP23, STEEL HOUSING
		Stearns®	56,000	$911	208-230/460	10 lb-ft	IP23, STEEL HOUSING
		Stearns®	56,000	$766	575	6 lb-ft	IP23, STEEL HOUSING
		Stearns®	56,000	$911	575	10 lb-ft	IP23, STEEL HOUSING



ACCU-Torq™
Motor & Brake Configuration



ACCU-Torq™
Motor & Encoder Configuration



ACCU-Torq™
Motor, Encoder & Brake Configuration

Shaft Grounding Ring

- Reduces potential bearings failures caused by induced shaft currents

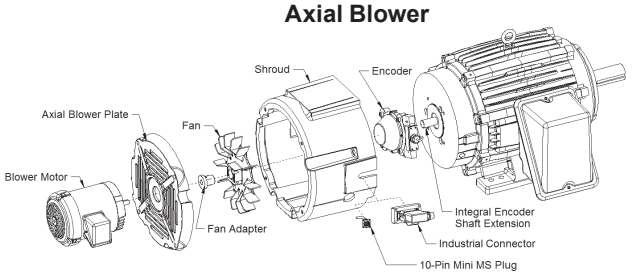
Make	List
Shaft Grounding Ring	$175

Special Application, Vector Duty Blower (ACCU-SERIES®)

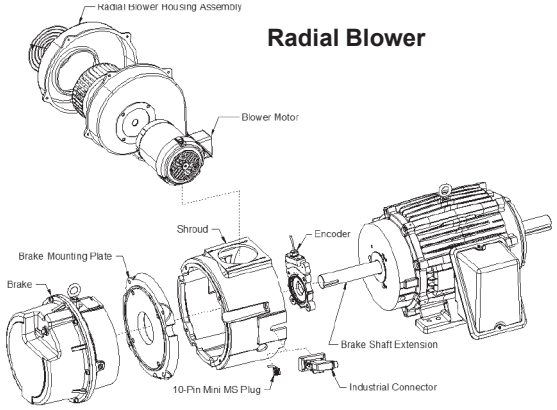
	AXIAL BLOWER SPARE PARTS							RADIAL BLOWER SPARE PARTS						
Motor Frame Size	Blower Motor HP	Blower Motor RPM	Blower Motor Frame	Blower Motor FLA	Blower Motor Catalog Number	Spare Motor Price	Discount Symbol	Blower Motor HP	Blower Motor RPM	Blower Motor Frame	Blower Motor FLA	Blower Motor Catalog Number	Spare Motor Price	Discount Symbol
215TC	1/3	1800	42CZ	1.5/0.75	T13S2D42ZCR	$266	DS-3RST	1/3	3600	56C	1.8/0.9	T13S1ACR	$279	DS-3RST
254TC	1/3	1800	42CZ	1.5/0.75	T13S2D42ZCR	$266	DS-3RST	1/3	3600	56C	1.8/0.9	T13S1ACR	$279	DS-3RST
256TC	1/3	1800	42CZ	1.5/0.75	T13S2D42ZCR	$266	DS-3RST	1/3	3600	56C	1.8/0.9	T13S1ACR	$279	DS-3RST
284T	1/2	1800	56C	1.7/0.9	U12S2ACR	$291	DS-3RST	1 1/2	3600	56C	5.0/2.5	T32P1ACR	$485	DS-3RST
286T	1/2	1800	56C	1.7/0.9	U12S2ACR	$291	DS-3RST	1 1/2	3600	56C	5.0/2.5	T32P1ACR	$485	DS-3RST
324T	1	1800	56C	3/1.5	U1P2DFCR	$425	DS-3RST	1 1/2	3600	56C	5.0/2.5	T32P1ACR	$485	DS-3RST
326T	1	1800	56C	3/1.5	U1P2DFCR	$425	DS-3RST	1 1/2	3600	56C	5.0/2.5	T32P1ACR	$485	DS-3RST
364T	1	1800	56C	3/1.5	U1P2DFCR	$425	DS-3RST	1 1/2	3600	56C	5.0/2.5	T32P1ACR	$485	DS-3RST
365T	1	1800	56C	3/1.5	U1P2DFCR	$425	DS-3RST	1 1/2	3600	56C	5.0/2.5	T32P1ACR	$485	DS-3RST
405T	2	1800	145TC	5.7/2.8	U2P2DCR	$578	DS-3RST	1	1800	56C	3/1.5	U1P2DFCR	$425	DS-3RST
444T	2	1800	145TC	5.7/2.8	U2P2DCR	$578	DS-3RST	1	1800	56C	3/1.5	U1P2DFCR	$425	DS-3RST
445T	2	1800	145TC	5.7/2.8	U2P2DCR	$578	DS-3RST	1	1800	56C	3/1.5	U1P2DFCR	$425	DS-3RST
447T	2	1800	145TC	5.7/2.8	U2P2DCR	$578	DS-3RST	1	1800	56C	3/1.5	U1P2DFCR	$425	DS-3RST
449T	3	1800	182TCH	7.8/3.9	U3P2DKR	$742	DS-3AL	1	1800	56C	3/1.5	U1P2DFCR	$425	DS-3RST
449T	3	1800	182TCH	7.8/3.9	U3P2DKR	$742	DS-3AL	1	1800	56C	3/1.5	U1P2DFCR	$425	DS-3RST
449T	3	1800	182TCH	7.8/3.9	U3P2DKR	$742	DS-3AL	1	1800	56C	3/1.5	U1P2DFCR	$425	DS-3RST

Encoders: Table by availability and list price on page 101.
Brakes: Table by nominal static torque, enclosure and list price on page 101.

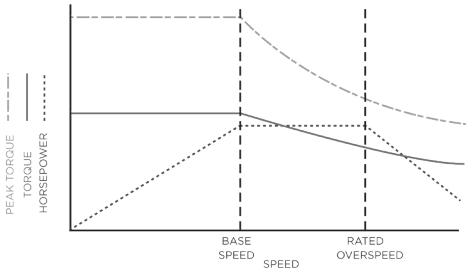
Axial Blower



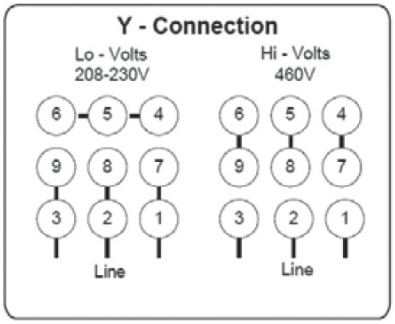
Radial Blower



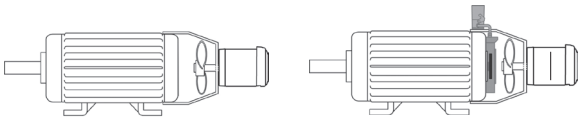
Constant Torque and Horsepower Curves



3-Phase Blower Connection Data



Axial Blower Configurations:

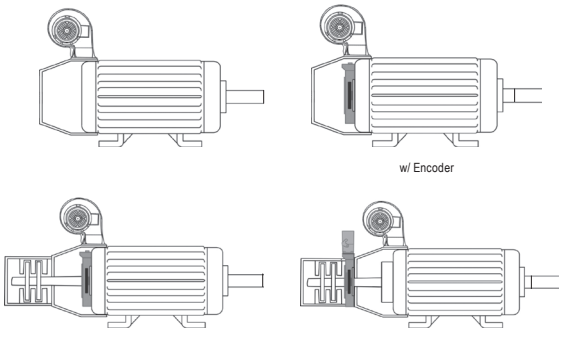


(Stock, Conversion or ETO)

w/ Encoder (Conversion or ETO)

Radial Blower Configurations:

(All ETO Only)

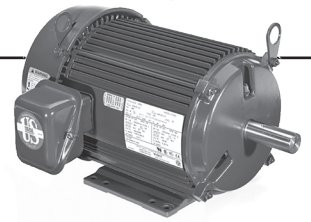


w/ Encoder

w/ Encoder and Brake

w/ Encoder and Brake

Definite Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) UNIMOUNT®, Inverter Duty 20:1 (3-60 Hertz) Speed Range Variable Torque, 5:1 (12-60 Hertz) Speed Range Constant Torque



UTI

APPLICATIONS:

For use on pumps, fans, blowers or other variable torque applications. Constant torque applications requiring 5:1 or less speed range and applications requiring a drive bypass.

FEATURES:

- INVERTER GRADE® Insulation System (Meets NEMA®† MG-1 Part 31)
- Class F Thermostats (One Per Phase)
- Extruded Aluminum Frame (140: Rolled Steel)
- Aluminum End Shields With Steel Bearing Inserts
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Removable Base 180 Frame & Larger
- Lifting Provisions 180 Frame & Larger
- Regreasable Shaft-End Bearing 180 Frame & Larger
- Sealed Bearings 56-140, Double Shielded Bearings 180-280
- Double Dip & Bake With Extra Bracing
- Premium Efficient Design, Special Balance, F1 Assembly Position
- Class F Insulation, 1.15 S.F. On Sine Wave / 1.0 S.F. On PWM
- Constant Horsepower To 90 Hertz
- Precision Balance (< 0.08 In/Sec Vibration)
- C-Face Footed 1-5 HP
- Brake Kits Available 56-210 Frame
- Shaft Grounding Ring 140-250 Frame (Updating models to include Grounding Ring, confirm availability at time of order)
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

HP	RPM (Max Speed)	Voltage	Frame	Catalog Number	List	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1/3	1800(3600)	230/460	56C	U13T2BCR	$420	DS-VST	10.8	22	75.5	1.6/0.8	FTLS
1/2	1800(3600)	208-230/460	56C	UN12V2AC	$444	DS-VST	8.8	26	84.0	2.0-2.1/1.1	28
	1800(3600)	230/460	56C	U12T2BCR	$463	DS-VST	10.8	78	78.5	2.3/1.1	FTLS
	1200(2400)	208-230/460	56C	UN12V3BC	$578	DS-VST	10.3	33	-	2.3-2.4/1.2	28
3/4	1800(3600)	208-230/460	56C	UN34V2AC	$498	DS-VST	10.3	26	-	2.8-2.7/1.3	
	1800(3600)	230/460	56C	U34T2BCR	$497	DS-VST	12.1	32	82.5	2.7/1.3	FTLS
	1200(2400)	208-230/460	56C	UN34V3BC	$622	DS-VST	13.6	32	-	3.1-3.0/1.5	28
1	1800(3600)	208-230/460	56C	UN1V2AFC	$553	DS-VST	11.8	37	85.5	3.5-3.4/1.7	28
	1800(3600)	230/460	143T	U1V2B	$486	DS-VST	12.9	30	85.5	3/1.5	SGR
	1800(3600)	230/460	143TC	U1V2BC	$569	DS-VST	13.1	45	85.5	3.0/1.5	SGR
	1200(2400)	230/460	145T	U1V3B	$661	DS-VST	12.9	35	82.5	3.5/1.7	SGR
	1200(2400)	230/460	145TC	U1V3BC	$740	DS-VST	13.1	42	82.5	3.7/1.8	SGR
1 1/2	3600(7200)	230/460	143T	U32V1B	$561	DS-VST	12.9	30	85.5	3.8/1.9	SGR
	3600(7200)	230/460	143TC	U32V1BC	$646	DS-VST	13.1	37	84.0	3.9/1.9	SGR
	1800(3600)	208-230/460	56C	T32V2BFC	$607	DS-VST	13.4	34	76.0	5.1-5.0/2.5	
	1800(3600)	230/460	145T	U32V2B	$539	DS-VST	12.9	35	86.5	4.3/2.1	SGR
	1800(3600)	230/460	145TC	U32V2BC	$623	DS-VST	13.1	42	86.5	4.1/2.1	SGR
	1200(2400)	230/460	182T	U32V3B	$864	DS-VST	16.1	60	87.5	4.5/2.2	SGR
	1200(2400)	230/460	182TC	U32V3BC	$864	DS-VST	16.2	60	87.5	4.5/2.2	SGR
2	3600(7200)	230/460	145T	U2V1B	$615	DS-VST	12.9	35	86.5	4.9/2.4	SGR
	3600(7200)	230/460	145TC	U2V1BC	$675	DS-VST	13.1	40	85.5	5/2.5	SGR
	1800(3600)	230/460	145T	U2V2B	$591	DS-VST	12.9	35	86.5	5.7/2.8	SGR
	1800(3600)	230/460	145TC	U2V2BC	$656	DS-VST	13.1	55	86.5	5.3/2.7	SGR
	1200(2400)	230/460	184T	U2V3B	$961	DS-VST	16.9	70	88.5	6.2/3.1	SGR
	1200(2400)	230/460	184TC	U2V3BC	$961	DS-VST	16.9	70	88.5	6.2/3.1	SGR
3	3600(7200)	230/460	182T	U3V1B	$882	DS-VST	16.1	60	86.5	8.2/4.1	SGR
	3600(7200)	230/460	182TC	U3V1BC	$882	DS-VST	16.2	60	86.5	8.2/4.1	SGR
	1800(3600)	230/460	182T	U3V2B	$780	DS-VST	16.1	60	89.5	7.8/3.9	SGR
	1800(3600)	230/460	182TC	U3V2BC	$780	DS-VST	16.2	75	89.5	7.8/3.9	SGR
	1200(2400)	230/460	213T	U3V3B	$1,214	DS-VST	18.6	105	89.5	8.6/4.3	SGR
	1200(2400)	230/460	213TC	U3V3BC	$1,191	DS-VST	18.8	115	89.5	8.6/4.3	SGR
5	3600(7200)	230/460	184T	U5V1B	$1,106	DS-VST	16.1	70	88.5	12.3/6.1	SGR
	3600(7200)	230/460	184TC	U5V1BC	$1,106	DS-VST	16.2	75	88.5	12.3/6.1	SGR
	1800(3600)	230/460	184T	U5V2B	$906	DS-VST	16.9	70	89.5	12.7/6.3	SGR
	1800(3600)	230/460	184TC	U5V2BC	$906	DS-VST	16.9	80	89.5	12.7/6.3	SGR
	1200(2400)	230/460	215T	U5V3B	$1,669	DS-VST	20.1	120	89.5	14.2/7.1	SGR
	1200(2400)	230/460	215TC	U5V3BC	$1,705	DS-VST	20.3	145	89.5	14.2/7.1	SGR
7 1/2	3600(7200)	230/460	213T	U7V1B	$1,371	DS-VST	18.6	105	89.5	17.9/9	SGR
	1800(3600)	230/460	213T	U7V2B	$1,240	DS-VST	18.6	115	91.7	19.3/9.6	SGR
	1200(2400)	230/460	254T	U7V3B	$2,276	DS-VST	23.9	212	91.0	18.6/9.3	SGR
10	3600(7200)	230/460	215T	U10V1B	$1,607	DS-VST	20.1	125	90.2	23.5/11.8	SGR
	1800(3600)	230/460	215T	U10V2B	$1,497	DS-VST	20.1	140	91.7	25.7/12.8	SGR
15	3600(7200)	230/460	254T	U15V1B	$2,299	DS-VST	23.9	202	90.2	35/17.7	SGR
	1800(3600)	230/460	254T	U15V2B	$2,068	DS-VST	23.9	180	92.4	37/18.4	SGR
20	3600(7200)	230/460	256T	U20V1B	$2,846	DS-VST	25.6	222	90.2	47/23.4	SGR
	1800(3600)	230/460	256T	U20V2B	$2,548	DS-VST	25.6	262	93.0	47/23.7	SGR

Note 28 TENV Enclosure
Note FTLS Footless

Note SGR Shaft Grounding Ring

Definite Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) World Motor HOSTILE DUTY®, Inverter Duty 20:1 (3-60 Hertz) Speed Range Variable Torque, 5:1 (12-60 Hertz) Speed Range Constant Torque

APPLICATIONS:

For use on pumps, fans, blowers or other inverter powered applications having variable torque requirements.
Constant torque applications requiring 5:1 or less speed range and applications requiring a drive bypass.

FEATURES:

- Inverter Grade® Insulation System (Meets NEMA®† MG-1 Part 31)
- Class F Thermostats (One Per Phase)
- Shaft Grounding Ring
- Corrosion Resistant Mill & Chemical Duty Paint
- Cast Iron Frame, Cast Iron End Brackets
- Stainless Steel Nameplate & Zinc Plated Hardware
- Shaft Slinger On Pulley End For IP54 Protection
- Dual Voltage 230/460 Volts (1-100 HP)
- 40°C Ambient, NEMA®† Design B Performance On 60 Hz Sine Wave Power
- Regreasable Ball Bearings 250 Frame & Up, Lifting Provisions
- Double Shielded Bearings 140-360, Open On 400-440
- Double Dip & Bake With Extra Bracing
- Class F Insulation, 1.15 S.F. On Sine Wave / 1.0 S.F. On PWM
- Constant Horsepower To 90 Hz
- Steel Fan Cover & Conduit Box
- Field Convertible To F2 Mounting
- Condensation Drains With Plastic Plugs
- Conversion Kits: All Cast Iron Upgrade, C&D Flanges, Canopy Kits
- C-Face Footed 1-5 HP
- Bearing Caps On 400-440
- Non-Drive End Insulated Bearing On 400-440

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1	1800(3600)	230/460	143TC	HD1V2BC	$639	DS-VSTW	14.0	60	85.5	3/1.5	SGR
	1800(3600)	230/460	143T	HD1V2B	$530	DS-VSTW	13.5	60	85.5	3/1.5	SGR
	1200(2400)	230/460	145TC	HD1V3BC	$785	DS-VSTW	14.0	70	82.5	3.7/1.8	SGR
	1200(2400)	230/460	145T	HD1V3B	$676	DS-VSTW	13.5	70	82.5	3.7/1.8	SGR
1 1/2	3600(7200)	230/460	143TC	HD32V1BC	$699	DS-VSTW	14.0	50	84.0	3.9/1.9	SGR
	3600(7200)	230/460	143TC	H32V1BC	$660	DS-VST	12.6	65	84.0	3.9/1.9	LA, NWM
	3600(7200)	230/460	143T	HD32V1B	$590	DS-VSTW	13.5	50	84.0	3.9/1.9	SGR
	1800(3600)	230/460	145TC	HD32V2BC	$675	DS-VSTW	14.0	70	86.5	4.1/2.1	SGR
	1800(3600)	230/460	145T	HD32V2B	$566	DS-VSTW	13.5	70	86.5	4.1/2.1	SGR
	1200(2400)	230/460	182TC	HD32V3BC	$848	DS-VSTW	17.1	90	87.5	4.5/2.2	SGR
	1200(2400)	230/460	182T	HD32V3B	$761	DS-VSTW	16.3	90	87.5	4.5/2.2	SGR
2	3600(7200)	230/460	145TC	HD2V1BC	$722	DS-VSTW	14.0	50	85.5	5/2.5	SGR
	3600(7200)	230/460	145T	HD2V1B	$613	DS-VSTW	13.5	50	85.5	5/2.5	SGR
	1800(3600)	230/460	145TC	HD2V2BC	$731	DS-VSTW	14.0	70	86.5	5.3/2.7	SGR
	1800(3600)	230/460	145T	HD2V2B	$622	DS-VSTW	13.5	70	86.5	5.3/2.7	SGR
	1200(2400)	230/460	184TC	HD2V3BC	$935	DS-VSTW	17.1	110	88.5	6.2/3.1	SGR
	1200(2400)	230/460	184T	HD2V3B	$868	DS-VSTW	16.3	100	88.5	6.2/3.1	SGR
3	3600(7200)	230/460	182TC	HD3V1BC	$861	DS-VSTW	17.1	80	86.5	8.2/4.1	SGR
	3600(7200)	230/460	182T	HD3V1B	$712	DS-VSTW	16.3	70	86.5	8.2/4.1	SGR
	1800(3600)	230/460	182TC	HD3V2BC	$828	DS-VSTW	17.1	100	89.5	7.8/3.9	SGR
	1800(3600)	230/460	182T	HD3V2B	$679	DS-VSTW	16.3	90	89.5	7.8/3.9	SGR
	1200(2400)	230/460	213TC	HD3V3BC	$1,120	DS-VSTW	19.6	170	89.5	8.6/4.3	SGR
	1200(2400)	230/460	213T	HD3V3B	$1081	DS-VSTW	19.6	150	89.5	8.6/4.3	SGR
5	3600(7200)	230/460	184TC	HD5V1BC	$994	DS-VSTW	17.1	90	88.5	12.3/6.1	SGR
	3600(7200)	230/460	184T	HD5V1B	$844	DS-VSTW	16.3	90	88.5	12.3/6.1	SGR
	1800(3600)	230/460	184TC	HD5V2BC	$923	DS-VSTW	17.1	110	89.5	12.7/6.3	SGR
	1800(3600)	230/460	184T	HD5V2B	$774	DS-VSTW	16.3	100	89.5	12.7/6.3	SGR
	1200(2400)	230/460	215TC	HD5V3BC	$1,540	DS-VSTW	20.4	180	89.5	14.2/7.1	SGR
	1200(2400)	230/460	215T	HD5V3B	$1395	DS-VSTW	19.6	170	89.5	14.2/7.1	SGR
7 1/2	3600(7200)	230/460	213T	HD7V1B	$1,099	DS-VSTW	19.6	130	89.5	18.1/9	SGR
	1800(3600)	230/460	213T	HD7V2B	$1,055	DS-VSTW	19.6	150	91.7	19.1/9.6	SGR
	1200(2400)	230/460	254T	HD7V3B	$1,873	DS-VSTW	24.9	230	91.0	18.8/9.4	SGR

Note SGR Shaft Grounding Ring
Note LA Limited Availability
Note NWM Non-World Motor Construction

Definite Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) World Motor HOSTILE DUTY®, Inverter Duty 20:1 (3-60 Hertz) Speed Range Variable Torque, 5:1 (12-60 Hertz) Speed Range Constant Torque

(continued)

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
10	3600(7200)	230/460	215T	HD10V1B	$1,281	DS-VSTW	19.6	140	90.2	23.5/11.8	SGR
	1800(3600)	230/460	215T	HD10V2B	$1,313	DS-VSTW	19.6	170	91.7	25.7/12.8	SGR
	1200(2400)	230/460	256T	HD10V3B	$2,226	DS-VSTW	24.9	250	91.0	24.9/12.4	SGR
15	3600(7200)	230/460	254T	HD15V1B	$1,803	DS-VSTW	24.9	250	91.0	35/17.4	SGR
	1800(3600)	230/460	254T	HD15V2B	$1,757	DS-VSTW	24.9	250	92.4	36/18	SGR
	1200(2400)	230/460	284T	HD15V3B	$2,941	DS-VSTW	27.5	310	91.7	37/18.5	SGR
20	3600(7200)	230/460	256T	HD20V1B	$2,235	DS-VSTW	24.9	260	91.0	46/23	SGR
	1800(3600)	230/460	256T	HD20V2B	$2,186	DS-VSTW	24.9	280	93.0	47/23.7	SGR
	1200(2400)	230/460	286T	HD20V3B	$3,616	DS-VSTW	27.5	350	91.7	49/24.4	SGR
25	3600(7200)	230/460	284TS	HD25V1BS	$2,658	DS-VSTW	26.1	310	91.7	58/28.8	SGR
	1800(2700)	230/460	284T	HD25V2B	$2,571	DS-VSTW	27.5	330	93.6	58/29.2	SGR
	1200(2400)	230/460	324T	HD25V3B	$4,619	DS-VSTW	30.1	490	93.0	59/29.3	SGR
30	3600(5400)	230/460	286TS	HD30V1BS	$3,188	DS-VSTW	26.1	310	91.7	69/35	SGR
	1800(2700)	230/460	286T	HD30V2B	$3,053	DS-VSTW	27.5	340	93.6	70/35	SGR
	1200(2400)	230/460	326T	HD30V3B	$5,254	DS-VSTW	30.1	520	93.0	70/35	SGR
40	3600(5400)	230/460	324TS	HD40V1BS	$3,758	DS-VSTW	28.6	410	92.4	92/46	SGR
	1800(2700)	230/460	324T	HD40V2B	$3,644	DS-VSTW	30.1	450	94.1	92/46	SGR
	1200(2400)	230/460	364T	HD40V3B	$5,821	DS-VSTW	32.3	630	94.1	94/47	SGR
50	3600(5400)	230/460	326TS	HD50V1BS	$5,036	DS-VSTW	28.6	480	93.0	112/56	SGR
	1800(2700)	230/460	326T	HD50V2B	$4,524	DS-VSTW	30.1	550	94.5	112/56	SGR
	1200(2400)	230/460	365T	HD50V3B	$7,239	DS-VSTW	32.3	680	94.1	117/59	SGR
60	3600(5400)	230/460	364TS	HD60V1BS	$6,476	DS-VSTW	30.2	560	93.6	136/68	SGR
	1800(3600)	230/460	364T	HD60V2B	$6,330	DS-VSTW	32.3	640	95.0	137/68	SGR
	1200(2400)	230/460	404T	HD60V3B	$8,517	DS-VSTW	37.6	940	94.5	141/71	SGR
75	3600(4500)	230/460	365TS	HD75V1BS	$8,339	DS-VSTW	30.2	650	94.1	165/83	SGR
	3600(4500)	230/460	365TS	H75V1BS	$11,411	DS-VST	30.4	830	93.6	167/83	LA, NWM
	1800(3600)	230/460	365T	HD75V2B	$7,728	DS-VSTW	32.3	700	95.4	170/85	SGR
	1200(2400)	230/460	405T	HD75V3B	$10,133	DS-VSTW	37.6	970	94.5	178/89	SGR
100	3600(4500)	230/460	405TS	HD100V1BS	$11,178	DS-VSTW	34.6	900	94.1	228/114	SGR
	1800(3600)	230/460	405T	HD100V2B	$10,133	DS-VSTW	34.6	980	95.4	229/115	SGR
	1200(2400)	460	444T	HD100V3C	$13,603	DS-VSTW	44.4	1450	95.0	120	SGR
125	3600(4500)	460	444TS	HD125V1CS	$13,997	DS-VSTW	40.6	1300	95.0	142	SGR
	1800(3600)	460	444T	HD125V2C	$13,146	DS-VSTW	44.4	1260	95.4	141	SGR
	1200(2400)	460	445T	HD125V3C	$16,895	DS-VSTW	44.4	1500	95.0	153	SGR
150	3600(4500)	460	445TS	HD150V1CS	$17,743	DS-VSTW	40.6	1410	95.0	167	SGR
	1800(3600)	460	445T	HD150V2C	$15,831	DS-VSTW	44.4	1480	95.8	171	SGR
	1200(2400)	460	445T	HD150V3C	$19,320	DS-VSTW	44.4	1760	95.8	179	SGR
200	3600(4500)	460	447TS	HD200V1CS	$24,249	DS-VSTW	44.1	1600	95.4	222	SGR
	1800(3600)	460	447T	HD200V2C	$20,503	DS-VSTW	47.9	1710	96.2	226	SGR

Note SGR Shaft Grounding Ring
Note LA Limited Availability

Note NWM Non-World Motor Construction

Definite Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) HOSTILE DUTY®, Inverter Duty 20:1 (3-60 Hertz) Speed Range Constant Torque

APPLICATIONS:

For use on pumps, fans, blowers or other inverter powered applications having variable torque requirements.
Constant torque applications requiring 20:1 or less speed range and applications requiring a drive bypass.

FEATURES:

- INVERTER GRADE® Insulation System (Meets NEMA®† MG-1 Part 31)
- Class F Thermostats (One Per Phase)
- Cast Iron Frame, Cast Iron End Brackets
- Corrosion Resistant Mill & Chemical Duty Paint
- Stainless Steel Nameplate & Zinc Plated Hardware
- Shaft Slinger On Pulley End For IP54 Protection
- 40°C Ambient, NEMA®† Design B Performance
- Regreasable Bearings 250 Frame & Up, Lifting Provisions Standard
- Double Shielded Bearings 180-360 Frame
- Double Dip & Bake With Extra Bracing
- Premium Efficient Design, Special Balance, F1 Assembly Position
- Class H Insulation, 1.15 S.F. On Sine Wave / 1.0 S.F. On PWM
- Cast Iron Inner Bearing Caps (280 Frame & Up)
- Encoder Provision Standard on Stock Models
- Insulated Shaft ODE 400 Frame & Up
- Shaft Grounding Standard
- Conversion Kits: All Cast Iron Upgrade, C&D Flanges, Canopy Kits (except 320-360)

HP	RPM (Max Speed)	Voltage	Frame	Catalog Number	List	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
3	1800(3600)	230/460	182TC	HN3T2BC	$1,213	DS-VST	16.5	110	89.5	9.1/4.5	14
	1200(2400)	230/460	213TC	HN3T3BC	$2,151	DS-VST	20.0	157	89.5	8.8/4.4	14
5	1800(3600)	230/460	184T	H5T2B	$985	DS-VST	15.6	110	89.5	13.4/6.7	14
	1800(3600)	230/460	184TC	H5T2BC	$1,086	DS-VST	16.3	110	89.5	13.4/6.7	14
	1800(3600)	230/460	213TC	HN5T2BC	$1,604	DS-VST	20.0	167	91.0	15.4/7.7	14
	1200(2400)	230/460	215TC	HN5T3BC	$2,821	DS-VST	20.0	180	89.5	14.6/7.3	14
7 1/2	1800(3600)	230/460	213T	H7T2B	$1,348	DS-VST	19.2	160	91.7	21.1/10.5	14
	1800(3600)	230/460	213TC	H7T2BC	$1,497	DS-VST	19.9	160	91.7	21.1/10.5	14
	1800(3600)	230/460	213TC	HN7T2BC	$1,907	DS-VST	20.0	175	91.7	20.5/10.2	14
	1200(2400)	230/460	254TC	H7T3BC	$2,675	DS-VST	26.1	300	91.0	20.2/10.1	14
	1200(2400)	230/460	254TC	HN7T3BC	$3,428	DS-VST	26.1	300	91.7	19.4/9.7	14
10	1800(3600)	230/460	254TC	HN10T2BC	$2,628	DS-VST	26.1	320	91.7	27.1/13.5	14
	1800(3600)	230/460	215T	H10T2B	$1,628	DS-VST	19.2	175	91.7	27.7/13.9	14
	1800(3600)	230/460	215TC	H10T2BC	$2,172	DS-VST	19.9	175	91.7	27.7/13.9	14
	1200(2400)	230/460	256TC	H10T3BC	$3,189	DS-VST	26.1	340	91.7	26.1/13	14
	1200(2400)	230/460	256TC	HN10T3BC	$4,023	DS-VST	26.1	340	91.7	26/13	14
15	1800(3600)	230/460	254T	H15T2B	$2,248	DS-VST	25.6	300	92.4	38/19	14
	1800(3600)	230/460	254TC	H15T2BC	$2,449	DS-VST	26.1	300	92.4	38/19	14
	1800(3600)	230/460	254TC	HN15T2BC	$3,193	DS-VST	26.1	300	92.4	37/18.6	14
	1200(2400)	230/460	284T	H15T3B	$4,164	DS-VST	27.0	385	91.7	38/19.2	14
20	1800(3600)	230/460	256T	H20T2B	$2,770	DS-VST	25.6	370	93.0	51/25.6	14
	1800(3600)	230/460	256TC	H20T2BC	$3,253	DS-VST	26.1	340	93.0	51/25.6	14
	1200(2400)	230/460	286T	H20T3B	$5,044	DS-VST	27.0	400	91.7	53/26.6	14
25	1800(2700)	230/460	284T	H25T2B	$3,324	DS-VST	27.1	387	93.6	62/31	14
	1200(2400)	230/460	324T	H25T3B	$6,001	DS-VST	30.7	600	93.0	71/36	14
30	1800(2700)	230/460	286T	H30T2B	$3,876	DS-VST	27.1	440	93.6	75/37	14
	1200(2400)	230/460	326T	H30T3B	$7,081	DS-VST	30.7	625	93.0	79/40	14

Note 14 NEMA®† Design A



Definite Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) HOSTILE DUTY®, Inverter Duty 20:1 (3-60 Hertz) Speed Range Constant Torque

(continued)

HP	RPM (Max Speed)	Voltage	Frame	Catalog Number	List	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
40	1800(2700)	230/460	324T	H40T2B	$5,061	DS-VST	30.7	600	94.1	101/51	14
	1200(2400)	230/460	364T	H40T3B	$9,538	DS-VST	32.3	740	94.5	97/48	14
50	1800(2700)	230/460	326T	H50T2B	$6,214	DS-VST	32.3	625	94.5	116/58	14
	1200(2400)	230/460	365T	H50T3B	$10,988	DS-VST	32.3	910	94.5	118/59	14
60	1800(3600)	230/460	364T	H60T2B	$9,035	DS-VST	32.3	740	95.4	137/69	14
	1200(2400)	230/460	404T	H60T3B	$12,945	DS-VST	37.6	1160	94.5	149/74	14
75	1800(3600)	230/460	365T	H75T2B	$11,491	DS-VST	32.3	910	95.4	182/91	14
	1200(2400)	230/460	405T	H75T3B	$15,263	DS-VST	37.6	1180	94.5	188/94	14
100	1800(3600)	230/460	405T	H100T2B	$14,161	DS-VST	37.6	1180	95.4	225/113	LA
	1200(2400)	230/460	444T	H100T3B	$20,898	DS-VST	45.4	1660	95.0	247/123	14
125	1800(3600)	460	444T	H125T2C	$17,628	DS-VST	45.4	1660	95.4	164	14,LA
150	1800(3600)	460	445T	H150T2C	$20,923	DS-VST	45.4	1700	95.8	180	14
200	1800(3600)	460	447T	H200T2C	$23,452	DS-VST	48.9	2025	96.2	241	14
250	1800(3600)	460	449T	C250T2C	$30,428	DS-VST	55.1	2400	96.5	289	14
300	1800(3600)	460	449T	C300T2C	$41,403	DS-VST	55.1	2400	96.8	327	14
350	1800(3600)	460	449T	C350T2C	$49,229	DS-VST	55.1	2400	96.2	397	14

Note 14 NEMA® Design A
Note LA Limited Availability

Definite Purpose Three Phase, Open Drip Proof (ODP) Inverter Duty 20:1 (3-60 Hertz) Speed Range Variable Torque, 5:1 (12-60 Hertz) Speed Range Constant Torque



DI, RI

APPLICATIONS:

For use on pumps, fans, blowers or other inverter powered applications.

FEATURES:

- INVERTER GRADE® Insulation System (Meets NEMA®† MG-1 Part 31)
- Class F Thermostats (One Per Phase)
- Rolled Steel Frame (140-360), Cast Iron Frame (400-440)
- Aluminum End Shields 140-250, Cast Iron End Shields 280-440
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Constant Horsepower To 90 Hertz
- Lifting Provisions (210 Frame & Up)
- Regreasable Bearings 180 Frame & Up, Lifting Provisions 210 Frame & Up
- Double Shielded Bearings 140-400, Open On 440 Frame
- Double Dip & Bake With Extra Bracing
- Premium Efficient Design, Special Balance, F1 Assembly Position
- Class F Insulation, 1.15 S.F. On Sine Wave / 1.0 S.F. On PWM
- Conversion Kits: Canopy Kits (140-320 Frame)
- For VFD Guidelines, Refer to Page vii

HP	RPM (Max Speed)	Voltage	Frame	Catalog Number	List	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1	1800(3600)	230/460	143T	D1V2B	$525	DS-VSO	12.8	30	85.5	3.1/1.6	SGR
	1800(3600)	575	143T	D1V2G	$525	DS-VSO	12.8	30	85.5	1.3	SGR
	1200(2400)	230/460	145T	D1V3B	$702	DS-VSO	14.1	35	82.5	4/2	SGR
	1200(2400)	575	145T	D1V3G	$702	DS-VSO	14.1	35	82.5	1.6	SGR
1 1/2	3600(7200)	230/460	143T	D32V1B	$557	DS-VSO	12.8	30	84.0	3.8/1.9	SGR
	3600(7200)	575	143T	D32V1G	$557	DS-VSO	12.8	30	85.5	1.5	SGR
	1800(3600)	230/460	145T	D32V2B	$550	DS-VSO	12.8	35	86.5	4.2/2.1	SGR
	1800(3600)	575	145T	D32V2G	$550	DS-VSO	12.8	35	86.5	1.7	SGR
	1200(2400)	230/460	182T	D32V3B	$708	DS-VSO	13.7	50	86.5	5.3/2.6	SGR
	1200(2400)	575	182T	D32V3G	$708	DS-VSO	13.7	50	86.5	2.1	SGR
2	3600(7200)	230/460	145T	D2V1B	$608	DS-VSO	12.8	35	85.5	5/2.5	SGR
	3600(7200)	575	145T	D2V1G	$608	DS-VSO	12.8	35	85.5	2	SGR
	1800(3600)	230/460	145T	D2V2B	$604	DS-VSO	12.8	35	86.5	5.6/2.8	SGR
	1800(3600)	575	145T	D2V2G	$604	DS-VSO	12.8	35	86.5	2.2	SGR
	1200(2400)	575	184T	D2V3G	$793	DS-VSO	13.7	60	87.5	2.5	SGR
	1200(2400)	230/460	184T	D2V3B	$793	DS-VSO	13.7	60	87.5	6.3/3.1	SGR
3	3600(7200)	230/460	145T	D3V1B	$624	DS-VSO	12.8	35	85.5	7.4/3.7	SGR
	3600(7200)	575	145T	D3V1G	$624	DS-VSO	12.8	35	85.5	2.9	SGR
	1800(3600)	230/460	182T	D3V2B	$642	DS-VSO	13.7	50	89.5	7.6/3.8	SGR
	1800(3600)	575	182T	D3V2G	$642	DS-VSO	13.7	50	89.5	3.1	SGR
	1200(2400)	230/460	213T	D3V3B	$1009	DS-VSO	16.0	90	88.5	9.2/4.6	SGR
	1200(2400)	575	213T	D3V3G	$1009	DS-VSO	16.0	90	88.5	3.7	SGR
5	3600(7200)	230/460	182T	D5V1B	$667	DS-VSO	13.7	50	88.5	12.3/6.2	SGR
	3600(7200)	575	182T	D5V1G	$667	DS-VSO	13.7	50	87.5	5	SGR
	1800(3600)	230/460	184T	D5V2B	$726	DS-VSO	13.7	60	89.5	12.4/6.2	SGR
	1800(3600)	575	184T	D5V2G	$726	DS-VSO	13.7	60	89.5	5.1	SGR
	1200(2400)	230/460	215T	D5V3B	$1,324	DS-VSO	17.5	105	88.5	14.4/7.2	SGR
	1200(2400)	575	215T	D5V3G	$1,324	DS-VSO	17.5	105	89.5	5.6	SGR
7 1/2	3600(7200)	230/460	184T	D7V1B	$1,038	DS-VSO	13.7	60	88.5	18.1/9.1	SGR
	3600(7200)	575	184T	D7V1G	$1,038	DS-VSO	13.7	60	88.5	7.3	SGR
	1800(3600)	230/460	213T	D7V2B	$1,011	DS-VSO	16.0	90	91.0	18.5/9.3	SGR
	1800(3600)	575	213T	D7V2G	$1,011	DS-VSO	16.0	90	91.0	7.5	SGR
	1200(2400)	230/460	254T	D7V3B	$1,679	DS-VSO	22.7	150	91.7	18.9/9.5	SGR
	1200(2400)	575	254T	D7V3G	$1,679	DS-VSO	19.1	150	91.0	7.6	SGR
10	3600(7200)	230/460	213T	D10V1B	$1,214	DS-VSO	16.0	90	90.2	24.3/12.2	SGR
	3600(7200)	575	213T	D10V1G	$1,214	DS-VSO	16.0	90	89.5	9.7	SGR
	1800(3600)	230/460	215T	D10V2B	$1,231	DS-VSO	17.5	105	91.0	23.8/11.9	SGR
	1800(3600)	575	215T	D10V2G	$1,231	DS-VSO	17.5	105	91.7	9.8	SGR
	1200(2400)	230/460	256T	D10V3B	$2,184	DS-VSO	22.7	160	91.7	25.1/12.6	SGR
	1200(2400)	575	256T	D10V3G	$2,184	DS-VSO	20.4	160	91.7	10.2	SGR

Note SGR Shaft Grounding Ring

Definite Purpose Three Phase, Open Drip Proof (ODP) Inverter Duty 20:1 (3-60 Hertz) Speed Range Variable Torque, 5:1 (12-60 Hertz) Speed Range Constant Torque



DI, RI

(continued)

HP	RPM (Max Speed)	Voltage	Frame	Catalog Number	List	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
15	3600(7200)	230/460	215T	D15V1B	$1,669	DS-VSO	17.5	105	90.2	36/18	SGR
	3600(7200)	575	215T	D15V1G	$1,669	DS-VSO	17.5	105	90.2	14.4	SGR
	1800(3600)	230/460	254T	D15V2B	$1,767	DS-VSO	19.1	198	93.0	37/18.6	SGR
	1800(3600)	575	254T	D15V2G	$1,767	DS-VSO	19.1	150	93.0	14.8	SGR
	1200(2400)	230/460	284T	D15V3B	$2,788	DS-VSO	24.9	225	91.7	37/18.5	SGR
	1200(2400)	575	284T	D15V3G	$2,788	DS-VSO	24.88	225	91.7	14.8	SGR
20	3600(7200)	230/460	254T	D20V1B	$2,019	DS-VSO	22.6	150	91.0	46/23.2	SGR
	3600(7200)	575	254T	D20V1G	$2,019	DS-VSO	19.1	150	91.0	18.7	SGR
	1800(3600)	230/460	256T	D20V2B	$2,266	DS-VSO	20.4	160	93.0	48/24	SGR
	1800(3600)	575	256T	D20V2G	$2,266	DS-VSO	20.4	160	93.0	18.8	SGR
	1200(2400)	230/460	286T	D20V3B	$3,398	DS-VSO	24.9	250	91.7	49/24.4	SGR
	1200(2400)	575	286T	D20V3G	$3,398	DS-VSO	24.9	250	92.4	19.5	SGR
25	3600(7200)	230/460	256T	D25V1B	$2,640	DS-VSO	20.4	160	91.7	57/28.5	SGR
	3600(7200)	575	256T	D25V1G	$2,640	DS-VSO	20.4	160	91.7	22.9	SGR
	1800(2700)	230/460	284T	D25V2B	$2,744	DS-VSO	24.9	225	93.6	58/29.2	SGR
	1800(2700)	575	284T	D25V2G	$2,744	DS-VSO	24.9	225	93.6	23.5	SGR
	1200(2400)	230/460	324T	D25V3B	$3,732	DS-VSO	27.3	385	93.0	59/29.3	SGR
	1200(2400)	575	324T	D25V3G	$3,732	DS-VSO	27.3	385	93.0	23.5	SGR
30	3600(5400)	230/460	284TS	D30V1BS	$3,033	DS-VSO	23.0	225	92.4	68/34	SGR
	3600(5400)	575	284TS	D30V1GS	$3,033	DS-VSO	23.0	225	91.7	27.4	SGR
	1800(2700)	230/460	286T	D30V2B	$3,174	DS-VSO	24.9	250	94.1	69/34	SGR
	1800(2700)	575	286T	D30V2G	$3,174	DS-VSO	24.9	250	94.1	27.8	SGR
	1200(2400)	230/460	326T	D30V3B	$4,173	DS-VSO	27.3	460	93.0	70/35	SGR
	1200(2400)	575	326T	D30V3G	$4,173	DS-VSO	27.3	460	93.6	27.8	SGR
40	3600(5400)	230/460	286TS	D40V1BS	$3,315	DS-VSO	23.5	250	93.0	90/45	SGR
	3600(5400)	575	286TS	D40V1GS	$3,315	DS-VSO	23.0	250	92.4	36	SGR
	1800(2700)	230/460	324T	D40V2B	$3,322	DS-VSO	27.3	385	94.1	91/46	SGR
	1800(2700)	575	324T	D40V2G	$3,322	DS-VSO	27.3	385	94.1	37	SGR
	1200(2400)	230/460	364T	D40V3B	$6,654	DS-VSO	30.6	595	94.5	92/46	SGR
	1200(2400)	575	364T	D40V3G	$6,654	DS-VSO	30.6	595	94.1	38	SGR
50	3600(5400)	230/460	324TS	D50V1BS	$3,729	DS-VSO	25.8	385	93.0	117/59	SGR
	3600(5400)	575	324TS	D50V1GS	$3,729	DS-VSO	25.8	385	93.0	47	SGR
	1800(2700)	230/460	326T	D50V2B	$3,894	DS-VSO	27.3	460	94.1	114/57	SGR
	1800(2700)	575	326T	D50V2G	$3,894	DS-VSO	27.3	460	94.5	45	SGR
	1200(2400)	230/460	365T	D50V3B	$7,492	DS-VSO	29.7	635	94.5	115/57	SGR
	1200(2400)	575	365T	D50V3G	$7,492	DS-VSO	30.6	635	94.1	47	SGR
60	3600(5400)	230/460	326TS	D60V1BS	$5,005	DS-VSO	25.8	446	93.6	135/67	SGR
	3600(5400)	575	326TS	D60V1GS	$5,005	DS-VSO	25.8	460	93.6	54	SGR
	1800(3600)	230/460	364T	D60V2B	$5,216	DS-VSO	28.7	545	95.0	138/69	SGR
	1800(3600)	575	364T	D60V2G	$5,216	DS-VSO	28.6	545	95.0	56	SGR
	1200(2400)	230/460	404T	D60V3B	$8,631	DS-VSO	32.5	750	94.5	138/69	SGR
	1200(2400)	575	404T	D60V3G	$8,631	DS-VSO	32.5	750	94.5	55	SGR
75	3600(4500)	230/460	364TS	D75V1BS	$6,592	DS-VSO	26.6	580	93.6	171/85	SGR
	3600(4500)	575	364TS	D75V1GS	$6,592	DS-VSO	26.5	495	93.6	68	SGR
	1800(3600)	230/460	365T	D75V2B	$6,176	DS-VSO	29.7	600	95.0	175/87	SGR
	1800(3600)	575	365T	D75V2G	$6,176	DS-VSO	30.6	575	95.0	70	SGR
	1200(2400)	230/460	405T	D75V3B	$9,715	DS-VSO	34.1	800	94.5	172/86	SGR
	1200(2400)	575	405T	D75V3G	$9,715	DS-VSO	34.0	800	94.5	69	SGR

Note SGR Shaft Grounding Ring

Definite Purpose Three Phase, Open Drip Proof (ODP) Inverter Duty 20:1 (3-60 Hertz) Speed Range Variable Torque, 5:1 (12-60 Hertz) Speed Range Constant Torque



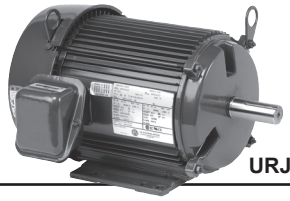
DI, RI

(continued)

HP	RPM (Max Speed)	Voltage	Frame	Catalog Number	List	Discount Symbol	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
100	3600(4500)	230/460	365TS	D100V1BS	$7,282	DS-VSO	27.6	600	94.1	224/112	SGR
	3600(4500)	575	365TS	D100V1GS	$7,282	DS-VSO	26.5	575	93.6	89	SGR
	1800(3600)	230/460	404T	D100V2B	$7,360	DS-VSO	32.6	868	95.4	224/112	SGR
	1800(3600)	575	404T	D100V2G	$7,360	DS-VSO	32.5	750	95.4	90	SGR
	1200(2400)	460	444T	D100V3C	$11,507	DS-VSO	39.8	1100	95.0	117	SGR
	1200(2400)	575	444T	D100V3G	$11,507	DS-VSO	39.8	1100	95.0	94	SGR
125	3600(4500)	460	404TS	D125V1CS	$9,490	DS-VSO	29.6	763	95.0	136	SGR
	3600(4500)	575	404TS	D125V1GS	$9,490	DS-VSO	29.5	750	94.1	110	SGR
	1800(3600)	460	405T	D125V2C	$9,530	DS-VSO	34.1	813	95.4	140	SGR
	1800(3600)	575	405T	D125V2G	$9,530	DS-VSO	34.0	800	95.4	112	SGR
	1200(2400)	460	445T	D125V3C	$11,097	DS-VSO	39.8	1200	95	146	SGR
	1200(2400)	575	445T	D125V3G	$11,097	DS-VSO	39.8	1200	95	118	SGR
150	3600(4500)	230/460	405TS	D150V1BS	$11,710	DS-VSO	31.1	800	94.5	327/164	SGR
	3600(4500)	575	405TS	D150V1GS	$11,710	DS-VSO	31.0	800	94.1	131	SGR
	1800(3600)	460	444T	D150V2C	$12,460	DS-VSO	39.8	1100	95.8	170	SGR
	1800(3600)	575	444T	D150V2G	$12,460	DS-VSO	39.8	1100	95.8	135	SGR
	1200(2400)	460	445T	D150V3C	$16,294	DS-VSO	39.8	1200	95.4	174	SGR
	1200(2400)	575	445T	D150V3G	$16,294	DS-VSO	39.8	1200	95.4	141	SGR
200	3600(4500)	460	444TS	D200V1CS	$13,917	DS-VSO	36.1	1100	95	224	SGR
	3600(4500)	575	444TS	D200V1GS	$13,917	DS-VSO	36.1	1100	95	179	SGR
	1800(3600)	460	445T	D200V2C	$15,572	DS-VSO	39.8	1200	95.8	225	SGR
	1800(3600)	575	445T	D200V2G	$15,572	DS-VSO	39.8	1200	95.8	182	SGR
	1200(2400)	460	447T	D200V3C	$19,649	DS-VSO	43.3	1700	95.4	250	SGR
	1200(2400)	575	447T	D200V3G	$19,649	DS-VSO	43.3	1700	95.4	205	SGR
250	3600(4500)	460	445TS	D250V1CS	$18,343	DS-VSO	36.1	1200	95	276	SGR
	3600(4500)	575	445TS	D250V1GS	$18,343	DS-VSO	36.1	1200	95	222	SGR
	1800(3600)	460	445T	D250V2C	$17,605	DS-VSO	39.8	1200	96.2	284	SGR
	1800(3600)	575	445T	D250V2G	$17,605	DS-VSO	39.8	1200	95.8	224	SGR

Note SGR Shaft Grounding Ring

SynRA™, Totally Enclosed Fan Cooled (TEFC), UNIMOUNT®, Super Premium Efficient T-Shaft



URJ, URK

APPLICATIONS:

For general industrial equipment including fans, blowers, pumps and direct connected equipment.

FEATURES:

- Aluminum Frame
- Synchronous Reluctance with Aluminum Cage
- Inverter Driven on v/hz or vector drive
- Class F Insulation
- 40°C Ambient
- Double Shielded Bearings
- Synchronous Performance
- Shaft Ground Ring

IE4 URJ T-Frame

HP	RPM	Volts	Frame	Catalog Number	List	Discount Symbol	Drive Size	Efficiency Level	Notes
2	3600	230/460	140T	UR2M1B	$862	DS-5RA	NO DRIVE	IE4	108
	1800	230/460	140T	UR2M2B	$766	DS-5RA	NO DRIVE	IE4	108
	1200	230/460	140T	UR2M3BF	$1,057	DS-5RA	NO DRIVE	IE4	
	1200	230/460	180T	UR2M3B	$1,057	DS-5RA	NO DRIVE	IE4	
3	3600	230/460	140T	UR3M1BF	$970	DS-5RA	NO DRIVE	IE4	
	3600	230/460	180T	UR3M1B	$970	DS-5RA	NO DRIVE	IE4	
	1800	230/460	140T	UR3M2BF	$858	DS-5RA	NO DRIVE	IE4	
	1800	230/460	180T	UR3M2B	$858	DS-5RA	NO DRIVE	IE4	
	1200	230/460	140T	UR3M3BN	$1,310	DS-5RA	NO DRIVE	IE4	
	1200	230/460	180T	UR3M3BF	$1,310	DS-5RA	NO DRIVE	IE4	
5	3600	230/460	140T	UR5M1BF	$1,217	DS-5RA	NO DRIVE	IE4	
	3600	230/460	180T	UR5M1B	$1,217	DS-5RA	NO DRIVE	IE4	
	1800	230/460	140T	UR5M2BF	$997	DS-5RA	NO DRIVE	IE4	
	1800	230/460	180T	UR5M2B	$997	DS-5RA	NO DRIVE	IE4	
	1200	230/460	180T	UR5M3BF	$1,876	DS-5RA	NO DRIVE	IE4	
7 1/2	3600	230/460	140T	UR7M1BN	$1,511	DS-5RA	NO DRIVE	IE4	
	3600	230/460	180T	UR7M1BF	$1,511	DS-5RA	NO DRIVE	IE4	
	1800	230/460	180T	UR7M2BF	$1,364	DS-5RA	NO DRIVE	IE4	
	1800	230/460	210T	UR7M2B	$1,364	DS-5RA	NO DRIVE	IE4	
10	3600	230/460	180T	UR10M1BF	$1,768	DS-5RA	NO DRIVE	IE4	
	3600	230/460	210T	UR10M1B	$1,768	DS-5RA	NO DRIVE	IE4	
	1800	230/460	180T	UR10M2BF	$1,647	DS-5RA	NO DRIVE	IE4	
	1800	230/460	210T	UR10M2B	$1,647	DS-5RA	NO DRIVE	IE4	
15	3600	230/460	180T	UR15M1BN	$2,529	DS-5RA	NO DRIVE	IE4	
	3600	230/460	210T	UR15M1BF	$2,529	DS-5RA	NO DRIVE	IE4	

IE5 URK T-Frame

HP	RPM	Volts	Frame	Catalog Number	List	Discount Symbol	Drive Size	Efficiency Level	Notes
2	3600	230/460	140T	UR2N1B	$949	DS-5RA	NO DRIVE	IE5	
	1800	230/460	140T	UR2N2B	$842	DS-5RA	NO DRIVE	IE5	
3	3600	230/460	140T	UR3N1BF	$1,067	DS-5RA	NO DRIVE	IE5	
	3600	230/460	180T	UR3N1B	$1,067	DS-5RA	NO DRIVE	IE5	
	1800	230/460	180T	UR3N2B	$944	DS-5RA	NO DRIVE	IE5	
5	3600	230/460	140T	UR5N1BF	$1,338	DS-5RA	NO DRIVE	IE5	
	3600	230/460	180T	UR5N1B	$1,338	DS-5RA	NO DRIVE	IE5	
	1800	230/460	180T	UR5N2B	$1,096	DS-5RA	NO DRIVE	IE5	
7 1/2	3600	230/460	180T	UR7N1BF	$1,663	DS-5RA	NO DRIVE	IE5	
10	3600	230/460	180T	UR10N1BF	$1,944	DS-5RA	NO DRIVE	IE5	
	3600	230/460	210T	UR10N1B	$1,944	DS-5RA	NO DRIVE	IE5	
15	3600	230/460	180T	UR15N1BN	$2,782	DS-5RA	NO DRIVE	IE5	
	3600	230/460	210T	UR15N1BF	$2,782	DS-5RA	NO DRIVE	IE5	

Note 108 Base has holes for 56H

SynRA™, Totally Enclosed Fan Cooled (TEFC), UNIMOUNT®, Super Premium Efficient, C-Face



URJ, URK

APPLICATIONS:

For general industrial equipment including fans, blowers, pumps and direct connected equipment.

FEATURES:

- Aluminum Frame
- Synchronous Reluctance with Aluminum Cage
- Inverter Driven on v/hz or vector drive
- Class F Insulation
- 40°C Ambient
- Shaft Slinger On Pulley End
- Double Shielded Bearings
- Synchronous Performance
- Shaft Ground Ring

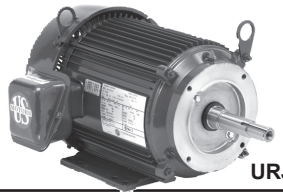
IE4 URJ C-Face

HP	RPM	Volts	Frame	Catalog Number	List	Discount Symbol	Drive Size	Efficiency Level	Notes
2	3600	230/460	140TC	UR2M1BC	$862	DS-5RA	NO DRIVE	IE4	
	1800	230/460	140TC	UR2M2BC	$766	DS-5RA	NO DRIVE	IE4	
	1200	230/460	140TC	UR2M3BFC	$1,057	DS-5RA	NO DRIVE	IE4	
	1200	230/460	180TCH	UR2M3BK	$1,057	DS-5RA	NO DRIVE	IE4	
3	3600	230/460	140TC	UR3M1BFC	$970	DS-5RA	NO DRIVE	IE4	
	3600	230/460	180TCH	UR3M1BK	$970	DS-5RA	NO DRIVE	IE4	
	3600	230/460	180TC	UR3M1BC	$970	DS-5RA	NO DRIVE	IE4	
	1800	230/460	140TC	UR3M2BFC	$858	DS-5RA	NO DRIVE	IE4	
	1800	230/460	180TCH	UR3M2BK	$858	DS-5RA	NO DRIVE	IE4	
	1800	230/460	180TC	UR3M2BC	$858	DS-5RA	NO DRIVE	IE4	
	1200	230/460	140TC	UR3M3BFC	$1,310	DS-5RA	NO DRIVE	IE4	
	1200	230/460	180TCH	UR3M3BFK	$1,310	DS-5RA	NO DRIVE	IE4	
5	3600	230/460	140TC	UR5M1BFC	$1,217	DS-5RA	NO DRIVE	IE4	
	3600	230/460	180TCH	UR5M1BK	$1,217	DS-5RA	NO DRIVE	IE4	
	1800	230/460	140TC	UR5M2BFC	$997	DS-5RA	NO DRIVE	IE4	
	1800	230/460	180TCH	UR5M2BK	$997	DS-5RA	NO DRIVE	IE4	
	1800	230/460	180TC	UR5M2BC	$997	DS-5RA	NO DRIVE	IE4	
	1200	230/460	180TCH	UR5M3BFK	$1,876	DS-5RA	NO DRIVE	IE4	
7 1/2	3600	230/460	140TC	UR7M1BNC	$1,511	DS-5RA	NO DRIVE	IE4	
	3600	230/460	180TCH	UR7M1BFK	$1,511	DS-5RA	NO DRIVE	IE4	
	3600	230/460	180TC	UR7M1BFC	$1,511	DS-5RA	NO DRIVE	IE4	
	1800	230/460	180TC	UR7M2BFC	$1,364	DS-5RA	NO DRIVE	IE4	
	1800	230/460	210TC	UR7M2BC	$1,364	DS-5RA	NO DRIVE	IE4	
10	3600	230/460	180TC	UR10M1BFC	$1,768	DS-5RA	NO DRIVE	IE4	
	3600	230/460	210TC	UR10M1BC	$1,768	DS-5RA	NO DRIVE	IE4	
	1800	230/460	180TC	UR10M2BFC	$1,647	DS-5RA	NO DRIVE	IE4	
	1800	230/460	210TC	UR10M2BC	$1,647	DS-5RA	NO DRIVE	IE4	
15	3600	230/460	180TC	UR15M1BNC	$2,529	DS-5RA	NO DRIVE	IE4	
	3600	230/460	210TC	UR15M1BFC	$2,529	DS-5RA	NO DRIVE	IE4	

IE5 URK C-Face

HP	RPM	Volts	Frame	Catalog Number	List	Discount Symbol	Drive Size	Efficiency Level	Notes
2	3600	230/460	140TC	UR2N1BC	$949	DS-5RA	NO DRIVE	IE5	
	1800	230/460	140TC	UR2N2BC	$842	DS-5RA	NO DRIVE	IE5	
3	3600	230/460	140TC	UR3N1BFC	$1,067	DS-5RA	NO DRIVE	IE5	
	3600	230/460	180TCH	UR3N1BK	$1,067	DS-5RA	NO DRIVE	IE5	
	3600	230/460	180TC	UR3N1BC	$1,067	DS-5RA	NO DRIVE	IE5	
	1800	230/460	180TCH	UR3N2BK	$944	DS-5RA	NO DRIVE	IE5	
	1800	230/460	180TC	UR3N2BC	$944	DS-5RA	NO DRIVE	IE5	
5	3600	230/460	140TC	UR5N1BFC	$1,338	DS-5RA	NO DRIVE	IE5	
	3600	230/460	180TCH	UR5N1BK	$1,338	DS-5RA	NO DRIVE	IE5	
	3600	230/460	180TC	UR5N1BC	$1,338	DS-5RA	NO DRIVE	IE5	
	1800	230/460	180TCH	UR5N2BK	$1,096	DS-5RA	NO DRIVE	IE5	
7 1/2	3600	230/460	180TCH	UR7N1BK	$1,663	DS-5RA	NO DRIVE	IE5	
10	3600	230/460	180TC	UR10N1BFC	$1,944	DS-5RA	NO DRIVE	IE5	
	3600	230/460	210TC	UR10N1BC	$1,944	DS-5RA	NO DRIVE	IE5	
15	3600	230/460	180TC	UR15N1BNC	$2,782	DS-5RA	NO DRIVE	IE5	
	3600	230/460	210TC	UR15N1BFC	$2,782	DS-5RA	NO DRIVE	IE5	

SynRA™, Totally Enclosed Fan Cooled (TEFC), Close Coupled Pump, UNIMOUNT®, Super Premium Efficient CCP



URJ4, URK4

APPLICATIONS:

For the specific requirements of centrifugal pumps where the pump impeller is mounted directly on the motor shaft. Used in damp, dusty or dirty environments.

FEATURES:

- Aluminum Frame
- Synchronous Reluctance with Aluminum Cage
- Inverter Driven on v/hz or vector drive
- Class F Insulation
- 40°C Ambient
- Shaft Slinger On Pulley End
- Double Shielded Bearings
- Synchronous Performance
- Shaft Ground Ring

IE4 URJ4 CCP

HP	RPM	Volts	Frame	Catalog Number	List	Discount Symbol	Drive Size	Efficiency Level	Notes
2	3600	230/460	140JM	URJ2M1BM	$1,003	DS-5RA	NO DRIVE	IE4	
	1800	230/460	140JM	URJ2M2BM	$906	DS-5RA	NO DRIVE	IE4	
	1200	230/460	140JM	URJ2M3BFM	$1,198	DS-5RA	NO DRIVE	IE4	
	1200	230/460	180JM	URJ2M3BM	$1,198	DS-5RA	NO DRIVE	IE4	
3	3600	230/460	140JM	URJ3M1BFM	$1,168	DS-5RA	NO DRIVE	IE4	
	3600	230/460	180JM	URJ3M1BM	$1,168	DS-5RA	NO DRIVE	IE4	
	1800	230/460	140JM	URJ3M2BFM	$1,056	DS-5RA	NO DRIVE	IE4	
	1800	230/460	180JM	URJ3M2BM	$1,056	DS-5RA	NO DRIVE	IE4	
	1200	230/460	140JM	URJ3M3BNM	$1,508	DS-5RA	NO DRIVE	IE4	
	1200	230/460	180JM	URJ3M3BFM	$1,508	DS-5RA	NO DRIVE	IE4	
5	3600	230/460	140JM	URJ5M1BFM	$1,415	DS-5RA	NO DRIVE	IE4	
	3600	230/460	180JM	URJ5M1BM	$1,415	DS-5RA	NO DRIVE	IE4	
	1800	230/460	140JM	URJ5M2BFM	$1,195	DS-5RA	NO DRIVE	IE4	
	1800	230/460	180JM	URJ5M2BM	$1,195	DS-5RA	NO DRIVE	IE4	
	1200	230/460	180JM	URJ5M3BFM	$2,074	DS-5RA	NO DRIVE	IE4	
7 1/2	3600	230/460	140JM	URJ7M1BNM	$1,718	DS-5RA	NO DRIVE	IE4	
	3600	230/460	180JM	URJ7M1BFM	$1,718	DS-5RA	NO DRIVE	IE4	
	1800	230/460	180JM	URJ7M2BFM	$1,571	DS-5RA	NO DRIVE	IE4	
	1800	230/460	210JM	URJ7M2BM	$1,571	DS-5RA	NO DRIVE	IE4	
10	3600	230/460	180JM	URJ10M1BFM	$1,975	DS-5RA	NO DRIVE	IE4	
	3600	230/460	210JM	URJ10M1BM	$1,975	DS-5RA	NO DRIVE	IE4	
	1800	230/460	180JM	URJ10M2BFM	$1,854	DS-5RA	NO DRIVE	IE4	
	1800	230/460	210JM	URJ10M2BM	$1,854	DS-5RA	NO DRIVE	IE4	
15	3600	230/460	180JM	URJ15M1BNM	$2,736	DS-5RA	NO DRIVE	IE4	
	3600	230/460	210JM	URJ15M1BFM	$2,736	DS-5RA	NO DRIVE	IE4	

IE5 URK4 CCP

HP	RPM	Volts	Frame	Catalog Number	List	Discount Symbol	Drive Size	Efficiency Level	Notes
2	3600	230/460	140JM	URJ2N1BM	$1,104	DS-5RA	NO DRIVE	IE5	
	1800	230/460	140JM	URJ2N2BM	$997	DS-5RA	NO DRIVE	IE5	
3	3600	230/460	140JM	URJ3N1BFM	$1,285	DS-5RA	NO DRIVE	IE5	
	3600	230/460	180JM	URJ3N1BM	$1,285	DS-5RA	NO DRIVE	IE5	
	1800	230/460	180JM	URJ3N2BM	$1,162	DS-5RA	NO DRIVE	IE5	
5	3600	230/460	140JM	URJ5N1BFM	$1,556	DS-5RA	NO DRIVE	IE5	
	3600	230/460	180JM	URJ5N1BM	$1,556	DS-5RA	NO DRIVE	IE5	
	1800	230/460	180JM	URJ5N2BM	$1,314	DS-5RA	NO DRIVE	IE5	
7 1/2	3600	230/460	180JM	URJ7N1BFM	$1,890	DS-5RA	NO DRIVE	IE5	
10	3600	230/460	180JM	URJ10N1BFM	$2,172	DS-5RA	NO DRIVE	IE5	
	3600	230/460	210JM	URJ10N1BM	$2,172	DS-5RA	NO DRIVE	IE5	
15	3600	230/460	180JM	URJ15N1BNM	$3,009	DS-5RA	NO DRIVE	IE5	
	3600	230/460	210JM	URJ15N1BFM	$3,009	DS-5RA	NO DRIVE	IE5	

SynRA™, Totally Enclosed Fan Cooled (TEFC), STEEL EDGE®, Super Premium Efficient T-Shaft



SRI, SRJ, SRK

APPLICATIONS:

For general industrial equipment including fans, blowers, pumps and direct connected equipment.

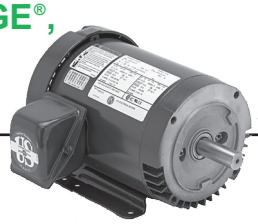
FEATURES:

- Rolled Steel Frame
- Synchronous Reluctance with Aluminum Cage
- Inverter Driven on v/hz or vector drive
- Class F Insulation
- 40°C Ambient
- Double Shielded Bearings
- Synchronous Performance
- Shaft Ground Ring

SRI, SRJ, SRK T-Frame

HP	RPM	Volts	Frame	Catalog Number	List	Discount Symbol	Drive Size	Efficiency Level	Notes
2	3600	230/460	56	SR2M1BF	$823	DS-5RA	NO DRIVE	IE4	
	3600	230/460	140T	SR2M1B	$823	DS-5RA	NO DRIVE	IE4	
	1800	230/460	56	SR2M2BF	$731	DS-5RA	NO DRIVE	IE4	
	1800	230/460	140T	SR2M2B	$731	DS-5RA	NO DRIVE	IE4	
3	3600	230/460	56	SR3M1BN	$926	DS-5RA	NO DRIVE	IE4	
	3600	230/460	140T	SR3M1BF	$926	DS-5RA	NO DRIVE	IE4	
	3600	230/460	180T	SR3M1B	$926	DS-5RA	NO DRIVE	IE4	
	1800	230/460	56	SR3M2BN	$819	DS-5RA	NO DRIVE	IE4	
	1800	230/460	140T	SR3M2BF	$819	DS-5RA	NO DRIVE	IE4	
	1800	230/460	180T	SR3M2B	$819	DS-5RA	NO DRIVE	IE4	
5	3600	230/460	56	SR5M1BN	$926	DS-5RA	NO DRIVE	IE4	
	3600	230/460	140T	SR5M1BF	$926	DS-5RA	NO DRIVE	IE4	
	3600	230/460	180T	SR5M1B	$926	DS-5RA	NO DRIVE	IE4	
7 1/2	3600	230/460	180T	SR7M1BF	$1,443	DS-5RA	NO DRIVE	IE4	
	1800	230/460	180T	SR7M2BF	$1,302	DS-5RA	NO DRIVE	IE4	
	1800	230/460	210T	SR7M2B	$1,302	DS-5RA	NO DRIVE	IE4	
10	3600	230/460	180T	SR10M1BF	$1,687	DS-5RA	NO DRIVE	IE4	
	3600	230/460	210T	SR10M1B	$1,687	DS-5RA	NO DRIVE	IE4	
15	3600	230/460	180T	SR15M1BN	$2,414	DS-5RA	NO DRIVE	IE4	
	3600	230/460	210T	SR15M1BF	$2,414	DS-5RA	NO DRIVE	IE4	

SynRA™, Totally Enclosed Fan Cooled (TEFC), STEEL EDGE®, Super Premium Efficient, C-Face



SRI, SRJ, SRK

APPLICATIONS:

For general industrial equipment including fans, blowers, pumps and direct connected equipment.

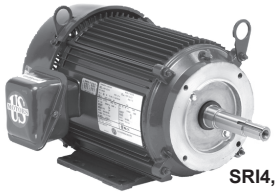
FEATURES:

- Rolled Steel Frame
- Synchronous Reluctance with Aluminum Cage
- Inverter Driven on v/hz or vector drive
- Class F Insulation
- 40°C Ambient
- Shaft Slinger On Pulley End
- Double Shielded Bearings
- Synchronous Performance
- Shaft Ground Ring

SRI, SRJ, SRK C-Face

HP	RPM	Volts	Frame	Catalog Number	List	Discount Symbol	Drive Size	Efficiency Level	Notes
2	3600	230/460	56C	SR2M1BFC	$823	DS-5RA	NO DRIVE	IE4	
	3600	230/460	140TC	SR2M1BC	$823	DS-5RA	NO DRIVE	IE4	
	1800	230/460	56C	SR2M2BFC	$731	DS-5RA	NO DRIVE	IE4	
	1800	230/460	140TC	SR2M2BC	$731	DS-5RA	NO DRIVE	IE4	
3	3600	230/460	56C	SR3M1BNC	$926	DS-5RA	NO DRIVE	IE4	
	3600	230/460	140TC	SR3M1BFC	$926	DS-5RA	NO DRIVE	IE4	
	3600	230/460	180TCH	SR3M1BK	$926	DS-5RA	NO DRIVE	IE4	
	3600	230/460	180TC	SR3M1BC	$926	DS-5RA	NO DRIVE	IE4	
	1800	230/460	56C	SR3M2BNC	$819	DS-5RA	NO DRIVE	IE4	
	1800	230/460	140TC	SR3M2BFC	$819	DS-5RA	NO DRIVE	IE4	
	1800	230/460	180TCH	SR3M2BK	$819	DS-5RA	NO DRIVE	IE4	
	1800	230/460	180TC	SR3M2BC	$819	DS-5RA	NO DRIVE	IE4	
5	3600	230/460	56C	SR5M1BNC	$1,161	DS-5RA	NO DRIVE	IE4	
	3600	230/460	140TC	SR5M1BFC	$1,161	DS-5RA	NO DRIVE	IE4	
	3600	230/460	180TCH	SR5M1BK	$1,161	DS-5RA	NO DRIVE	IE4	
	3600	230/460	180TC	SR5M1BC	$1,161	DS-5RA	NO DRIVE	IE4	
7 1/2	3600	230/460	180TCH	SR7M1BFK	$1,443	DS-5RA	NO DRIVE	IE4	
	3600	230/460	180TC	SR7M1BFC	$1,443	DS-5RA	NO DRIVE	IE4	
	1800	230/460	180TC	SR7M2BFC	$1,302	DS-5RA	NO DRIVE	IE4	
	1800	230/460	210TC	SR7M2BC	$1,302	DS-5RA	NO DRIVE	IE4	
10	3600	230/460	180TC	SR10M1BFC	$1,687	DS-5RA	NO DRIVE	IE4	
	3600	230/460	210TC	SR10M1BC	$1,687	DS-5RA	NO DRIVE	IE4	
15	3600	230/460	180TC	SR15M1BNC	$2,414	DS-5RA	NO DRIVE	IE4	
	3600	230/460	210TC	SR15M1BFC	$2,414	DS-5RA	NO DRIVE	IE4	

SynRA™, Close Coupled Pump, Totally Enclosed Fan Cooled (TEFC), STEEL EDGE®, Super Premium Efficient, CCP



SRI4, SRJ4, SRK4

APPLICATIONS:

For the specific requirements of centrifugal pumps where the pump impeller is mounted directly on the motor shaft. Used in damp, dusty or dirty environments.

FEATURES:

- Rolled Steel Frame
- Synchronous Reluctance with Aluminum Cage
- Inverter Driven on v/hz or vector drive
- Class F Insulation
- 40°C Ambient
- Shaft Slinger On Pulley End
- Double Shielded Bearings
- Synchronous Performance
- Shaft Ground Ring

SRI4, SRJ4, SRK4

HP	RPM	Volts	Frame	Catalog Number	List	Discount Symbol	Drive Size	Efficiency Level	Notes
2	3600	230/460	56J	JTR2M1BFM	$958	DS-5RA	NO DRIVE	IE4	
	3600	230/460	140JM	SRJ2M1BM	$958	DS-5RA	NO DRIVE	IE4	
	1800	230/460	56J	JTR2M2BFM	$865	DS-5RA	NO DRIVE	IE4	
	1800	230/460	140JM	SRJ2M2BM	$865	DS-5RA	NO DRIVE	IE4	
3	3600	230/460	56J	JTR3M1BNM	$1,115	DS-5RA	NO DRIVE	IE4	
	3600	230/460	140JM	SRJ3M1BFM	$1,115	DS-5RA	NO DRIVE	IE4	
	3600	230/460	180JM	SRJ3M1BM	$1,115	DS-5RA	NO DRIVE	IE4	
	1800	230/460	56J	JTR3M2BNM	$1,008	DS-5RA	NO DRIVE	IE4	
	1800	230/460	140JM	SRJ3M2BFM	$1,008	DS-5RA	NO DRIVE	IE4	
	1800	230/460	180JM	SRJ3M2BM	$1,008	DS-5RA	NO DRIVE	IE4	
5	3600	230/460	56J	JTR5M1B	$1,350	DS-5RA	NO DRIVE	IE4	
	3600	230/460	140JM	SRJ5M1BFM	$1,350	DS-5RA	NO DRIVE	IE4	
	3600	230/460	180JM	SRJ5M1BM	$1,350	DS-5RA	NO DRIVE	IE4	
7 1/2	3600	230/460	180JM	SRJ7M1BFM	$1,640	DS-5RA	NO DRIVE	IE4	
	1800	230/460	180JM	SRJ7M2BFM	$1,499	DS-5RA	NO DRIVE	IE4	
	1800	230/460	210JM	SRJ7M2BM	$1,499	DS-5RA	NO DRIVE	IE4	
10	3600	230/460	180JM	SRJ10M1BFM	$1,885	DS-5RA	NO DRIVE	IE4	
	3600	230/460	210JM	SRJ10M1BM	$1,885	DS-5RA	NO DRIVE	IE4	
15	3600	230/460	180JM	SRJ15M1BNM	$2,611	DS-5RA	NO DRIVE	IE4	
	3600	230/460	210JM	SRJ15M1BFM	$2,611	DS-5RA	NO DRIVE	IE4	

Integrated Motor & Control Products (IMAC)

Horsepower: 1 – 10 HP

Phase: Three Phase

RPM: Inverter Duty 6:1 (10-60 Hz) Variable Speed

Voltage: 230 or 460

Speed Ranges detailed for both Variable Torque loads (Fans and Centrifugal Pumps) and Constant Torque loads (Compressors & Hydraulic Pumps)

Motor Enclosure: Totally Enclosed Fan Cooled (TEFC)

Mounting: Foot Mounted, C-Face, and JM Close-Coupled Pump Mounting



Air Compressors
Average Load = 72.1% of Maximum



Commercial Fans
Average Load = 69.6% of Maximum



Commercial Pumps
Average Load = 67.1% of Maximum

• An independent study finds fans, pumps, and compressor motors are, on average, 20% oversized.

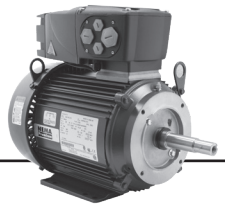
• The same independent study finds fans, pumps, and compressors follow the affinity laws and have large energy savings potential as reduced motor speeds result in much larger power reduction.

The capability of adjusting the speed to match load profiles is why IMAC's save your customers utility cost dollars

ID300 Advantages for Pump and Fan applications:

- Eliminate separate mounting of VFD
- Eliminate separate procurement of the VFD
- No calibration of drive to motor
- Motor and Drive optimally designed to work together
- Reduced radio frequency due to proximity of drive to motor
- IE3 efficiency
- Lowest lifetime cost of operation option for commercial building applications
- Connect to building automation systems
- Energy Efficient Drop-in replacement for induction motor
- Call Nidec for any questions for both the motor and drive

ID300 Fusion™ - Integrated Motor and Drive, TEFC Premium Efficient, Inverter Duty 6:1 (10-60 Hz) Speed Range Variable Torque



APPLICATIONS:

Integrated motor and drive combination for pumping and air moving in commercial and industrial applications.

FEATURES:

- IP55, Die-Cast Aluminum (VFD) - Motor IP54 Extruded Aluminum
- Electronics encapsulated in Resin
- Side Flanges for Cable Entry & Accessories
- Removable Top Cover for Access
- Control in Open Loop V/F Mode
- Modbus RJ45
- Removable Feet on motor
- C-Face and D-Flange Kits Available
- Onboard PLC
- Real time clock
- Commission via Desktop App or optional Keypad
- Up to three Analog Input Channels
- 3 additional Digital Inputs, 1 Digital Output shared with Analog Channels
- User programmable for Voltage (0-10V) or Current (4-20mA) Feedback
- NEMA®† Premium Inverter Duty Motor
- Motor Double Dip & Bake - 1/2 NEMA®† Balance

Option List Prices: Add motor & required options list prices, then use applicable multiplier to calculate net price

Communications & I/O Options	LIST
Modbus RTU RS232/RS485	Included
Ethernet	$445
I/O Expansion Module	$275
Communication Converter Cable	$250

HMI Options	LIST
Drive Mounted Keypad Size 1 and 2	$300
Drive Mounted Keypad Size 3	$350
Remote Keypad with cables	$205
Flange with speed pot and start/stop buttons	$160
Flange with RJ45 port	$100

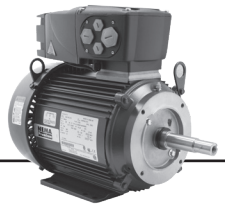
Filters	LIST
EMC Filter	$240

T-Frame

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Motor Full Load Eff. (NP)	Drive Input Amps	Constant Torque Range	Notes
1	3600	230	143T	U1V1KG3ID11	$1,072	DS-5ID	1.15	12.97	41	84.0%	8.1	20-60Hz	ID300
	3600	460	143T	U1V1CG3ID11	$1,105	DS-5ID	1.15	12.97	41	84.0%	3.4	15-60Hz	ID300
	1800	230	143T	U1V2K3ID11	$1,050	DS-5ID	1.15	12.97	41	85.5%	8.1	10-60Hz	ID300
	1800	460	143T	U1V2C3ID11	$1,082	DS-5ID	1.15	12.97	41	85.5%	3.4	10-60Hz	ID300
2	3600	230	145T	U2V1K3ID12	$1,298	DS-5ID	1.15	14.31	46	85.5%	14.3	20-60Hz	ID300
	3600	460	145T	U2V1C3ID11	$1,338	DS-5ID	1.15	12.97	46	85.5%	3.9	15-60Hz	ID300
	1800	230	145T	U2V2K3ID12	$1,271	DS-5ID	1.15	14.31	46	86.5%	14.3	10-60Hz	ID300
	1800	460	145T	U2V2C3ID11	$1,311	DS-5ID	1.15	12.97	46	86.5%	3.9	20-60Hz	ID300
3	3600	230	182T	U3V1K3ID12	$1,699	DS-5ID	1.15	18.40	78	86.5%	12.2	20-60Hz	ID300
	3600	460	182T	U3V1C3ID12	$1,751	DS-5ID	1.15	16.25	71	86.5%	7.5	15-60Hz	ID300
	1800	230	182T	U3V2K3ID12	$1,664	DS-5ID	1.15	18.40	78	89.5%	12.2	20-60Hz	ID300
	1800	460	182T	U3V2C3ID12	$1,715	DS-5ID	1.15	16.25	71	89.5%	7.5	10-60Hz	ID300
5	3600	230	184T	U5V1K3ID13	$1,827	DS-5ID	1.15	16.25	88	88.5%	14.8	15-60Hz	ID300
	3600	460	184T	U5V1C3ID12	$1,883	DS-5ID	1.15	16.25	81	88.5%	9.5	20-60Hz	ID300
	1800	230	184T	U5V2K3ID13	$1,789	DS-5ID	1.15	17.00	88	89.5%	14.8	15-60Hz	ID300
	1800	460	184T	U5V2C3ID12	$1,844	DS-5ID	1.15	17.00	81	89.5%	9.5	10-60Hz	ID300
7.5	3600	460	213T	U7V1C3ID13	$2,448	DS-5ID	1.15	16.63	123	89.5%	13.0	15-60Hz	ID300
	1800	460	213T	U7V2C3ID13	$2,398	DS-5ID	1.15	16.63	123	91.7%	13.0	10-60Hz	ID300
10	3600	460	215T	U10V1C3ID13	$2,867	DS-5ID	1.15	20.13	138	90.2%	16.0	30-60Hz	ID300
	1800	460	215T	U10V2C3ID13	$2,808	DS-5ID	1.15	20.13	138	91.7%	16.0	20-60Hz	ID300

Note ID300 Motor is integrated with an ID300 drive

ID300 Fusion™ - Integrated Motor and Drive, TEFC Premium Efficient, Inverter Duty 6:1 (10-60 Hz) Speed Range Variable Torque



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Close-Coupled Pump

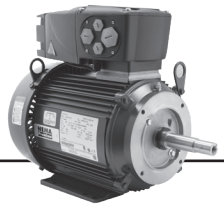
HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Motor Full Load Eff. (NP)	Drive Input Amps	Constant Torque Range	Notes
3	3600	230	182JM	UJ3V1KM3ID13	$1,815	DS-5ID	1.15	19.97	78	86.5%	12.2	NA	ID300
	3600	460	182JM	UJ3V1CM3ID12	$1,871	DS-5ID	1.15	17.81	71	86.5%	7.5	NA	ID300
	1800	230	182JM	UJ3V2KM3ID13	$1,780	DS-5ID	1.15	19.97	78	89.5%	12.2	NA	ID300
	1800	460	182JM	UJ3V2CM3ID12	$1,835	DS-5ID	1.15	17.81	71	89.5%	7.5	NA	ID300
5	3600	230	184JM	UJ5V1KM3ID13	$1,943	DS-5ID	1.15	17.81	88	88.5%	14.8	NA	ID300
	3600	460	184JM	UJ5V1CM3ID12	$2,003	DS-5ID	1.15	17.81	81	88.5%	9.5	NA	ID300
	1800	230	184JM	UJ5V2KM3ID13	$1,905	DS-5ID	1.15	18.56	88	89.5%	14.8	NA	ID300
	1800	460	184JM	UJ5V2CM3ID12	$1,964	DS-5ID	1.15	18.56	81	89.5%	9.5	NA	ID300
7.5	3600	460	213JM	UJ7V1CM3ID13	$2,603	DS-5ID	1.15	19.78	123	89.5%	13.0	NA	ID300
	1800	460	213JM	UJ7V2CM3ID13	$2,553	DS-5ID	1.15	19.78	123	91.7%	13.0	NA	ID300
10	3600	460	215JM	UJ10V1CM3ID13	$3,022	DS-5ID	1.15	21.28	138	91.7%	16.0	NA	ID300
	1800	460	215JM	UJ10V2CM3ID13	$2,963	DS-5ID	1.15	21.28	138	91.7%	16.0	NA	ID300

C-Face

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Motor Full Load Eff. (NP)	Drive Input Amps	Constant Torque Range	Notes
1	3600	230	56C	U1V1KC3ID11	$1,149	DS-5ID	1.15	13.06	35	84.0%	8.10	NA	ID300
	3600	460	56C	U1V1CC3ID11	$1,184	DS-5ID	1.15	13.06	35	84.0%	3.40	NA	ID300
	1800	230	56C	U1V2KFC3ID11	$1,126	DS-5ID	1.15	13.06	41	85.5%	8.10	NA	ID300
	1800	460	56C	U1V2CFC3ID11	$1,161	DS-5ID	1.15	13.06	41	85.5%	3.40	NA	ID300
	1800	230	143TC	U1V2KC3ID11	$1,126	DS-5ID	1.15	13.13	41	85.5%	8.10	NA	ID300
	1800	460	143TC	U1V2CC3ID11	$1,161	DS-5ID	1.15	13.13	41	85.5%	3.40	NA	ID300
2	3600	230	56C	U2V1KFC3ID12	$1,375	DS-5ID	1.15	13.38	41	85.5%	14.30	NA	ID300
	3600	460	56C	U2V1CFC3ID11	$1,417	DS-5ID	1.15	13.06	41	85.5%	3.90	NA	ID300
	3600	230	143TC	U2V1KC3ID12	$1,375	DS-5ID	1.15	13.44	46	85.5%	14.30	NA	ID300
	3600	460	143TC	U2V1CC3ID11	$1,417	DS-5ID	1.15	13.13	46	85.5%	3.90	NA	ID300
	1800	230	56C	U2V2KFC3ID12	$1,348	DS-5ID	1.15	13.38	41	86.5%	14.30	NA	ID300
	1800	460	56C	U2V2CFC3ID11	$1,390	DS-5ID	1.15	13.06	41	86.5%	3.90	NA	ID300
	1800	230	143TC	U2V2KC3ID12	$1,348	DS-5ID	1.15	13.44	46	86.5%	14.30	NA	ID300
	1800	460	143TC	U2V2CC3ID11	$1,390	DS-5ID	1.15	13.13	46	86.5%	3.90	NA	ID300
3	3600	230	182TC	U3V1KC3ID13	$1,790	DS-5ID	1.15	18.34	78	86.5%	12.20	NA	ID300
	3600	460	182TC	U3V1CC3ID12	$1,845	DS-5ID	1.15	16.19	71	86.5%	7.50	NA	ID300
	1800	230	182TC	U3V2KC3ID13	$1,755	DS-5ID	1.15	18.34	78	89.5%	12.20	NA	ID300
	1800	460	182TC	U3V2CC3ID12	$1,809	DS-5ID	1.15	16.19	71	89.5%	7.50	NA	ID300
5	3600	230	184TC	U5V1KC3ID13	$1,918	DS-5ID	1.15	16.19	88	88.5%	14.80	NA	ID300
	3600	460	184TC	U5V1CC3ID12	$1,977	DS-5ID	1.15	16.19	81	88.5%	9.50	NA	ID300
	1800	230	184TC	U5V2KC3ID13	$1,880	DS-5ID	1.15	16.94	88	89.5%	14.80	NA	ID300
	1800	460	184TC	U5V2CC3ID12	$1,938	DS-5ID	1.15	16.94	81	89.5%	9.50	NA	ID300
7.5	3600	460	213TC	U7V1CC3ID13	$2,562	DS-5ID	1.15	18.66	123	89.5%	13.00	NA	ID300
	1800	460	213TC	U7V2CC3ID13	$2,512	DS-5ID	1.15	18.66	123	91.7%	13.00	NA	ID300
10	3600	460	215TC	U10V1CC3ID13	$2,981	DS-5ID	1.15	20.16	138	91.7%	16.00	NA	ID300
	1800	460	215TC	U10V2CC3ID13	$2,922	DS-5ID	1.15	20.16	138	91.7%	16.00	NA	ID300

Note ID300 Motor is integrated with an ID300 drive

ID300 Fusion™ - Integrated Motor and Drive, TEFC Premium Efficient, Inverter Duty 6:1 (10-60 Hz) Speed Range Variable Torque



(continued)

C-Face Footless

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Motor Full Load Eff. (NP)	Drive Input Amps	Constant Torque Range	Notes
1	3600	230	56C	U1V1KCRID11	$1,134	DS-5ID	1.15	12.06	40	84.0%	8.10	NA	ID300
	3600	460	56C	U1V1CCRID11	$1,169	DS-5ID	1.15	12.06	40	84.0%	3.40	NA	ID300
	1800	230	56C	U1V2KFCRID11	$1,111	DS-5ID	1.15	13.06	41	85.5%	8.10	NA	ID300
	1800	460	56C	U1V2CFCRID11	$1,146	DS-5ID	1.15	13.06	41	85.5%	3.40	NA	ID300
	1800	230	143TC	U1V2KCRID11	$1,111	DS-5ID	1.15	13.13	41	85.5%	8.10	NA	ID300
	1800	460	143TC	U1V2CCRID11	$1,146	DS-5ID	1.15	13.13	41	85.5%	3.40	NA	ID300
2	3600	230	56C	U2V1KFCRID12	$1,360	DS-5ID	1.15	13.38	41	85.5%	14.30	NA	ID300
	3600	460	56C	U2V1CFCRID11	$1,402	DS-5ID	1.15	12.06	41	85.5%	3.90	NA	ID300
	3600	230	143TC	U2V1KCRID12	$1,360	DS-5ID	1.15	13.44	46	85.5%	14.30	NA	ID300
	3600	460	143TC	U2V1CCRID11	$1,402	DS-5ID	1.15	12.13	46	85.5%	3.90	NA	ID300
	1800	230	56C	U2V2KFCRID12	$1,333	DS-5ID	1.15	13.38	41	86.5%	14.30	NA	ID300
	1800	460	56C	U2V2CFCRID11	$1,375	DS-5ID	1.15	13.06	41	86.5%	3.90	NA	ID300
	1800	230	143TC	U2V2KCRID12	$1,333	DS-5ID	1.15	13.44	46	86.5%	14.30	NA	ID300
	1800	460	143TC	U2V2CCRID11	$1,375	DS-5ID	1.15	13.13	46	86.5%	3.90	NA	ID300

Note ID300 Motor is integrated with an ID300 drive

Brakemotors

Horsepower: 1/3 – 20 HP

Phase: Three Phase

RPM: 1800 RPM

Voltage: 208-230/460 60 Hertz 1.15 Service Factor 190/380 50 Hertz 1.0 Service Factor

Mounting Options:
Horizontal or Vertical position. Available in 3 configurations:
- Footed
- C-Face Footed
- C-Face Footless

Enclosure:
Totally Enclosed Fan Cooled (TEFC)

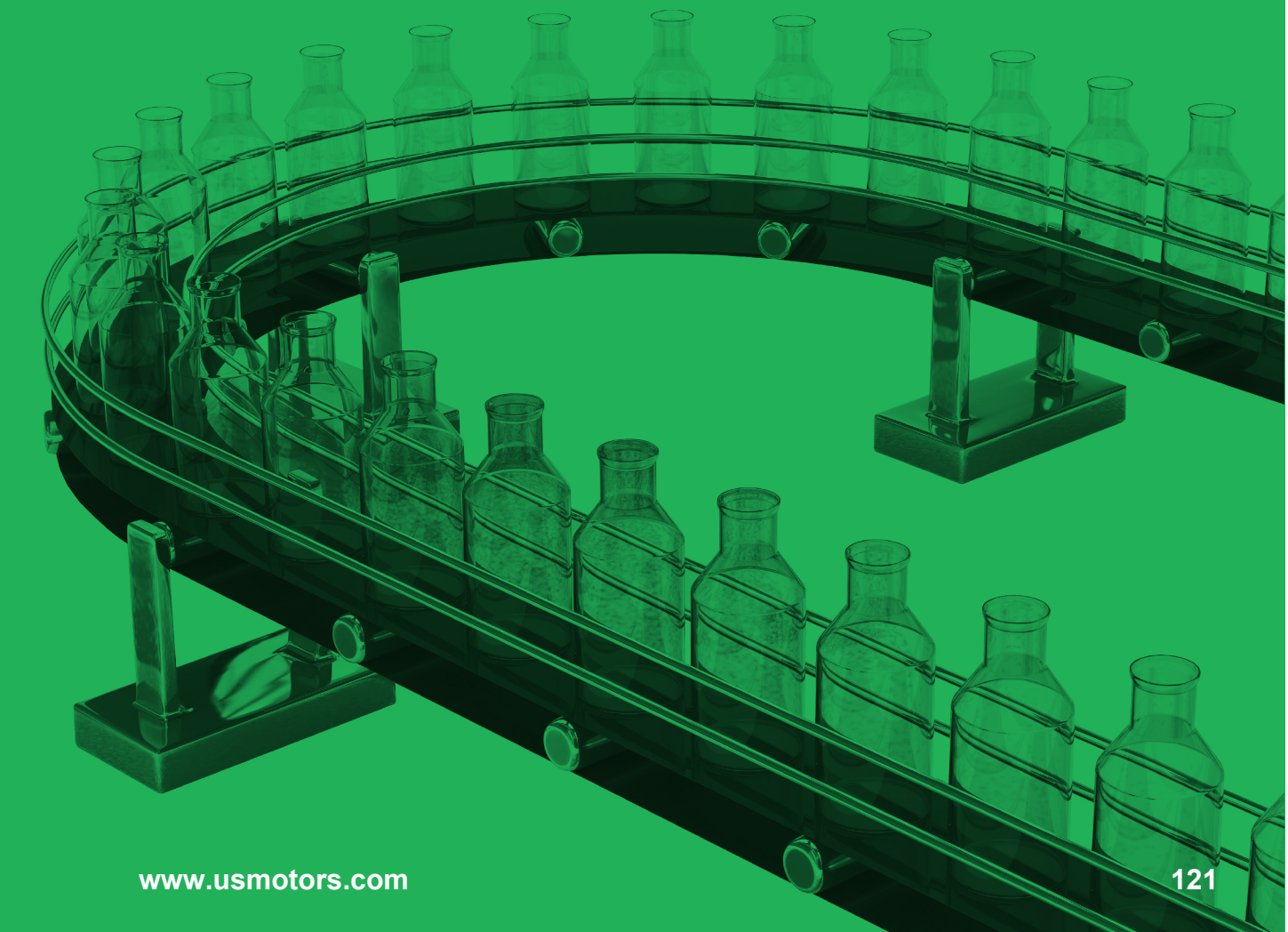
Bearings: Non-Regreasable oversized bearings

Construction:
IP55 Pressure Die-cast aluminum frame

Impregnation:
Vacuum Pressure Impregnation (VPI)

Inverter Duty:
Constant Torque 2:1 Variable Torque 10:1 speed range

Agency:
UL®† Recognized and CSA®† Certified



UNIMOUNT® Brakemotor
Totally Enclosed Fan Cooled (TEFC) Motor



APPLICATIONS:

For use on conveyors, machine tools, door operators, speed reducers, or any application requiring quick stops and positive holds.

FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- Aluminum Frame (180 Frame)
- Rolled Steel Frame (56-140 Frames)
- Full 50 & 60 Hertz Operating on Nameplate (3)
- 40°C Ambient, NEMA® Design B Performance On 60 Hertz Sine Wave Power
- Full HP @ 50 Hertz
- Double Shielded Bearings (180 Frame)
- Dual Voltage Ratings Suitable for Part Winding Start (PWS) on Low Voltage
- Lifting Provisions (180 Frame)
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

Footed

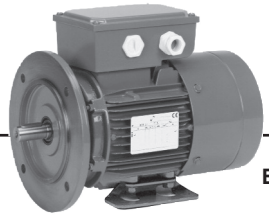
HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Brake Torque (lb-ft)	Notes
1/2	1800	208-230/460	56	BMU12S2A	$1,011	DS-3BMR	1.25	17.4	35	75.5	1.8-1.7/0.9	3.0	
3/4	1800	208-230/460	56	BMU34S2A	$1,182	DS-3BMR	1.25	17.4	35	78.5	2.6-2.7/1.3	6.0	
1	1800	208-230/460	143T	BMU1P2D	$1,461	DS-3BMR	1.25	17.4	35	85.5	3.1-3/1.5	6.0	
	1800	208-230/460	143T	BMU1S2A	$1,328	DS-3BMR	1.25	17.6	42	81.5	3.1-3.2/1.6	6.0	LA
1 1/2	1800	208-230/460	56	BMU32P2D	$1,703	DS-3BMR	1.25	17.4	35	86.5	4.5-4.3/2.1	10.0	
2	1800	208-230/460	145T	BMU2P2D	$1,683	DS-3BMR	1.25	17.4	35	86.5	5.9-5.7/2.8	10.0	
3	1800	208-230/460	182T	BMU3P2D	$2,277	DS-3BMR	1.25	21.6	170	89.5	8.4-7.8/3.9	15.0	
5	1800	208-230/460	184T	BMU5P2D	$2,830	DS-3BMR	1.25	21.6	85	90.2	13.6-12.3/6.2	25.0	

C-Face Footless

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Brake Torque (lb-ft)	Notes
1/2	1800	208-230/460	56C	BMU12S2ACR	$1,034	DS-3BMR	1.25	15.6	30	75.5	1.8-1.7/0.9	3.0	
3/4	1800	208-230/460	56C	BMU34S2AFCR	$1,213	DS-3BMR	1.25	15.6	37	78.5	2.6-2.7/1.3	6.0	
1	1800	208-230/460	56C	BMU1P2DFCR	$1,540	DS-3BMR	1.25	17.9	35	85.5	3.1-3/1.5	6.0	
	1800	208-230/460	143TC	BMU1P2DCR	$1,485	DS-3BMR	1.25	17.9	35	85.5	3.1-3/1.5	6.0	
1 1/2	1800	208-230/460	56C	BMU32P2DFCR	$1,728	DS-3BMR	1.25	17.9	35	86.5	4.5-4.3/2.1	10.0	
	1800	208-230/460	145TC	BMU32P2DCR	$1,666	DS-3BMR	1.25	17.9	35	86.5	4.5-4.3/2.1	10.0	
2	1800	208-230/460	56C	BMU2P2DFCR	$1,771	DS-3BMR	1.25	17.9	35	86.5	5.9-5.7/2.8	10.0	
	1800	208-230/460	145TC	BMU2P2DCR	$1,713	DS-3BMR	1.25	17.9	35	86.5	5.9-5.7/2.8	10.0	
3	1800	208-230/460	182TC	BMU3P2DCR	$2,393	DS-3BMR	1.25	21.6	70	89.5	8.4-7.8/3.9	15.0	
5	1800	208-230/460	184TC	BMU5P2DCR	$2,954	DS-3BMR	1.25	22.3	85	90.2	13.6-12.3/6.2	25.0	

Note LA Limited Availability

Definite Purpose Totally Enclosed Fan Cooled (TEFC) Motor
FCR Series Brakemotor



BRFC

APPLICATIONS:

For manual release, brake torque adjustments, external air gap adjustments and where high cycling is required.
Bulk material handling equipment, conveyors, cranes and hoists.

FEATURES:

- Class F Insulation
- Pressure Die Cast Aluminum Alloy Frame
- Non-Regreasable, Oversized Ball Bearings (56-250 Frame)
- F0 Assembly Position (Conduit Box On Top)
- High Braking Torque (Heavy Duty)
- 180 Volt DC Brake Coil (Rectifier Included)
- 1.15 Service Factor @ 60 Hertz, 40°C Ambient, Continuous Duty
- Simple Manual Brake Release Option Available
- Air Gap Can Be Adjusted Easily
- Suitable For Use On The Following:
  - 60 Hertz 208-203/460 Volt - 9 Leads
  - 50 Hertz 380 Volt (1.0 Service Factor) - 9 Leads
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

C-Face Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	NEMA Nom. Eff.	Brake Torque (lb-ft)	Notes
1/3	1800	208-230/460	56C	BR13S2AC3	$1,523	DS-3LS	1.15	13.0	20	67.5	1.5-1.3/0.65	4.4	

C-Face Footless

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	NEMA Nom. Eff.	Brake Torque (lb-ft)	Notes
1/3	1800	208-230/460	56C	BR13S2ACR3	$1,453	DS-3LS	1.15	13.0	20	67.5	1.5-1.3/0.65	4.4	

Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	NEMA Nom. Eff.	Brake Torque (lb-ft)	Notes
1/3	1800	208-230/460	56	BR13S2A3	$1,377	DS-3LS	1.15	13.0	20	67.5	1.5-1.3/0.65	4.4	
3/4	1800	208-230/460	56	BR34S2A3	$1,412	DS-3LS	1.15	13.0	34	74.7	2.8-2.6/1.3	4.4	

FCR Brakemotor Kits

APPLICATIONS:

Kits designed for conversion of off-the-shelf motors to accommodate the listed features below.

Braking Torque Change

Frame	Catalog Number	List	Discount Symbol	Notes
145	RST010RC011	$6	DS-3LS	
184	RST012RC004	$6	DS-3LS	

Brake Release Fan Cover

Frame	Catalog Number	List	Discount Symbol	Notes
56	KIT080CR014	$124	DS-3LS	
140	KIT090CR014	$124	DS-3LS	

Motor Modules, Totally Enclosed
3 Phase, 60 Hertz Frames 56 - 145T

APPLICATIONS:

For use on U.S. MOTORS® gear reducers with tapered input shafts.

FEATURES:

- Class F Insulation
- Design B
- Will Accept SHUR STOP® Brake Kits
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

Type UTP

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1/3	1800	208-230/460	56	E177	$269	DS-3MM	1.25	21	75.5	1.2-1.2/0.6	
1/2	1800	208-230/460	56	E180	$303	DS-3MM	1.25	21	74.0	1.8-1.8/0.9	
3/4	1800	208-230/460	56	E183	$328	DS-3MM	1.25	26	75.5	2.7-2.8/1.4	
1	1800	208-230/460	56	E186PE	$428	DS-3MM	1.25	11	85.5	3.1-3/1.5	
1 1/2	1800	208-230/460	145T	E188PE	$454	DS-3MM	1.25	22	86.5	4.5-4.3/2.1	
2	1800	208-230/460	145T	E190PE	$472	DS-3MM	1.25	63	86.5	5.9-5.7/2.8	
3	1800	208-230/460	182T	E192PE	$720	DS-3MM	1.25	81	89.5	8.4-7.8/3.9	
5	1800	208-230/460	184T	E194PE	$820	DS-3MM	1.25	101	90.2	13.6-12.2/6.1	
7 1/2	1800	208-230/460	213T	E497PE	$1,140	DS-3MM	1.25	105	91.7	20-18.2/9.1	

3 Phase, Inverter Duty
Frames 56 - 145T

APPLICATIONS:

For use on U.S. MOTORS® gear reducers with tapered input shafts.
Motors are designed to operate on AC adjustable frequency controls rated for constant torque, continuous duty.

FEATURES:

- INVERTER GRADE® Insulation System
- Refined Balance
- 230/460 Volt
- 1.00 Service Factor on Inverter Power
- Class F Thermostats (One Per Phase)

Type UTIP, Constant Torque, 10:1 Speed Range

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1/3	1800	230/460	56	G591	$487	DS-3MM	1.15	21	75.5	1.6/0.8	
1/2	1800	230/460	56	G592	$524	DS-3MM	1.25	22	78.5	2.3/1.1	
3/4	1800	230/460	56	G593	$550	DS-3MM	1.25	27	82.5	2.7/1.3	
1	1800	230/460	143T	G594	$625	DS-3MM	1.25	32	84.0	3.2/1.6	
1 1/2	1800	230/460	145T	G595	$634	DS-3MM	1.25	35	84.0	4.5/2.3	
2	1800	230/460	145T	G596	$650	DS-3MM	1.25	47	85.5	5.7/2.9	

General Purpose Single Phase Motors

Horsepower: 1/12 – 10 HP

RPM: 3600, 1800, 1200, 900 RPM
(Some Two Speed Ratings Available)

Voltage: Operable on 115, 208 or 230 Volts, 60 Hz

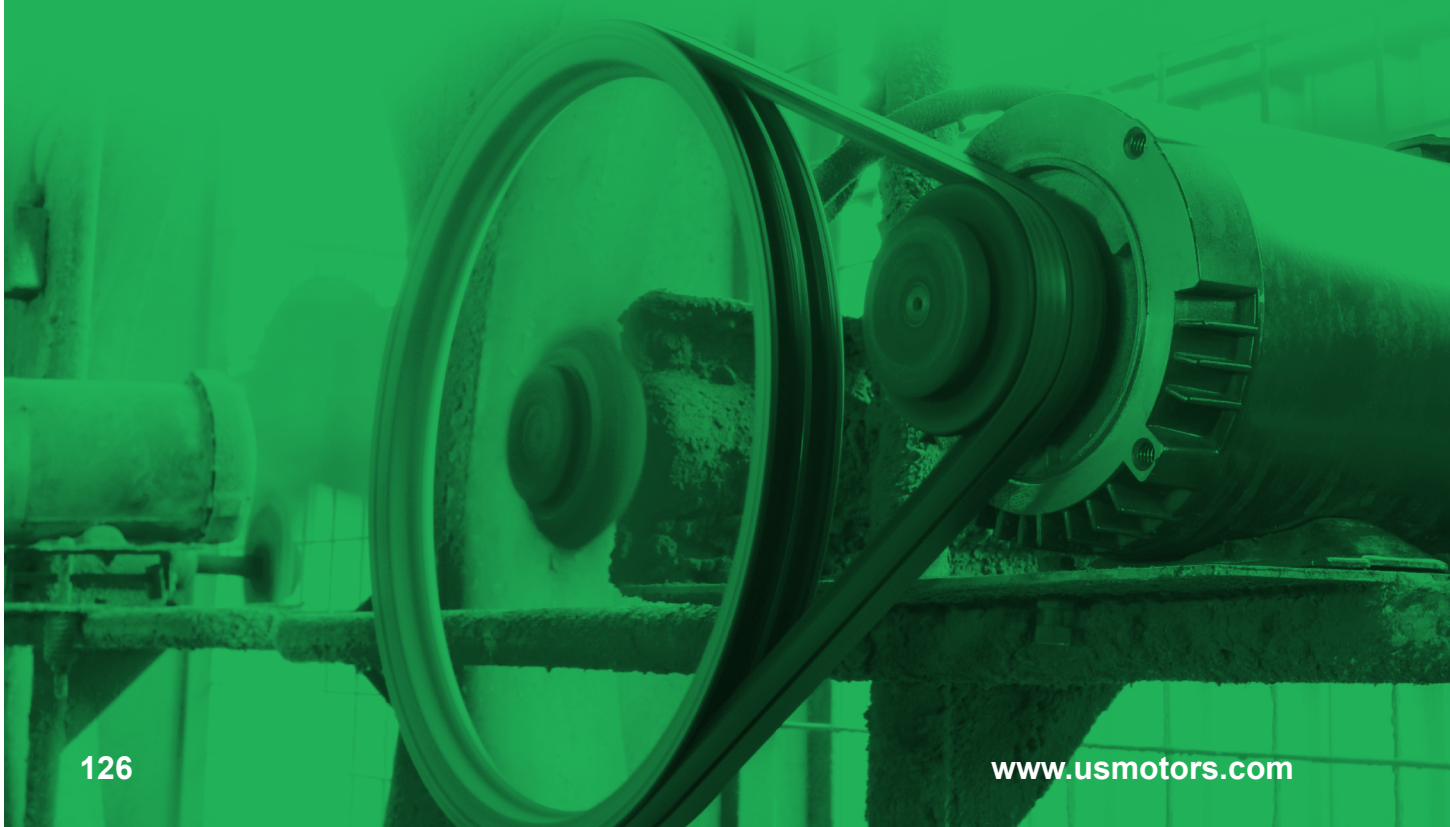
Construction: Rolled Steel Frame

Bearings: Ball or Sleeve Bearings

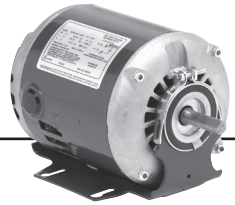
Ambient: 40°C Rated

Thermal Overload:
- Automatic Reset Thermal Overload Protector
- Manual Reset Thermal Overload Protector
- Non-Protected

Agency: UL®† Recognized and CSA®† Certified



General Purpose Single Phase
Open Drip Proof (ODP) Split Phase



APPLICATIONS:

For commercial and industrial ventilation systems.

FEATURES:

- 40°C Ambient
- 60 Hertz
- Reversible Rotation
- Continuous Duty
- Class A or B Insulation
- Ball Bearing
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

Single Speed, Rigid Base

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	Shaft Dim. (inches)	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/4	1800	115	48Z	D14B2N4Z	$119	DS-3FMP	1/2" x 2.25"	1.35	9.8	13	5.3	25
	1800	115	56Z	2910	$121	DS-3FMP	1/2" x 1.5"	1.00	9.4	23	5.4	
1/3	1800	115	48	D13B2N4A	$146	DS-3FMP	1/2" x 1.5"	1.00	8.6	16	6.8	25,61
	1800	115	48	D13BA2N4A	$195	DS-3FMP	1/2" x 1.5"	1.35	8.6	16	6.0	25,61
	1800	115	48Z	D13B2N4Z	$122	DS-3FMP	1/2" x 2.25"	1.35	9.8	14	7.0	25
	1800	115	56Z	2911	$231	DS-3FMP	1/2" x 1.5"	1.00	9.0	17	6.0	25,61
1/2	1800	115	56	1366	$260	DS-3FMP	5/8" x 1.875"	1.25	10.3	16	8.9	25,61
	1800	115	56	D12BM2N	$284	DS-3FMP	5/8" x 1.875"	1.25	9.9	16	8.9	23
	1800	115	48	D12B2N4	$234	DS-3FMP	1/2" x 1.5"	1.00	9.5	22	8.8	25

Two Speed, Resilient Base

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	Shaft Dim. (inches)	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/3 / 1/9	1800/1200	115	56Z	3053	$327	DS-3FMP	1/2" x 1.5"	1.00	10.0	19	7.1	25
1/2 & 1/6	1800/1200	115	56	3306	$420	DS-3FMP	5/8" x 1.875"	1.00	10.8	26	9.2/5.2	25
1/3 / 1/9	1800/1200	115	48	D13B10N49	$229	DS-3FMP	1/2" x 1.5"	1.00	10.4	17	6.4/4.0	20,25

Single Speed, Resilient Base

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	Shaft Dim. (inches)	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/6	1800	115	48Z	D16B2N4Z9	$169	DS-3FMP	1/2" x 1.875"	1.35	9.3	12	4.2	25
	1200	115	48Z	D16B3N4Z9	$274	DS-3FMP	1/2" x 1.875"	1.35	10.3	15	4.5	20,25
1/4	1800	115	48	D14B2N49	$143	DS-3FMP	1/2" x 1.5"	1.35	8.4	22	5.1	20,25
	1800	115	56Z	D14B2NZA9	$172	DS-3FMP	1/2" x 1.5"	1.00	9.4	15	5.4	20,25
	1200	115	56	D14B3N9	$326	DS-3FMP	5/8" x 1.875"	1.35	10.8	22	5.5	21,25
	1200	208-230	56	7998	$379	DS-3FMP	5/8" x 5.9"	1.35	14.0	25	2.9	24
1/3	1800	115	48	D13B2N4A9	$152	DS-3FMP	1/2" x 1.5"	1.00	9.4	15	6.8	25
	1800	115	48Z	D13B2N4Z9	$207	DS-3FMP	1/2" x 1.875"	1.35	9.8	22	7.0	25
	1800	115	56Z	D13B2NZA9	$172	DS-3FMP	1/2" x 1.875"	1.00	9.8	15	6.0	25
	1800	230	48	D13B2K4A9	$167	DS-3FMP	1/2" x 1.5"	1.00	9.4	15	3.0	25
	1200	115/230	56	D13B3P9	$379	DS-3FMP	5/8" x 1.875"	1.35	10.3	25	7.5/3.8	21,25
1/2	1800	115	56	6737	$315	DS-3FMP	5/8" x 1.875"	1.00	9.8	17	8.6	24
	1800	115	56	D12B2NA9	$241	DS-3FMP	5/8" x 1.875"	1.25	10.3	20	8.9	25
	1800	115	56Z	D12B2N49	$269	DS-3FMP	1/2" x 1.5"	1.00	9.9	18	8.8	25
	1800	115	56Z	D12B2NZA9	$222	DS-3FMP	1/2" x 1.875"	1.00	10.3	16	8.9	25
3/4	1800	115	56	D34B2N9	$295	DS-3FMP	5/8" x 1.875"	1.25	11.3	23	11.3	25

Note 20 Stud Extensions in 3 5/8" Square Pattern
Note 21 Stud Extensions in 4 3/16" Square Pattern
Note 23 Manual Reset Thermal Protector Overload
Note 24 Automatic Reset Thermal Protector Overload
Note 25 Non-protected
Note 61 Sleeve Bearings

General Purpose Single Phase
Open Drip Proof (ODP) Resilient Base, Capacitor Start



APPLICATIONS:

For air compressors, pumps, conveyors, blowers and general industrial equipment.

FEATURES:

- Class A or B Insulation
- Reversible Rotation
- 40°C Ambient
- 60 Hertz
- Continuous Duty
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

Single Speed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/6	900	115	48	3700	$555	DS-3FMP	1.35	8.9	23	4.5	25
1/4	1800	115/230	48	D14CPA2P49	$341	DS-3FMP	1.35	9.9	18	3.1/1.5	24
	1800	115/230	56	D14CP2P9	$285	DS-3FMP	1.35	10.3	14	3.1/1.5	25
	1800	115/230	56	D14CPA2P9	$333	DS-3FMP	1.35	10.3	14	3.1/1.5	24
	1200	115/230	56	D14CPA3P9	$472	DS-3FMP	1.35	11.8	19	3.70/1.86	24
	1200	115/230	56	D14CPM3P9	$457	DS-3FMP	1.35	10.8	22	3.70/1.86	23
1/3	3600	115/208-230	56	D13CA1J9	$281	DS-3FMP	1.35	10.4	19	6/2.9-3.0	24
	1800	115/230	48	D13CP2P49	$346	DS-3FMP	1.35	9.9	17	3.8/1.9	25
	1800	115/230	48	D13CPA2P49	$378	DS-3FMP	1.35	9.9	18	3.8/1.9	24
	1800	115/230	56	D13CPA2P9	$370	DS-3FMP	1.35	10.3	18	3.8/1.9	24
	1800	115/230 & 110/220	48	D13CP2Z49	$312	DS-3FMP	1.35	10.3	18	3.8/1.9	25
	1200	115/230	56H	D13CP3PH9	$507	DS-3FMP	1.35	11.3	26	4.4/2.3	25
	1200	115/230	56H	D13CPA3P9	$525	DS-3FMP	1.35	11.3	26	4.4/2.3	24
	1200	115/230	56H	D13CPM3P9	$515	DS-3FMP	1.35	11.3	26	4.4/2.3	23
	900	115/230	56	D13C4P9	$816	DS-3FMP	1.35	12.8	39	8.7/4.3	25
1/2	3600	115/230	48	D12CP1P49	$227	DS-3FMP	1.25	9.9	19	5.0/2.5	25
	1800	115/230	48	D12CP2P49	$283	DS-3FMP	1.25	9.9	22	5.0/2.6	25
	1800	115/230	48	D12CPA2P49	$330	DS-3FMP	1.25	9.9	14	5.0/2.6	24
	1800	115/230	56H	D12CP2PH9	$360	DS-3FMP	1.25	11.3	14	5.0/2.6	25
	1800	115/230	56H	D12CPA2PH9	$378	DS-3FMP	1.25	11.3	15	5.0/2.6	24
	1200	115/230	56H	D12CP3PH9	$590	DS-3FMP	1.25	12.3	36	4.8/2.4	25
	1200	115/230	56H	D12CPA3PH9	$685	DS-3FMP	1.25	12.3	36	4.8/2.4	24
3/4	3600	115/230	56H	D34CPA1PH9	$340	DS-3FMP	1.25	11.8	24	7.0/3.6	24
	1800	115/230	56H	D34CP2PH9	$408	DS-3FMP	1.25	12.3	29	7.0/3.5	25
	1800	115/230	56H	D34CPA2PH9	$434	DS-3FMP	1.25	12.3	29	7.0/3.5	24
	1800	115/230	56	1660	$314	DS-3FMP	1.00	10.8	28	11.6/5.8	24
1	3600	115/230	56H	D1CP1PH9	$475	DS-3FMP	1.25	13.3	29	9.3/4.3	25
	3600	115/230	56H	D1CPA1PH9	$480	DS-3FMP	1.25	13.0	28	9.3/4.3	24
	1800	115/208-230	56H	D1CPA2JH9	$644	DS-3FMP	1.15	12.3	31	8.8/4.4-4.4	24
	1800	115/230	56H	D1CP2PH9	$486	DS-3FMP	1.15	12.0	32	8.8/4.4	25
	1800	115/230	56H	D1CPA2PH9	$644	DS-3FMP	1.15	12.3	31	8.8/4.4	24
	1800	115/230	56	D1CPA2P9	$644	DS-3FMP	1.15	12.3	31	8.8/4.4	24
	1200	115/230	56H	D1CPA3PH9	$878	DS-3FMP	1.15	13.1	45	8.9/4.6	24
1 1/2	3600	115/230	56H	D32CPA1PH9	$637	DS-3FMP	1.15	13.3	31	13.3/6.7	24
	1800	115/208-230	145T	D32C2J149	$566	DS-3SP	1.15	13.7	32	19.2/10.0-9.6	25
	1800	115/230	56H	D32CP2PH9	$622	DS-3F	1.15	13.0	24	13.4/6.7	25
	1800	115/230	56H	D32CPA2PH9	$787	DS-3FMP	1.15	12.3	41	13.4/6.7	24
2	3600	115/230	56H	D2CPA1PH9	$700	DS-3FMP	1.15	13.8	41	17.3/8.7	24
	1800	115/230	56H	D2CP2PH9	$765	DS-3FMP	1.15	13.5	46	17.0/8.5	25
	1800	115/230	56H	D2CPA2PH9	$995	DS-3FMP	1.15	13.5	46	17.0/8.5	24

Two Speed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
3/4 / 1/4	1800	115 V	56	6311	$448	DS-3FMP	1.25	10.8	26	8.9/6.1	25
1 / 1/3	1800	208-230 V	56	6316	$501	DS-3FMP	1.15	11.8	32	7.4-7.4/4.0-4.3	25

Note 23 Manual Reset Thermal Protector Overload
Note 24 Automatic Reset Thermal Protector Overload
Note 25 Non-protected

General Purpose Single Phase
Open Drip Proof (ODP) Rigid Base, Capacitor Start



APPLICATIONS:

For air compressors, pumps, conveyors, blowers and general industrial equipment.

FEATURES:

- Double Shielded Ball Bearings
- Rigid Base Standard
- Class B Insulation
- Continuous Duty
- 40°C Ambient
- F1 Assembly
- Reversible Rotation
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/4	1800	115/230	48	D14CP2P4	$335	DS-3FMP	1.35	9.1	14	3.1/1.5	25
	1800	115/230	48	D14CPA2P4	$403	DS-3FMP	1.35	9.5	15	3.1/1.5	24
1/3	3600	115/230	48	D13CPA1P4	$333	DS-3FMP	1.35	9.1	21	3.7/1.8	24
	1800	115/208-230	56	D13CPM2P	$426	DS-3FMP	1.35	10.3	16	3.9/2.0-1.9	23
	1800	115/230	48	D13CP2P4	$395	DS-3FMP	1.35	9.1	17	3.8/1.9	25
	1800	115/230 & 110/220	48	D13CPA2Z4	$523	DS-3FMP	1.35	9.1	17	3.8/1.9	24
	1800	115/230 & 110/220	56	D13CP2P	$402	DS-3FMP	1.35	9.9	16	3.9/1.9 & 4.8/2.5	25
1/2	1800	115/230	48	D12CP2P4	$470	DS-3FMP	1.25	9.0	26	5.0/2.6	25
	1800	115/230	48	D12CPA2P4	$583	DS-3FMP	1.25	9.1	22	5.0/2.6	24
	1800	115/230	56	D12CP2P	$478	DS-3FMP	1.25	9.4	26	5.0/2.6	25
	1800	115/230	56	D12CPA2P	$486	DS-3FMP	1.25	10.9	26	5.0/2.6	24
	1800	115/230	56	D12CPM2P	$507	DS-3FMP	1.25	9.4	26	5.0/2.6	23
	1200	115/230	56H	D12CP3PH	$606	DS-3F	1.25	11.9	32	4.8/2.4	25
3/4	3600	115/230	56H	D34CP1PH	$398	DS-3FMP	1.25	11.4	32	7.0/3.6	25
	3600	115/230	56H	D34CPM1PH	$495	DS-3FMP	1.25	11.4	24	7.0/3.6	23
	1800	115/230	56H	D34CP2PH	$588	DS-3FMP	1.25	11.9	29	7.0/3.5	25
	1800	115/230	56H	D34CPA2PH	$602	DS-3FMP	1.25	11.9	29	7.0/3.5	24
	1800	115/230	56H	D34CPM2PH	$637	DS-3FMP	1.25	11.9	29	7.0/3.5	23
	1200	115/230	56H	D34CP3PH	$746	DS-3FMP	1.15	13.4	45	7.4/3.7	25
1	3600	115/230	56H	D1CP1PH	$533	DS-3FMP	1.25	12.9	29	9.3/4.3	25
	3600	115/230	56	D1CPM1PH	$560	DS-3FMP	1.25	11.4	29	9.3/4.3	23
	1800	115/208-230	143T	D1C2J14	$476	DS-3SP	1.15	12.3	32	14.8/7.5-7.3	25
	1800	115/208-230	143T	D1CA2J14	$515	DS-3SP	1.15	12.8	32	14.8/7.5-7.3	24
	1800	115/208-230	143T	D1CM2J14	$538	DS-3SP	1.15	12.3	32	14.8/7.5-7.3	23
	1800	115/230	182	D1C2P18Z	$843	DS-3SP	1.25	12.8	69	14.4/7.2	25
	1800	115/230	56H	D1CP2PH	$661	DS-3FMP	1.15	11.9	31	8.8/4.4	25
	1800	115/230	56H	D1CPA2PH	$671	DS-3FMP	1.15	11.9	31	8.8/4.4	24
	1800	115/230	56H	D1CPM2PH	$672	DS-3FMP	1.15	11.9	31	8.8/4.4	23
	1200	115/230	56H	D1CP3PH	$816	DS-3FMP	1.15	12.8	27	8.9/4.6	25
1 1/2	1800	115/230	56H	D32CPM2PH	$816	DS-3FMP	1.15	12.9	41	13.3/6.7	23
	3600	115/208-230	143T	D32C1J14	$474	DS-3FMP	1.15	12.3	32	18.6/9.8-9.3	25
	3600	115/208-230	56H	D32C1JH	$474	DS-3FMP	1.15	11.9	32	18.6/9.8-9.3	25,LA
	3600	115/230	56H	D32CPM1PH	$678	DS-3FMP	1.15	12.9	31	13.3/6.7	23
	1800	115/208-230	145T	D32C2J14	$632	DS-3SP	1.15	13.3	39	19.2/10.0-9.6	25
	1800	115/208-230	145T	D32CM2J14	$630	DS-3SP	1.15	13.3	39	19.2/10.0-9.6	23
	1800	115/230	184	D32C2P18Z	$955	DS-3SP	1.15	13.3	71	22.0/11.0	25
	1800	115/230	56H	D32CP2PH	$861	DS-3FMP	1.15	12.9	38	13.4/6.7	25
	1800	115/230	56H	D32CPA2PH	$876	DS-3FMP	1.15	12.9	38	13.4/6.7	24

Note 23 Manual Reset Thermal Protector Overload
Note 24 Automatic Reset Thermal Protector Overload
Note 25 Non-protected
Note LA Limited Availability

General Purpose Single Phase
Open Drip Proof (ODP) Rigid Base, Capacitor Start

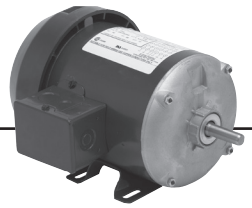
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HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
2	3600	115/208-230	145T	D2C1J14	$714	DS-3SP	1.15	12.8	36	22.4/12.4-11.2	25
	3600	115/230	56H	D2CP1PH	$775	DS-3FMP	1.15	13.4	39	17.3/8.7	25
	1800	115/230	56H	D2CPM2PH	$1,018	DS-3FMP	1.15	13.1	46	17.0/8.5	23
	1800	115/208-230	145T	D2C2J14	$762	DS-3SP	1.15	13.8	42	20.0/11.3-10.0	25
	1800	115/208-230	145T	D2CA2J14	$792	DS-3SP	1.15	14.3	42	20.0/11.3-10.0	24
	1800	115/208-230	145T	D2CM2J14	$815	DS-3SP	1.15	14.0	42	20.0/11.3-10.0	23
	1800	115/230	182T	D2C2P18	$728	DS-3SP	1.15	14.8	70	23.2/11.6	25
	1800	115/230	213	D2C2P21Z	$1,212	DS-3SP	1.15	15.0	75	24.6/12.3	25
	1800	115/230	56H	D2CPA2PH	$987	DS-3FMP	1.15	13.1	46	17.0/8.5	24
3	3600	115/230	182	D3C1P18	$982	DS-3SP	1.15	17.3	81	32.0/16.0	25
	3600	208-230	56	D3CPM1T	$888	DS-3FMP	1.15	13.2	42	13.2	23
	1800	115/230	184T	D3C2P18	$918	DS-3SP	1.15	15.8	76	38.0/19.0	25
5	3600	230	184T	D5C1K18	$1,011	DS-3SP	1.15	18.0	82	19.6	25
	1800	230	184T	D5C2K18	$1,389	DS-3SP	1.15	16.3	86	22.0	25
	1800	230	213T	D5C2K21	$1,394	DS-3SP	1.15	19.1	86	22.0	25
	1800	230	215	D5C2K21Z	$2,028	DS-3SP	1.15	19.1	86	22.0	25
7 1/2	3600	208/230	184T	D7C1K18	$1,138	DS-3SP	1.15	17.9	80	32.8/31.4	25
	3600	230	213T	D7C1K21	$1,265	DS-3SP	1.15	19.1	89	30.3	25
	1800	230	215T	D7C2K21	$1,596	DS-3SP	1.15	19.9	105	35.5	25
10	3600	230	215T	D10C1K21	$2,287	DS-3SP	1.15	20.6	92	40.0	25
	1800	230	215T	D10C2K21	$1,794	DS-3SP	1.15	19.9	153	42.2	25

Note 23 Manual Reset Thermal Protector Overload
Note 24 Automatic Reset Thermal Protector Overload
Note 25 Non-protected

General Purpose Single Phase
Totally Enclosed Fan Cooled (TEFC) Split Phase



APPLICATIONS:

For commercial fans and blowers, tools, conveyors, pumps and general industrial equipment requiring moderate starting torque.

FEATURES:

- 40°C Ambient
- 60 Hertz
- Continuous Duty
- Class A or B Insulation
- Ball Bearing

Single Speed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/6	1800	115	48	T16B2N49	$226	DS-3FMP	1.00	10.6	22	3.4	25, RB
1/4	1800	115	48	T14B2N49	$222	DS-3FMP	1.00	10.6	22	4.4	20,25, RB
	1200	115/230	56	T14B3P9	$360	DS-3FMP	1.00	12.0	22	5.8/2.9	25, RB
1/3	3600	115	48	T13B1N4	$236	DS-3FMP	1.00	10.6	19	5.4	25,58,92

Two Speed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/2 / 1/4	1800 / 1200	115	56	T12B10N	$493	DS-3FMP	1.00	11.8	27	7.2/5.0	25,58

Note 20 Stud Extensions in 3 5/8" Square Pattern
Note 25 Non-protected
Note 58 Footed
Note 92 Rigid base
Note RB Resilient Base Mount

General Purpose Single Phase
Open Drip Proof (ODP) C-Face, Capacitor Start



APPLICATIONS:

For air compressors, commercial duty pumps, conveyors, blowers and general industrial equipment.

FEATURES:

- Double Shielded Ball Bearings - Locked Drive End Bearings
- 50/60 Hz Motors Have 1.0 S.F. on 50 Hz
- Class B Insulation
- Continuous Duty
- 40°C Ambient
- F1 Assembly
- Reversible Rotation
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/2	1800	115/230	56C	D12CP2PC	$567	DS-3FMP	1.25	9.9	23	5.0/2.6	25
3/4	1800	115/230	56HC	D34CP2PHC	$692	DS-3FMP	1.25	11.9	29	7.0/3.5	25
1	3600	115/230	56HC	D1CP1PHC	$516	DS-3FMP	1.25	12.9	29	9.3/4.3	25
	1800	115/208-230	143TC	D1C2J14C	$636	DS-3F	1.15	11.9	32	14.8/7.5-7.3	25
	1800	115/230	56HC	D1CP2PHC	$795	DS-3FMP	1.15	12.4	31	8.8/4.4	25
1 1/2	3600	115/208-230	56HC	D32C1JHC	$508	DS-3FMP	1.15	11.9	32	18.6/9.8-9.3	25,LA
	1800	115/230	56HC	D32CP2PHC	$836	DS-3FMP	1.15	13.4	37	13.4/6.7	25
2	1800	115/230	56HC	D2CP2PHC	$977	DS-3FMP	1.15	13.4	46	17.0/8.5	25

Footless

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/4	1200	115	56C	D14B3NCR	$326	DS-3FMP	1.35	10.9	20	5.5	25
1/3	1800	115/230	56C	D13CP2PCR	$423	DS-3FMP	1.35	10.8	18	3.8/1.9	25
1/2	1800	115/230	56C	D12CP2PCR	$497	DS-3FMP	1.25	10.9	22	5.0/2.6	25
	1800	115/230	56C	D12CPA2PCR	$570	DS-3F	1.25	9.9	22	5.0/2.6	24
3/4	3600	115/208-230	56C	D34CA1JCR	$388	DS-3FMP	1.25	11.4	32	10.4/5.3-5.2	24,LA
	3600	115/230	56C	D34CPM1PCR	$516	DS-3FMP	1.25	11.4	24	7.0/3.6	23
	1800	115/230	56C	D34CP2PCR	$610	DS-3FMP	1.25	11.9	29	7.0/3.5	25
	1800	115/230	56C	D34CPA2PCR	$690	DS-3FMP	1.25	13.0	29	7.0/3.5	24
1	3600	115/230	56C	D1CPA1PCR	$560	DS-3FMP	1.25	12.9	29	9.3/4.3	24
	1800	115/230	56C	D1CP2PCR	$662	DS-3FMP	1.15	13.0	31	8.8/4.4	25
1 1/2	1800	115/230	56H	D32CP2PCR	$693	DS-3FMP	1.15	12.9	37	13.4/6.7	25
2	1800	115/230	56C	D2CP2PCR	$990	DS-3FMP	1.15	13.4	42	17.0/8.5	25

Note 23 Manual Reset Thermal Protector Overload
Note 24 Automatic Reset Thermal Protector Overload
Note 25 Non-protected
Note LA Limited Availability

General Purpose Single Phase, Capacitor Start Totally Enclosed Fan Cooled (TEFC) Rigid Base



APPLICATIONS:

For use on air compressors, pumps, conveyors, blowers and general industrial equipment.

FEATURES:

- Double Shielded Ball Bearings
- Class B Insulation
- Continuous Duty
- 40°C Ambient
- Capacitor Start, Induction Run
- F1 Assembly
- Reversible Rotation
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/4	1800	115/208-230	48	T14CM2J4	$397	DS-3FMP	1.15	10.3	22	6.6/2.9-3.3	23
	1800	115/230	48YZ	T14C2P4ZS	$355	DS-3FMP	1.15	11.4	18	5.3/2.7	25
	1200	115/208-230	56	T14C3J	$541	DS-3FMP	1.15	11.4	23	6.4/3.0-3.2	25
1/3	3600	115/208-230	48	T13C1J4	$264	DS-3FMP	1.15	10.8	19	5.5/2.7-2.8	25
	1800	115/208-230	56	T13C2J	$362	DS-3FMP	1.15	10.6	22	6.6/2.9-3.3	25
	1800	115/208-230	56	T13CM2J	$386	DS-3FMP	1.15	10.7	22	6.6/3.0-3.3	23
	1200	115/208-230	56	T13C3J	$523	DS-3FMP	1.15	11.4	32	6.8/3.4-3.4	25
1/2	3600	115/208-230	56	T12CM1J	$324	DS-3FMP	1.15	11.6	19	8.0/3.8-4.0	23
	1800	100-120 & 200-240	56	6174	$468	DS-3FMP	1.25	12.0	27	6.3-5.6/3.1-2.8	25
	1800	115/208-230	48	T12C2J4	$415	DS-3FMP	1.15	11.3	22	9/4.3-4.5	25
	1800	115/208-230	56	T12C2J	$422	DS-3FMP	1.15	11.4	32	9.0/4.3-4.5	25
	1800	115/208-230	56	T12CA2J	$465	DS-3FMP	1.15	11.4	32	9.0/4.3-4.5	24
	1800	115/208-230	56	T12CM2J	$474	DS-3FMP	1.15	11.4	28	9.0/4.3-4.5	23
	1200	115/208-230	56	T12C3J	$742	DS-3FMP	1.15	12.4	37	10.4/5.1-5.2	25
3/4	3600	115/208-230	56	T34C1J	$345	DS-3FMP	1.15	11.9	25	10.4/5.3-5.2	25
	3600	115/208-230	56	T34CA1J	$425	DS-3FMP	1.15	11.9	32	10.4/5.3-5.2	24
	3600	115/208-230	56	T34CM1J	$408	DS-3FMP	1.15	11.9	25	10.4/5.3-5.2	23
	1800	100-120 & 200-240	56	T34C2Z	$556	DS-3FMP	1.25	12.4	32	9.2-8.4/4.6-4.2	25
	1800	115/208-230	56	T34C2J	$512	DS-3FMP	1.15	11.9	33	11.4/5.7-5.7	25
	1800	115/208-230	56	T34CA2J	$521	DS-3FMP	1.15	11.9	32	11.4/5.7-5.7	24
	1800	115/208-230	56	T34CM2J	$535	DS-3FMP	1.15	11.9	32	11.4/5.7-5.7	23
	1200	115/208-230	56H	T34C3JH	$932	DS-3FMP	1.15	13.4	39	10.6/5.4-5.3	25
1	3600	115/208-230	56	T1C1J	$455	DS-3FMP	1.15	12.4	32	13.6/6.9-6.8	25
	3600	115/208-230	56	T1CA1J	$498	DS-3FMP	1.15	12.4	32	13.6/6.9-6.8	24
	3600	115/208-230	56	T1CM1J	$473	DS-3FMP	1.15	12.4	32	13.6/6.9-6.8	23
	1800	100-120 & 200-240	56	T1C2Z	$641	DS-3FMP	1.15	13.4	32	11.0-9.2/5.5-4.7	25
	1800	115/208-230	143T	T1CA2J14	$614	DS-3SP	1.15	13.0	32	14.0/6.9-7.0	24
	1800	115/208-230	143T	T1CM2J14	$630	DS-3SP	1.15	12.8	32	14.0/6.9-7.0	23
	1800	115/208-230	56H	T1C2JH	$554	DS-3FMP	1.15	12.4	32	14.0/6.9-7.0	25
	1800	115/208-230	56H	T1CA2JH	$591	DS-3FMP	1.15	12.4	32	14.0/6.9-7.0	24
	1800	115/208-230	56H	T1CM2JH	$577	DS-3FMP	1.15	12.4	40	14.0/6.9-7.0	23
	1800	115/208-230	143T	T1C2J14	$576	DS-3SP	1.15	12.8	32	14.0/6.9-7.0	25
	1200	115/208-230	56H	T1C3JH	$1,081	DS-3FMP	1.15	13.9	44	12.6/6.6-6.3	25
1 1/2	3600	115/208-230	143T	T32C1J14	$568	DS-3FMP	1.15	13.3	34	14.6/8.1-7.4	25
	3600	115/208-230	56H	T32CM1JH	$637	DS-3FMP	1.15	12.9	34	14.6/8.1-7.4	23
	3600	115/208-230	56H	T32C1JH	$568	DS-3FMP	1.15	12.9	32	14.6/8.1-7.4	25
	1800	115/208-230	145T	T32C2J14	$580	DS-3SP	1.15	14.3	41	14.4/8.0-7.2	25
	1800	115/208-230	145T	T32CA2J14	$619	DS-3SP	1.15	14.3	40	14.4/8.0-7.2	24
	1800	115/208-230	56H	T32C2JH	$633	DS-3FMP	1.15	13.9	30	14.4/8.0-7.2	25
	1800	115/208-230	56H	T32CA2JH	$646	DS-3FMP	1.15	13.9	41	14.4/8.0-7.2	24
	1800	115/208-230	56H	T32CM2JH	$650	DS-3FMP	1.15	13.9	28	14.4/8.0-7.2	23
	1800	115/230	184	T32C2P18Z	$1,083	DS-3SP	1.00	15.1	79	18.4/9.2	25

Note 23 Manual Reset Thermal Protector Overload
Note 24 Automatic Reset Thermal Protector Overload
Note 25 Non-protected

General Purpose Single Phase, Capacitor Start Totally Enclosed Fan Cooled (TEFC) Rigid Base

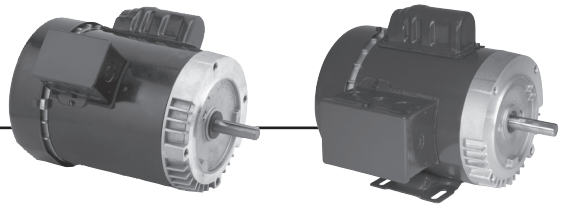


(continued)

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
2	3600	115/208-230	145T	T2C1J14	$744	DS-3FMP	1.15	13.8	41	19.5/10.8-9.7	25
	3600	115/208-230	145T	T2CM1J14	$813	DS-3FMP	1.15	13.8	40	19.5/10.8-9.7	23
	3600	115/208-230	56H	T2C1JH	$744	DS-3FMP	1.15	13.4	40	19.5/10.8-9.7	25
	3600	115/208-230	56H	T2CM1JH	$813	DS-3FMP	1.15	13.4	39	19.5/10.8-9.7	23
	1800	115/208-230	145T	T2C2J14	$838	DS-3SP	1.15	14.3	54	18.9/10.3-9.4	25
	1800	115/208-230	145T	T2CA2J14	$877	DS-3SP	1.00	14.8	54	18.9/10.3-9.4	24
	1800	115/208-230	145T	T2CM2J14	$901	DS-3SP	1.00	14.3	54	18.9/10.3-9.4	23
	1800	115/208-230	56H	T2C2JH	$838	DS-3FMP	1.15	13.9	54	18.9/10.3-9.4	25
	1800	115/208-230	56H	T2CA2JH	$877	DS-3FMP	1.00	14.4	54	18.9/10.3-9.4	24
	1800	115/208-230	56H	T2CM2JH	$901	DS-3FMP	1.00	13.9	54	18.9/10.3-9.4	23
	1800	115/230	182T	T2C2P18	$818	DS-3SP	1.00	15.2	50	23.6/11.8	18,25
	1800	115/230	213	T2C2P21Z	$1,336	DS-3SP	1.00	17.6	72	24.0/12.0	18,25
3	3600	115/230	182T	T3C1P18	$1,008	DS-3SP	1.00	16.6	83	32.0/16.0	18,25
	1800	115/230	184T	T3C2P18	$954	DS-3SP	1.00	17.7	121	30.0/15.0	18,25
5	3600	230	184T	T5C1K18	$1,363	DS-3SP	1.00	17.4	91	19.6	18,25
	1800	230	213T	T5C2K21	$1,139	DS-3SP	1.00	19.6	121	23.0	18,25
	1800	230	215	T5C2K21Z	$2,301	DS-3SP	1.00	19.6	90	20.0	18,25
7 1/2	3600	230	213T	T7C1K21	$1,789	DS-3SP	1.00	20.0	92	30.3	18,25
	1800	230	215T	T7C2K21	$1,815	DS-3SP	1.00	22.0	90	30.0	18,25

Note 18 Incorporates Run Capacitor
Note 23 Manual Reset Thermal Protector Overload
Note 24 Automatic Reset Thermal Protector Overload
Note 25 Non-protected

General Purpose Single Phase, Capacitor Start Totally Enclosed Fan Cooled (TEFC) C-Face



APPLICATIONS:

For use on air compressors, pumps, conveyors, blowers and general industrial equipment.

FEATURES:

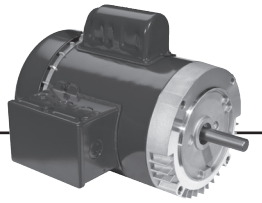
- Double Shielded Ball Bearings
- Class B Insulation
- Continuous Duty
- 40°C Ambient
- Capacitor Start, Induction Run
- F1 Assembly
- Reversible Rotation
- 50/60 Hz Motors Have 1.0 S.F. on 50 Hz
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/4	1800	115/208-230	56C	T14C2JC	$390	DS-3F	1.15	11.1	22	6.5/2.8-3.2	25
1/3	1800	115/208-230	56C	T13C2JC	$380	DS-3F	1.15	11.0	19	6.6/3-3.3	25
1/2	1800	100-120 & 200-240	56C	6212	$565	DS-3FMP	1.25	12.0	25	6.3-5.6/3.1-2.8	18,24,98
	1800	115/208-230	56C	T12C2JC	$482	DS-3FMP	1.15	11.4	32	9.0/4.3-4.5	25
3/4	3600	115/208-230	56C	T34C1JC	$417	DS-3FMP	1.15	11.9	32	10.4/.5.3-5.2	25
	1800	100-120 & 200-240	56C	6214	$691	DS-3FMP	1.25	12.0	32	9.2-8.4/4.6-4.2	24
	1800	115/208-230	56C	T34C2JC	$585	DS-3FMP	1.15	11.9	32	11.4/5.7-5.7	25
1	3600	115/208-230	56C	T1C1JC	$489	DS-3FMP	1.15	12.4	26	13.6/6.9-6.8	25
	1800	100-120 & 200-240	56C	T1CA2ZC	$730	DS-3FMP	1.15	13.4	30	11.0-9.2/5.5-4.7	
	1800	100-120 & 200-240	56C	T1CM2ZC	$760	DS-3FMP	1.15	13.4	38	11.0-9.2/5.5-4.7	
	1800	115/208-230	143TC	T1C2J14C	$621	DS-3F	1.15	12.4	32	14.0/6.9-7.0	25
	1800	115/208-230	56HC	T1C2JHC	$621	DS-3FMP	1.15	12.4	32	14.0/6.9-7.0	25
1 1/2	3600	115/208-230	56HC	T32C1JHC	$603	DS-3FMP	1.15	12.9	42	14.6/8.1-7.4	25
	1800	115/208-230	145TC	T32C2J14C	$731	DS-3F	1.15	13.9	45	14.4/8.0-7.2	25
	1800	115/208-230	56HC	T32C2JHC	$736	DS-3FMP	1.15	13.9	41	14.4/8.0-7.2	25
2	3600	115/208-230	145TC	T2C1J14C	$778	DS-3FMP	1.15	13.4	43	19.5/10.8-9.7	25
	1800	115/208-230	145TC	T2C2J14C	$846	DS-3FMP	1.15	13.9	46	18.9/10.3-9.4	18,25
	1800	115/208-230	56HC	T2C2JHC	$846	DS-3FMP	1.15	13.9	43	18.9/10.3-9.4	18,25
5	3600	230	184TC	T5C1K18C	$1,397	DS-3SP	1.00	17.3	91	19.6	18,25

Note 18 Incorporates Run Capacitor
Note 24 Automatic Reset Thermal Protector Overload
Note 25 Non-protected
Note 98 50/60 Hertz

General Purpose Single Phase, Capacitor Start Totally Enclosed Fan Cooled (TEFC) C-Face



(continued)

Footless

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/4	1800	115/208-230	56C	T14C2JCR	$330	DS-3F	1.15	11.0	22	6.5/2.8-3.2	25
	1200	115/208-230	56C	T14C3JCR	$314	DS-3F	1.15	11.4	32	6.4/3.0-3.2	25
1/3	1800	115/208-230	56C	T13C2JCR	$380	DS-3F	1.15	11.0	22	6.6/3.0-3.3	25
	1800	115/208-230	56C	T13CA2JCR	$380	DS-3FMP	1.15	11.0	22	6.6/3.0-3.3	24
	1800	115/230	42CZ	T13C2P42ZCR	$394	DS-3FMP	1.00	11.6	21	6.2/3.1	25
1/2	3600	115/208-230	56C	T12CA1JCR	$358	DS-3FMP	1.15	12.0	18	8.0/3.8-4.0	24
	1800	100-120 & 200-240	56C	T12C2ZCR	$592	DS-3FMP	1.25	12.0	25	6.3-5.6/3.1-2.8	18,25,98
	1800	115/208-230	56C	T12C2JCR	$439	DS-3FMP	1.15	12.4	32	9.0/4.3-4.5	25
	1800	115/208-230	56C	T12CA2JCR	$496	DS-3FMP	1.15	11.4	32	9.0/4.3-4.5	24
	1800	115/208-230	56C	T12CM2JCR	$462	DS-3FMP	1.15	11.4	32	9.0/4.3-4.5	23
	1200	115/208-230	56C	T12C3JCR	$828	DS-3FMP	1.15	12.4	32	10.4/5.1-5.2	25
3/4	3600	115/208-230	56C	T34CA1JCR	$451	DS-3FMP	1.15	11.9	32	10.4/5.3-5.2	24
	1800	100-120 & 200-240	56C	T34C2ZCR	$699	DS-3FMP	1.25	12.4	23	9.2-8.4/4.6-4.2	18,25,98
	1800	115/208-230	56C	T34C2JCR	$527	DS-3FMP	1.15	11.9	32	11.4/5.7-5.7	25
	1800	115/208-230	56C	T34CA2JCR	$582	DS-3FMP	1.15	11.9	32	11.4/5.7-5.7	24
	1800	115/208-230	56C	T34CM2JCR	$551	DS-3FMP	1.15	11.9	32	11.4/5.7-5.7	23
	1200	115/208-230	56C	T34C3JCR	$932	DS-3FMP	1.15	13.4	28	10.6/5.4-5.3	18,25
1	3600	115/208-230	56C	T1CA1JCR	$524	DS-3FMP	1.15	12.4	32	13.6/6.9-6.8	24
	1800	115/208-230	143TC	T1C2J14CR	$638	DS-3SP	1.15	12.4	32	14.0/6.9-7.0	25
	1800	115/208-230	143TC	T1CA2J14CR	$677	DS-3SP	1.15	12.4	32	14.0/6.9-7.0	24
	1800	115/208-230	143TC	T1CM2J14CR	$700	DS-3SP	1.15	12.4	32	14.0/6.9-7.0	23
	1800	115/208-230	56C	T1C2JCR	$571	DS-3FMP	1.15	12.4	32	14.0/6.9-7.0	25
	1800	115/208-230	56C	T1CA2JCR	$610	DS-3FMP	1.15	12.4	32	14.0/6.9-7.0	24
	1200	115/208-230	56C	T1C3JCR	$1,011	DS-3FMP	1.15	13.9	44	12.6/6.6-6.3	25
1 1/2	3600	115/208-230	143TC	T32C1J14CR	$637	DS-3SP	1.15	12.9	32	14.6/8.1-7.4	25
	3600	115/208-230	56C	T32CA1JCR	$637	DS-3FMP	1.15	12.9	32	14.6/8.1-7.4	24
	1800	115/208-230	145TC	T32C2J14CR	$723	DS-3SP	1.15	13.9	47	14.4/8.0-7.2	25
	1800	115/208-230	56C	T32C2JCR	$650	DS-3FMP	1.15	13.9	31	14.4/8.0-7.2	25
	1800	115/208-230	56C	T32CA2JCR	$689	DS-3FMP	1.15	13.9	31	14.4/8.0-7.2	24
	1800	115/208-230	56C	T32CM2JCR	$712	DS-3FMP	1.15	13.9	31	14.4/8.0-7.2	23
2	3600	115/208-230	145C	T2C1J14CR	$813	DS-3SP	1.15	12.9	34	19.5/10.8-9.7	25
	1800	115/208-230	145TC	T2C2J14CR	$969	DS-3SP	1.15	13.9	46	18.9/10.3-9.4	25
	1800	115/208-230	145TC	T2CA2J14CR	$1,008	DS-3SP	1.00	14.4	40	18.9/10.3-9.4	24
	1800	115/208-230	56C	T2C2JCR	$739	DS-3FMP	1.15	13.9	31	18.9/10.3-9.4	25
	1800	115/208-230	56C	T2CA2JCR	$778	DS-3FMP	1.00	14.4	31	18.9/10.3-9.4	24
	1800	115/208-230	56C	T2CM2JCR	$801	DS-3FMP	1.00	13.9	31	18.9/10.3-9.4	23

Note 18 Incorporates Run Capacitor
Note 23 Manual Reset Thermal Protector Overload
Note 24 Automatic Reset Thermal Protector Overload
Note 25 Non-protected
Note 98 50/60 Hertz

General Purpose Single Phase, Div.1 Hazardous Location Class I (Group C&D), Class II (Group E, F, & G)



APPLICATIONS:

For use on air compressors, pumps, conveyors, blowers and general industrial equipment located in hazardous areas.

FEATURES:

- UL®† Listed & CSA®† Certified
- Temperature Code T3C
- Class B Insulation
- Continuous Duty
- Totally Enclosed Fan Cooled Except Where Noted
- 40°C Ambient Rated
- F1 Assembly
- Automatic Reset Thermal Protector Overload
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

C-Face Footless

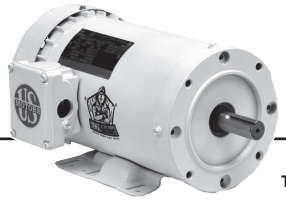
HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/4	1800	115/208-230&110/220	56C	XS14CA2JCR	$482	DS-3FMP	1.00	11.9	32	5.1/2.5-2.5 & 5.6/2.8	28
1/3	3600	115/208-230	56C	XS13CA1JCR	$614	DS-3FMP	1.00	13.3	29	8.0 / 3.6 - 4.0	
	1800	115/208-230	56C	XS13CA2JCR	$537	DS-3FMP	1.00	12.8	32	6.8/3.3-3.4	
1/2	3600	115/208-230	56C	XS12CA1JCR	$681	DS-3FMP	1.00	13.3	29	8.8/4.1-4.4	
	1800	115/208-230	56C	XS12CA2JCR	$563	DS-3FMP	1.00	13.8	32	9.8/4.9-4.9	
3/4	3600	115/208-230	56C	XS34CA1JCR	$728	DS-3FMP	1.00	13.3	32	10.4 / 5.3-5.2	
	1800	115/208-230	56C	XS34CA2JCR	$630	DS-3FMP	1.00	14.3	32	12.6/6.3-6.3	
1	3600	115/208-230	56C	XS1CA1JCR	$784	DS-3FMP	1.00	14.3	42	12.0/6.3-6.0	
	1800	115/208-230	56C	XS1CA2JCR	$675	DS-3FMP	1.00	14.8	44	14.0/6.9-7.0	

Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/4	1800	115/208-230&110/220	56	XS14CA2J	$482	DS-3FMP	1.00	12.5	32	5.1/2.5-2.5&5.6/2.8	28
	1200	115/230	56	XS14CA3P	$706	DS-3FMP	1.00	13.0	32	6.8/3.4	
1/3	3600	115/208-230	56	XS13CA1J	$560	DS-3FMP	1.00	13.2	29	8.0/3.6-4.0	
	1800	115/208-230	56	XS13CA2J	$512	DS-3FMP	1.00	12.7	32	6.8/3.3-3.4	
	1200	115/230	56	XS13CA3P	$912	DS-3FMP	1.00	12.7	32	7.2/3.6	
1/2	3600	115/208-230	56	XS12CA1J	$608	DS-3FMP	1.00	13.2	29	8.8/4.1-4.4	
	1800	115/208-230	56	XS12CA2J	$563	DS-3FMP	1.00	13.2	32	9.8/4.9-4.9	
	1200	115/230	56H	XS12CA3P	$1,053	DS-3FMP	1.00	14.2	32	10.0/5.0	
3/4	3600	115/208-230	56	XS34CA1J	$608	DS-3FMP	1.00	13.2	32	10.4/5.3-5.2	
	1800	115/208-230	56	XS34CA2J	$630	DS-3FMP	1.00	13.7	32	12.6/6.3-6.3	
1	3600	115/208-230	56	XS1CA1J	$686	DS-3FMP	1.00	14.2	41	12.0/6.3-6.0	
	1800	115/208-230	56H	XS1CA2JH	$714	DS-3FMP	1.00	14.2	32	14.0/6.9-7.0	

Note 28 TENV Enclosure

Painted Washdown Single Phase, Totally Enclosed, C-Face



The Slicker™

APPLICATIONS:

Suitable for food processors, canners, meat packers, bakeries, dairies, drug and cosmetic manufacturers for sanitary, easily cleaned motors.

FEATURES:

- Class F Insulation
- USDA® Approved Non-Toxic White Epoxy Paint
- V-Ring Rotating Lip Seal On Shaft End
- F1 Assembly Position
- Double Contact Sealed Ball Bearings
- Reversible Rotation
- Internal Corrosion Protection On Rotor, Stator, Winding & Frame
- Stationary Grease Seal On Both Ends
- 303 Stainless Steel Shaft
- Moisture Resistant Gasketed Conduit Box With NPT Lead Holes
- Totally Enclosed Fan Cooled (TEFC) Except Where Noted
- Multiple Stainless Steel T-type Drains
- Automatic Reset Thermal Overload Protector on Yoke Mount Fan Motors
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/2	3600	115/208-230	56C	WD12C1JC	$523	DS-3WD	1.15	11.8	32	7.3/3.9-3.7	28
	1800	115/208-230	56C	WD12C2JC	$537	DS-3WD	1.15	12.8	26	9.5/4.6-4.8	25
3/4	3600	115/208-230	56C	WD34C1JC	$538	DS-3WD	1.15	12.3	30	9.7/5.3-4.9	28
	1800	115/208-230	56C	WD34C2JC	$611	DS-3WD	1.15	13.3	32	12.8/6.4-6.5	
1	3600	115/208-230	56C	WD1C1JC	$583	DS-3WD	1.15	13.3	32	13.6/6.9-6.8	
	1800	115/208-230	56HC	WD1C2JHC	$702	DS-3WD	1.15	13.8	28	15.4/7.8-7.6	
1 1/2	3600	115/208-230	56HC	WD32C1JHC	$768	DS-3WD	1.15	13.8	32	14.6/8.1-7.4	CSCR,25
	1800	115/208-230	56HC	WD32C2JHC	$896	DS-3WD	1.15	15.3	32	14.4/8.0-7.2	CSCR
2	1800	115/230	56HC	WD2C2PHC	$1,052	DS-3WD	1.15	15.3	48	19.6/9.8	CSCR,25

Footless

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/2	3600	115/208-230	56C	WD12C1JCR	$576	DS-3WD	1.15	11.8	32	7.3/3.9-3.7	28
	1800	115/208-230	56C	WD12C2JCR	$663	DS-3WD	1.15	12.8	32	8.8/4.3-4.4	28
3/4	1800	115/208-230	56C	WD34C2JCR	$748	DS-3WD	1.15	13.8	41	7.8/4.3-3.9	CSCR,28
1	1800	115/208-230	56C	WD1C2JCR	$848	DS-3WD	1.00	14.3	32	10.3/5.5-5.2	CSCR
2	1800	115/230	56C	WD2C2JCR	$1,059	DS-3WD	1.15	15.3	48	19.6/9.8	CSCR

Permanent Split Capacitor, Yoke Mount, Non-Oscillating Totally Enclosed Air Over (TEAO) Fan Motors

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/4	1800	115/230	56YZ	WD14AA2PZ7	$426	DS-3WD	1.00	10.9	19	3.5/1.7	24
1/3	1800	115/230	56YZ	WD13AA2PZ7	$448	DS-3WD	1.00	10.9	16	4.9/2.5	24
1/2	1800	115/230	56YZ	WD12AA2PZ7	$481	DS-3WD	1.00	11.9	32	5.9/2.9	24

Note 24 Automatic Reset Thermal Protector Overload
Note 25 Non-protected
Note 28 TENV Enclosure
Note CSCR Capacitor Start /Capacitor Run

Heating & Air Conditioning Motors

Horsepower: 1/10 – 2 HP

Phase: Single & Three Phase

RPM: 825, 1075, 1625 or 3450 RPM

Voltage: 115, 208-230, 460 or 575 Volts, 60 Hz; some motors are rated 50/60 Hz

Efficiency: Standard and Premium Efficient

Enclosure:
- Open Drip Proof (ODP)
- Totally Enclosed, Air Over (TEAO)

Mounting: Extended Stud or Resilient Rings. Also many have mounting hardware or shell holes. Other hardware available in accessory section.

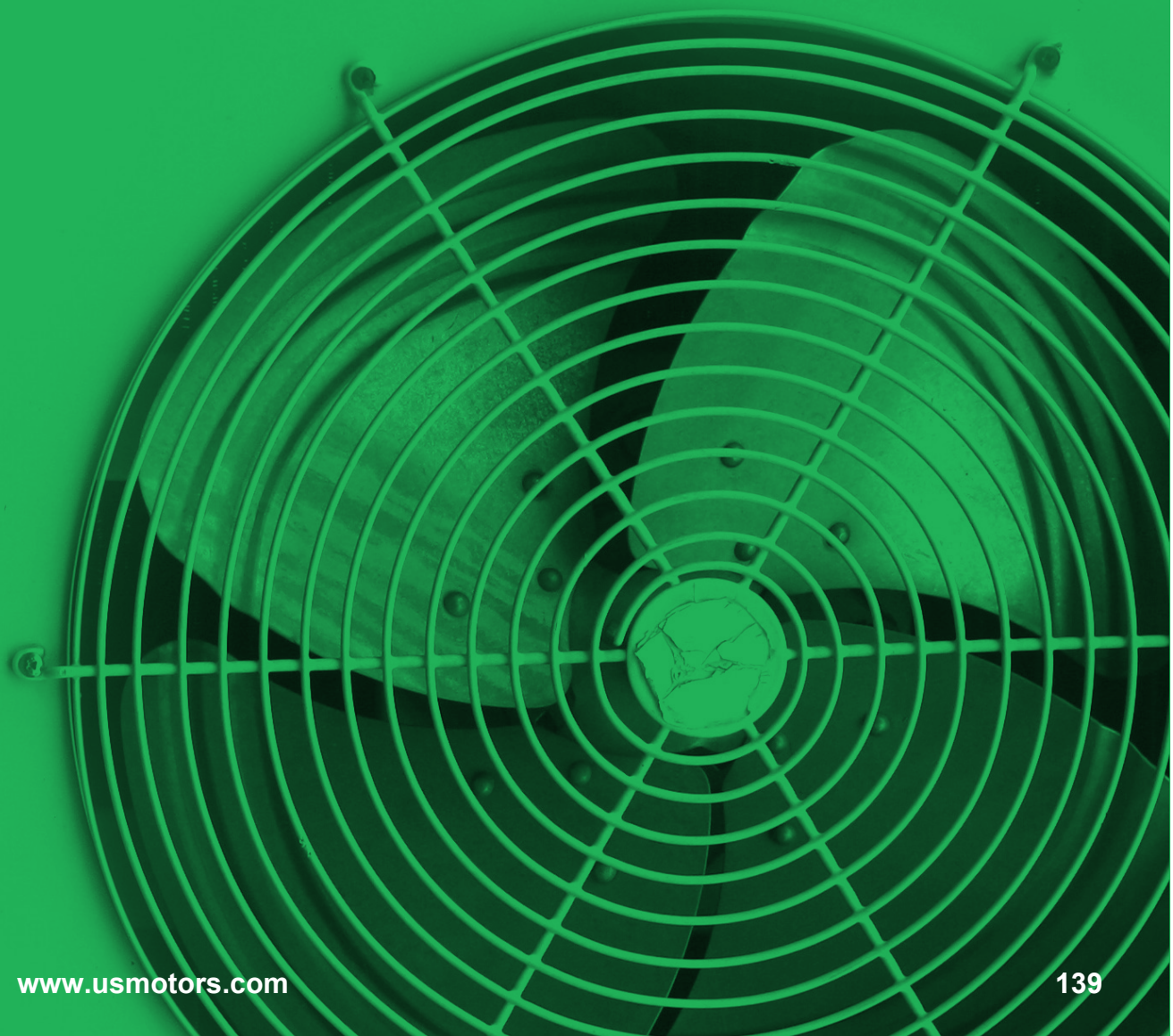
Bearings: Self Aligning or Ball available

Lubrication: Permanent on most units

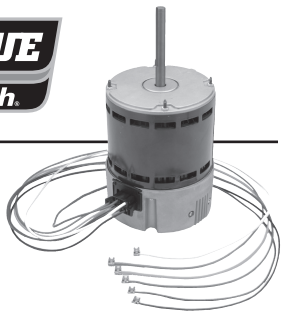
Temp Rise: Class A or B as noted

Thermal Overload: Internal automatic thermal overloads unless otherwise noted

Agency: UL®† Recognized and CSA®† Certified



RESCUE ECOTECH® High Efficiency Direct Drive Blower Motor

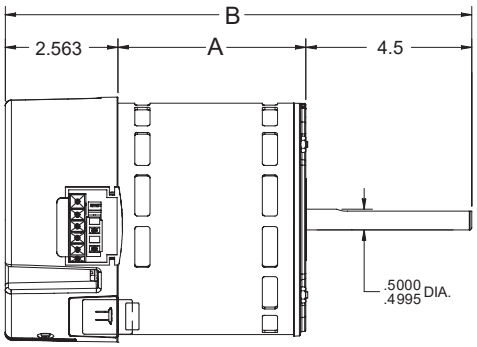


APPLICATIONS:

Drop-in replacement for PSC Direct Drive Commerical and Residential Air Handlers and Furnaces.

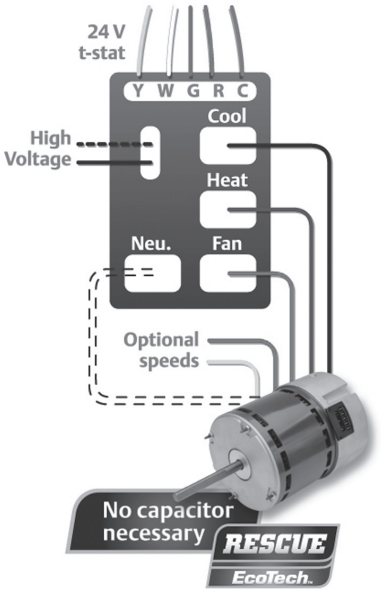
FEATURES:

- Electronically Controlled Brushless Permanent Magnet Motor
- 40°C Ambient Rated
- Reversible Rotation
- 48 Frame (5.6" Diameter)
- No Capacitor Required
- 2 Year Warranty
- Electronically Protected Motor
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- Continuous Duty, Air Over
- Ball Bearing
- Class B Insulation
- 36" Leads
- 50 Hz Capable
- **Discount Symbol: DS-3ECM**



HP	RPM	Voltage	Catalog Number	List	Recommended Cooling Speed	Recommended Heating Speed	Shaft Dia. x Length	Shell Length	Total Length	Ship Wt.
1/3 – 1/5	1075	115 / 208-230	5522ET	♦	High (Blk)	Med-Hi (YL)	.50 x 4.5	3.41	10.48	9
1/2 – 1/4	1075	115 / 208-230	5532ET	♦	High (Blk)	Med-Hi (YL)	.50 x 4.5	3.66	10.73	10
3/4 – 1/3	1075	115 / 208-230	5542ET	♦	High (Blk)	Med-Hi (YL)	.50 x 4.5	4.04	11.10	15
1 – 1/2	1075	115 / 208-230	5552ET	♦	High (Blk)	Med-Hi (YL)	.50 x 4.5	4.41	11.48	15

♦ Refer to Motorboss for Pricing



For illustration purposes only.
Actual connections may vary.

- **Up to 82% Efficient** – provides a 25% increase in efficiency compared to a conventional PSC blower motors in heating and cooling. 75% watt reduction in circulation mode.
- **Exclusive Speed-Sensing Technology** – allows the RESCUE ECOTECH® motor to connect just like a traditional PSC motor
- **Fits a Wide Variety of Applications** – Will work in both air handlers and furnaces and accepts several mounting methods, including flex mounts
- **Wide Speed Range** – Five available speeds insure contractors are able to easily meet the system's airflow needs while a low 600 RPM fan speed provides quiet, efficient air circulation.
- **Active Airflow Management** – The RESCUE ECOTECH® motor's advanced electronic control allows the motor to react to changes in the system, helping to maintain airflow as static pressures change.

RESCUE® Motors Permanent Split Capacitor Condenser Fan 5.6" Diameter, Totally Enclosed Air Over (TEAO)

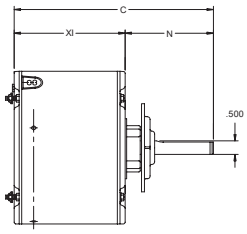


APPLICATIONS:

Commercial and Residential Condensing Units. Can replace a range of horsepower application and a variety of mounting styles.

FEATURES:

- High 158°F (70°C) Or 140°F (60°C) Ambient Designs
- Automatic Reset Thermal Overload Protector
- Designed For Use With 370V Capacitors
- Special Treated Rotor For Corrosion Protection
- Includes Lead End Mounting Holes For RHEEM® or TRANE® Units
- 48" Leads
- Extended Mounting Studs
- Ball Bearings
- Reversible Rotation
- High Efficiency Design
- Continuous Duty, Air Over
- Reversible Rotation
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data



RESCUE® Condenser Motors available in 158°F (70°C) ambient ratings! See below

HP	RPM	Voltage	Catalog Number	List	Max. Ambient	Speed Tap	Cap. MFD	Amps	Shaft N	Shell XI	Total C	Ship Wt.	Notes
1/3	825	208-230	5464	♦	140°F(60°C)	High	7.5	1.9	5	5.3	10.3	18	H43
1/4						High	7.5	1.5					
1/5						Low	7.5	1.2					
1/6						Low	7.5	1.0					
1/3	825	208-230	5464H	♦	158°F(70°C)	High	7.5	1.9	5	5.3	10.3	18	H43
1/4						High	7.5	1.5					
1/5						Low	7.5	1.2					
1/6						Low	7.5	1.0					
1/3	1075	208-230	5472	♦	140°F(60°C)	High	7.5	2.4	5	3.8	8.8	11	H43
1/4						High	7.5	2.4					
1/5						High	7.5	2.4					
1/6						High	7.5	2.4					
1/3	1075	208-230	5462	♦	140°F(60°C)	High	5	2.6	5	4.6	9.6	14	H43
1/4						High	5	2.5					
1/5						Low	5	2.0					
1/6						Low	5	1.8					
1/3	1075	208-230	5462H	♦	158°F(70°C)	High	5	2.6	5	4.6	9.6	14	H43
1/4						High	5	2.5					
1/5						Low	5	2.0					
1/6						Low	5	1.8					
1/2	1075	208-230	5465	♦	140°F(60°C)	High	10	3.0	5	5.3	10.3	15	H43
1/3						High	10	2.2					
1/4						Low	10	1.6					
1/5						Low	10	1.3					
1/2	1075	208-230	5465H	♦	158°F(70°C)	High	10	3	5	5.3	10.3	19	H43
1/3						High	10	2.2					
1/4						Low	10	1.6					
1/5						Low	10	1.3					
3/4	1075	208-230	5482H	♦	158°F(70°C)	High	15	4	5.5	6.3	11.8	21	H43
1/2						High	15	2.8					
1/3						Low	15	1.9					
1/4						Low	15	1.4					

460 Volt RESCUE® Condenser Fan Motors

HP	RPM	Voltage	Catalog Number	List	Max. Ambient	Speed Tap	Cap. MFD	Amps	Shaft N	Shell XI	Total C	Ship Wt.	Notes
1/2	1075	460	5480H	♦	158°F(70°C)	High	10	1.3	5.5	5.6	11.1	20	H43
1/3						High	10	0.9					
1/4						Low	10	0.7					
1/5						Low	10	0.5					
1/6						Low	10	0.5					
3/4	1075	460	5481H	♦	158°F(70°C)	High	15	2.2	5.5	6.3	11.8	25	H43
1/2						High	15	1.3					
1/3						Low	15	1.1					
1/4						Low	15	0.7					

♦ Refer to Motorboss for Pricing

Note H43: Side Shell & Lead End Mounting Screws Included In Carton

RESCUE® Motors Permanent Split Capacitor Direct Drive Fan & Blower, 5.6" Diameter, Open, Air Over

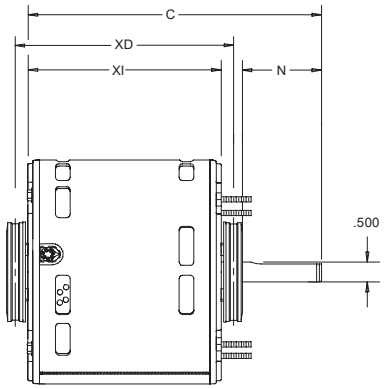


APPLICATIONS:

Commercial and Residential Air Handlers and Furnaces.
Can replace a range of horsepower applications and a variety of mounting styles.

FEATURES:

- Extended Mounting Studs
- Designed For Use With 370V Capacitors
- Class B Insulation
- 36" Leads
- High Efficiency Design®
- Includes Side Shell Holes For RHEEM®† Units
- Continuous Duty, Air Over
- Reversible Rotation
- Automatic Reset Thermal Overload Protector
- 2.5" Dia. Hub Rings Included
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- **Discount Symbol: DS-3HAC**

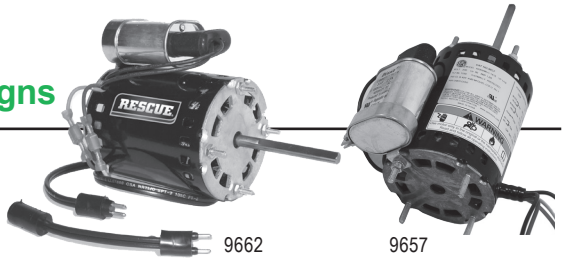


HP	Voltage	Catalog Number	List	RPM	Cool Speed Tap	Heat Speed Tap	Bearings	Cap. MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Ship Wt.	Notes
1/3	208-230	5469	♦	825	High	Med-Hi	SAB	7.5	2.4	4.5		5.3	9.8	17	H40
1/4					Med-Hi	Med-Lo		7.5	1.7						
1/8					Med-Lo	Low		7.5	0.9						
1/2	115	5460	♦	1075	High	Med-Hi	SAB	10	7.3	5.0	5.8	5.3	10.8	20	H23, H40
1/3					High	Med-Hi		7.5	6.9						
1/4					Med-Hi	Med-Low		7.5	5.5						
1/5					Med-Low	Low		7.5	3.6						
1/6					Low	Low		7.5	2.8						
1/2	208-230	5461	♦	1075	High	Med-Hi	SAB	10	3.6	5.0	5.8	5.3	10.3	15	H23, H40
1/3					High	Med-Hi		5	3.5						
1/4					Med-Hi	Med-Low		5	2.8						
1/5					Med-Low	Low		5	1.9						
1/6					Low	Low		5	1.3						
3/4	115	5470	♦	1075	High	Med-Hi	Ball	20	8.1	5.0	6.6	6.1	11.6	17	H40
1/2					High	Med-Hi		10	6.6						
1/3					Med-Hi	Med-Low		10	4.6						
1/4					Med-Low	Low		10	3.8						
1/5					Med-Low	Low		10	3.1						
3/4	208-230	5471	♦	1075	High	Med-Hi	Ball	20	4.1	5.0	6.6	6.1	11.6	16	H40
1/2					High	Med-Hi		10	3.7						
1/3					Med-Hi	Med-Low		10	2.5						
1/4					Med-Low	Low		10	1.8						
1/5					Med-Low	Low		10	1.7						

♦ Refer to Motorboss for Pricing

Note H23: For 1/3 To 1/6 HP, if more air flow is needed, a 7.5 MFD capacitor may be used
Note H40: Screws For Shell Mounting Included In Carton

Permanent Split Capacitor Direct Drive Fan
3.3" Diameter, Open and Totally Enclosed Designs



9662 9657

APPLICATIONS:

High efficiency PSC motors for refrigeration evaporator and general purpose.

FEATURES:

- Four 8-32 x 1/2" Stud Extensions At Each End
- Ball Bearings Have All Angle Thrust System
- Automatic Reset Thermal Overload Protector
- 9656 and 9662 feature dual plug cord for flexibility
- Dual Studs
- PSC Design with Capacitor Included
- 12" Leads

Open Air Over

HP	RPM	Voltage	Catalog Number	List	Enclosures	Rotation	Amps	Shell Length	Shaft Dia. x Length*	Ship Wt.	Notes
1/20	1550	115	9632	♦	OAO	Rev	0.85	3.3	5/16 x 2 .38	4	
1/12-1/20	1550	115/230	9664	♦	OAO	Rev	1.2-0.95/0.6-0.5	4.2	5/16 x 2 .50	5	
	1550	115/230	9721	♦	OAO	Rev	1.1/0.57	3.8	5/16 x 3.25	4	
1/10	1550	230	9657	♦	OAO	Rev	1.00	4.5	5/16 x 3 .75	6	

Totally Enclosed, Air Over

HP	RPM	Voltage	Catalog Number	List	Enclosures	Rotation	Amps	Shell Length	Shaft Dia. x Length*	Ship Wt.	Notes
1/50	1550	115	9641	♦	TEAO	Rev	0.5	3.06	1/4 x 2 .25	5	
1/50-1/70	1550	115	9624	♦	TEAO	Rev	0.43-0.37	3.06	1/4 x 2 .50	3	
1/30-1/40	1550	115	9628	♦	TEAO	Rev	0.6-0.55	3.25	5/16 x 2 .50	4	

OEM Direct Replacements

HP	RPM	Voltage	Catalog Number	List	Enclosures	Rotation	Amps	Shell Length	Shaft Dia. x Length*	Ship Wt.	Notes	OEM
1/20	1550	115	9662	♦	OAO	Rev	0.85	3.25	5/16 X 3.0	4	H30	BO
	1550	230	9648	♦	TEAO	Rev	0.36	3.25	5/16 x 2.26	4		FE
	1550	115/230	9654	♦	TEAO	CW	0.8/0.4	3.4	5/16 x 1 .63	4	H31	KR
1/15	1550	230	9656	♦	OAO	Rev	0 .48	3.77	5/16 x 3 .0	4	H30	BO

BO = Bohn FE = Fedders KR = Krack

♦ Refer to Motorboss for Pricing

Note H30: Includes Special Cord And Plug
Note H31: Includes Special Mounting Lugs, No Threaded Studs

Permanent Split Capacitor Condenser Fan
5.0" Diameter, Totally Enclosed Air Over (TEAO)



APPLICATIONS:

Residential condensing unit fan motor.

FEATURES:

- 42" Leads
- Shaft Down Mount
- #8-32 Studs
  Fig A: 4.312" dia. bolt circle
  Fig B: 4.464" dia. bolt circle
- Designed for use with 370V Capacitor
- 1/2" Dia. Shaft with Flat
- Reversible Rotation
- Automatic Reset Thermal Overload Protector
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- **Discount Symbol: DS-3HAC**

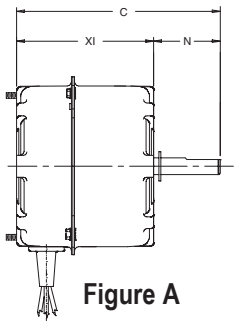


Figure A

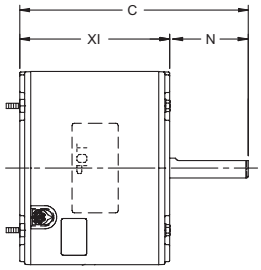


Figure B

"Clam Shell" Single Speed, Stud Mount, Without Capacitor (Fig A)

HP	RPM	Voltage	Catalog Number	List	Bearings	Cap. MFD	Amps	Shaft N	Shell XI	Total C	Ship Wt.	Notes	OEM
1/10	1075	208-230	2243	♦	Ball	5.0	0.75	2.7	4 .1	6.9	10		
1/8	1075	208-230	2249	♦	Ball	5.0	0.90	2.7	4 .1	6.9	10		
1/5	1075	208-230	2246	♦	Ball	5.0	1.60	2.7	4.1	6.9	10		
1/4	1075	208-230	2250	♦	Ball	7.5	1.70	2.7	4.1	6.9	10		

5.0" Single Speed, Stud Mount, Without Capacitor (Fig B) 4.464 BC

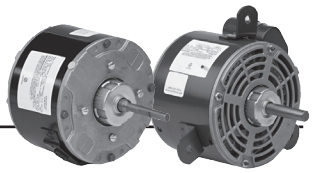
HP	RPM	Voltage	Catalog Number	List	Bearings	Cap. MFD	Amps	Shaft N	Shell XI	Total C	Ship Wt.	Notes	OEM
1/20	1625	230	1989P	♦	SAB	3.0	0.8	2.5	3.8	6.3	8	H35, H42, 98,H20	CO
1/8	1550	230	1675	♦	SAB	5.0	0.8	3.0	3 .8	6 .8	8	H35, H16	TR
1/8-1/12	1075	208-230	5440H	♦	Ball	5.0	0.8	3.0	4.1	7.1	10		
1/6	1075	208-230	1901	♦	SAB	5.0	1.0	2.0	3 .8	5 .8	11 .4		LE
1/4-1/8	1625	208-230	5442H	♦	Ball	5.0	1.5	3.0	4.6	8.5	9		
1/4-1/6	1075	208-230	5441H	♦	Ball	5.0	1.5	3.0	4.6	7.6	10		

TR= Trane CO = Copeland LE = Lennox

♦ Refer to Motorboss for Pricing

Note 98: 50/60 Hz
Note H16: CCWLE rotation only
Note H20: CWLE rotation only
Note H35: Open Air Over
Note H42: Shaft-down mounting

Refrigeration Condenser Fan 5.0" and 5.6" Diameter
Open Drip Proof, Totally Enclosed Air Over and Open Air Over



APPLICATIONS:

Condenser cooling fan motors to meet manufacturer's requirements for commercial refrigeration units.

FEATURES:

- OEM Direct Replacements
- Single Speed
- Automatic Reset Thermal Overload Protector
- Designed for use with 370V Capacitors
- 208v will not be marked on DOE regulated spread-voltage motors Refer to online data
- **Discount Symbol: DS-3HAC**

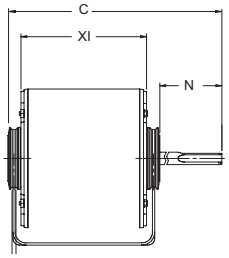


Figure A

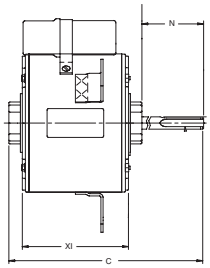


Figure B

5.0" Diameter, 5/16" Diameter Shaft

HP	RPM	Voltage	Catalog Number	List	Bearings	Cap. MFD	Amps	Shaft N	Shell XI	Total C	Shaft Dia.	Mount	Ship Wt.	Notes	OEM
1/20	1500	230	1775P	♦	SAB	3.0	.5	3.1	3.8	6.9	5/16"	Stud	8.8	98, 64	TE
1/15	1500	230	1779P	♦	SAB	3.0	.62	3.1	3.8	6.9	5/16"	Stud	8.8	98, 64	TE

5.6" Permanent Split Capacitor

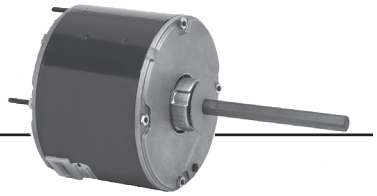
HP	RPM	Voltage	Catalog Number	List	Bearings	Cap. MFD	Amps	Shaft N	Shell XI	Total C	Mount	Ship Wt.	Notes	OEM
1/15	1475/1375	265	3037	♦	Ball	4.0	0.5	2.0	3.9	6.5	3 Lugs	5		
	1125	208-230	CA3411	♦	SAB	5.0	1.0	3.4	3.6	6.9	Stud	7	H45	
	800	200-230	CA3407	♦	SAB	5.0	0.7	1.5	3.6	5.1	Stud	7	H45	
1/10 - 1/15	1550	115	1101	♦	Ball	3.0	1.6-1.1	4	3.6	7.6	Stud	9	H45	
1/10	810	277	1679	♦	SAB	5.0	0.5	2.5	4.1	6.6	Flex Mount	13	H35	
1/8-1/6	810	208-230	GM753	♦	Ball	5.0	.83-.98	3.1	4.1	7.2	Stud	10	H45	
1/6	1550	208-230	6128	♦	SAB	5.0	0.9	2.5	4.1	7.7	Resilient	9	98, 64, H36	CO
	1550	208-230	1645	♦	Ball	3.0	1.4	2.1	3.8	6.4	Stud	12	H35	HU
	1550	460	1265	♦	SAB	3.0	0.6	3.1	4.1	7.1	Stud	9	98	CO
	1550	208-230	1527P	♦	SAB	3.0	1.4	2.9	3.6	6.5	Belly Band	19	H36	
	1550	208-230	6135	♦	SAB	5.0	1.1	3.1	3.8	6.9	Stud	9	98, H36	
	1075	208-230	LX7925	♦	SAB	5.0	1.0	2.3	3.8	6.1	Stud	8	H45	
	825	208-230	LX7927	♦	SAB	5.0	1.1	4.9	4.1	9.5	Stud	9	H45	
1/5	1075	208-230	1648	♦	Ball	4.0	2.0	2.5	4.3	7.9	Stud	12	H35	HU
	1075/900	208-230/220	LX7929	♦	SAB	5.0	1.1	1.5	4.3	6.3	Stud	8	98, H42, H45	
	1075	575	1093	♦	Ball	4.0	0.8	2.5	4.8	8.4	Stud	13	H36	
	825	200-230	CA3412	♦	SAB	7.5	1.3	1.6	4.6	6.2	Stud	10	H45	
1/4	1550	230	6124	♦	SAB	5.0	2.1	3.0	4.1	7.1	Band	13	64, H36	CO
	1625	208-230	6129	♦	SAB	5.0	1.5	2.5	4.3	7.9	Resilient	15	64, H36	CO
	1625	230	3042	♦	Ball	4.0	1.4	1.5	5.1	7.7	Hub Ring	15	64, H4, H36	TY
	1625	230	8330	♦	SAB	4.0	1.9	2.2	4.3	7.7	3 Lugs	12	64, 98, H36, H42	TE
	1625	460	8331	♦	SAB	4.0	0.95	2.2	4.3	7.7	3 Lugs	13	98, 64, H36, H42	TE
	1625	460	6138	♦	SAB	5.0	0.90	3.1	4.8	7 .9	Stud	19	64, 98	CO
	1625	575	1312	♦	SAB	5.0	0.7	3.1	4.8	7.9	Stud	19	64, 98	
	1075	208-230	CA3406	♦	SAB	7.5	1.5	2.5	4.6	7.1	Stud	13	H35	
	825	208-230	LX7931	♦	SAB	10.0	1.7	2.3	4.8	7.1	Stud	14	H45	
1/3	1625	208-230	6127	♦	SAB	4.0	2.2	1.8	5.8	8.7	Resilient	15	98, 64, H45	CO
	1625	208-230	7232	♦	SAB	6.0	2.9	3.7	4.6	9.3	Resilient	23	64, H35	HR
	1600	208-230	CA3409	♦	SAB	7.5	2.0	5.3	4.1	15.7	Hub Ring	15	H36	
	1075/2	208-230	1354	♦	Ball	7.5	2.0	3.1	4.8	8.4	3 Lugs	11	H36	
	1075	208-230	LX7926	♦	SAB	7.5	1.7	2.8	4.3	7.1	Stud	12	H45	
	1075	208-230	LX7928	♦	Ball	10.0	2.4	4.4	4.8	9.3	Stud	14	H45	
	1075	208-230	LX7932	♦	SAB	7.5	1.7	2.8	4.3	7.1	Stud	12	H45	
	1075	115	LX7921	♦	SAB	5.0	5.1	4.0	5.1	9.1	Flex Mount	15	H35	
	1140	575	1267	♦	Ball	-	0.5	4.5	6.4	10.9	Stud	13	H45	
1/2	1725	208-230	644	♦	Ball	5.0	2.7	3.5	5.6	9.1	Stud	15	98, H18, H36	HU
	1100	208-230/460	4941	♦	Ball	12.5	2.8/1.5	4.5	5.9	11.4	Resilient	16	64, H18, H36	-
	1075	115	CA3413	♦	SAB	10.0	6.7	4.0	5.3	9.3	Stud	13	H35	
	1075	115	LX7920	♦	SAB	7.5	8.0	3.3	5.3	8.6	Flex Mount	16	H35	
	575	208-230/460	1139	♦	Ball	-	3.2-3.1/1.6	2.5	11.5	14.4	Footed	21	98, H45	
3/4	1075	115	CA3415	♦	SAB	10.0	10.0	4.0	5.6	9.6	Stud	17	H35	

CO = Copeland HU = Hussmann HR = Hill Refrigeration TE = Tecumseh TY = Tyler

♦ Refer to Motorboss for Pricing

Note 64: Capacitor Included
Note 98: 50/60 Hz
Note H4: 2-1/4" hub rings
Note H18: Conduit box
Note H35: Open Air Over
Note H36: Open Drip Proof
Note H42: Shaft Down
Note H45: Totally Enclosed, Air Over

Permanent Split Capacitor Condenser Fan
5.6" Diameter, Totally Enclosed Air Over (TEAO)

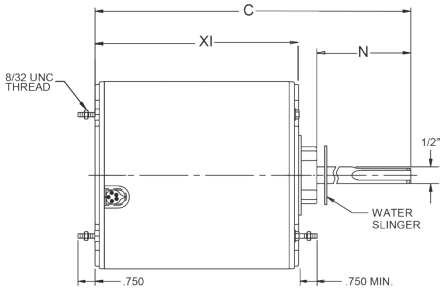


APPLICATIONS:

Residential and commercial condenser unit fan motors to meet manufacturer's requirements.

FEATURES:

- 140°F (60°C) Ambient Design
- Bearings Have All Angle Thrust System
- Class B Insulation
- Suitable for Use With 370V Capacitors
- Extended Studs
- 30" Leads
- Hubless Lead End
- Drain Holes Both Ends
- Reversible Rotation (Unless otherwise noted)
- Automatic Reset Thermal Overload Protector
- Continuous Duty
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- **Discount Symbol: DS-3HAC**



Stud Mount, Without Capacitor, 60°C, All Angle Mount

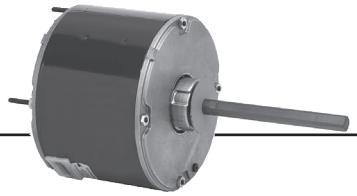
HP	RPM	Voltage	Catalog Number	List	Bearings	Cap. MFD	Amps	Shaft N	Shell XI	Total C	Ship Wt.	Notes	OEM
1/12	1100	208-230	3401	♦	SAB	5.0	0.67	1.6	3.6	5.7	8	H20	CA
1/10	825	208-230	1871	♦	SAB	3.0	1.0	6.0	3.8	10.4	12		
	1100	208-230	3402	♦	SAB	5.0	0.8	1.6	3.6	5.7	9	H20	CA
1/8	825	208-230	1872	♦	SAB	5.0	0.78	6.0	4 .1	10.6	12	72	
	825	200-230	1902	♦	Ball	5.0	0.74	1.9	4 .4	6.2	11	H16	TR
	825	208-230	5456	♦	SAB	5.0	1.2	3.8	4.1	7.8	10	72	RH
	1650	200-230	4895	♦	Ball	4.0	0.8	2.0	3.6	5.6	7		
1/6	825	460	1412	♦	Ball	5.0	0.5	4.7	4.6	9.3	18		
	825	208-230	1873	♦	SAB	5.0	1.0	6.0	4 .1	10.6	12	72	
	825	208-230	5457	♦	SAB	7.5	1.2	3.75	4.6	8.3	12	72	RH
	825/2	208-230	8673	♦	SAB	5.0	1.0	6.0	4.4	10.9	17		
	1075	208-230	1859	♦	SAB	5.0	1.0	4.5	3.8	8.8	10		
	1500	208-230	3405	♦	Ball	5.0	0.85	1.6	4.3	6.2	7	H20	CA
1/5	825	200-230	1903	♦	Ball	7.5	0.93	2.25	5.1	7.3	15	H16	TR
	1075	208-230	5450	♦	SAB	3.0	1.3	3.7	3.8	7.5	10	72, H16	RH
	1075	208-230	5454	♦	SAB	3.0	1.7	3.7	3.8	8.1	10	72	RH
1/4-1/8	825	208-230	1874	♦	SAB	5.0	2.0	6.0	4.3	10.9	11	72	
1/4	825	460	1880	♦	Ball	5.0	1.0	6.0	5.1	11.6	15		
	825	575	1276	♦	Ball	5.0	0.7	5.0	4.9	10.4	10		
	850	208-230	1743	♦	SAB	5.0	1.5	2.75	4.6	7.3	17	H20	YK
	825/2	208-230	8674	♦	SAB	7.5	1.5	6.0	4.6	11.1	15		
	1075	208-230	1860	♦	SAB	5.0	1.5	4.5	4.6	9.6	10	72	
	1075	208-230	1876	♦	Ball	5.0	1.5	4.5	4.6	9.6	11		
	1075	460	3736	♦	Ball	7.5	0.8	6.0	4.6	11.1	14		
	1100	208-230	3404	♦	SAB	5.0	1.8	1.6	4.1	6.2	11	H20	CA
	1625	208-230	1890	♦	SAB	5.0	1.4	5.0	4.3	9.9	12		

CA = Carrier RH = Rheem YK = York TR = Trane

♦ Refer to Motorboss for Pricing

Note 72: Includes 4 Holes in Shell for Rheem Mount
Note H16: CCWLE rotation only
Note H20: CWLE rotation only

Permanent Split Capacitor Condenser Fan
5.6" Diameter, Totally Enclosed Air Over (TEAO)



(continued)

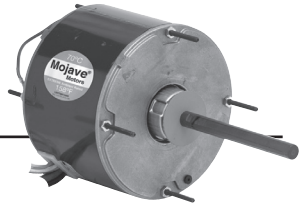
HP	RPM	Voltage	Catalog Number	List	Bearings	Cap. MFD	Amps	Shaft N	Shell XI	Total C	Ship Wt.	Notes	OEM
1/3-1/5	825	208-230	1875	♦	SAB	7.5*	2.4-1.4	6.0	4.5	11.6	15	72	
1/3	825/2	208-230	8675	♦	SAB	7.5	2.0	6.0	5.4	11.9	18		
	825	460	1881	♦	Ball	7.5	1.0	6.0	5.6	12.1	18		
	825	575	1296	♦	Ball	7.5	1.1	5.0	5.4	10.9	17		
	1075	208-230	1861	♦	SAB	7.5	2.0	4.5	4.6	10.1	14	72	
	1075	208-230	5455	♦	SAB	5.0	2.0	3 .7	4.1	8.3	13	72	RH
	1075	208-230	1877	♦	Ball	7.5	2.0	4.5	4.6	10.1	14		
	1075	460	3737	♦	Ball	7.5	1.3	6.0	5.4	11.9	17		
	1075/2	208-230	8670	♦	SAB	7.5	2.2	6.0	4.8	11.4	16	71	
	1625	208-230	1891	♦	Ball	7.5	1.6	5.0	4.6	10.1	11		
1/3-1/6	825/2	208-230	5464	♦	Ball	10 / 7.5	1.9 / 1.2	4.5	5.3	10.3	18	72	
	1075	208-230	3322	♦	SAB	10.0	1.8	5.0	4.6	9.6	13	72	
	1075	208-230	3323	♦	Ball	7.5	2.0	5.0	4.3	9.3	13	72	
	1075/2	208-230	5462	♦	Ball	7.5 / 5.0	2.6 / 1.8	5.0	4.6	9.6	15	72	
1/3	1075	460	LX7922	♦	Ball	10.0	1.3	3.5	5.3	9.3	15	H16	
1/2	825	208-230	1870	♦	SAB	12.5	2.8	6.0	5.8	12.4	22		
	825	460	1882	♦	Ball	10.0	1.6	6.0	6.3	12.9	21		
	1075	208-230	1862	♦	SAB	10.0	3.1	4.5	5.3	10.3	16	72	
	1075	208-230	1878	♦	Ball	10.0	3.1	4.5	5.3	10.3	17		
	1075	208-230	3324	♦	SAB	15.0	2.6-1.7	5.0	5.8	10.8	16		
	1075	208-230	3325	♦	Ball	15.0	2.6-1.7	5.0	5.8	10.8	16		
	1075	460	3738	♦	Ball	10.0	1.5	6.0	5.9	12.4	19		
	1075	575	1098	♦	SAB	10.0	1.0	5.0	6.0	11.4	20		
	1075/2	208-230	8671	♦	SAB	10.0	2.9	6.0	5.8	12.4	21	71	
	1625	208-230	1892	♦	SAB	5.0	3.0	5.0	5 1	10 .6	16		
	1625	575	1198	♦	Ball	7.5	1.0	6.0	5.3	11.9	17		
1/2-1/5	1075/2	208-230	5465	♦	Ball	12.5 / 10.0	3.0 / 1.3	4.5	5 .3	10.3	15	72	
3/4	1075	208-230	1868	♦	SAB	10.0	4.7	5.0	5.8	11.4	21		
	1075	208-230	1879	♦	Ball	10.0	4.7	6.0	5.8	12.3	21		
	1075	460	3742	♦	Ball	10.0	2.0	6.0	6.3	12.9	21		
	1060	575	1099	♦	SAB	12.5	1.25	5.0	6.0	11.4	18		
1	1075	460	1409	♦	Ball	25.0	2.5	6.0	6.8	13.4	25		

RH = Rheem

♦ Refer to Motorboss for Pricing

Note 71: 1.5" Stud Ext., Shaft End only, 104°F (40°C) Ambient, Double Flats
Note 72: Includes 4 Holes in Shell for Rheem Mount
Note H16: CCWLE Rotation Only
*Uses 440V capacitor.

Permanent Split Capacitor MOJAVE® Series Condenser Fan 5.6" Diameter, Totally Enclosed Air Over (TEAO)

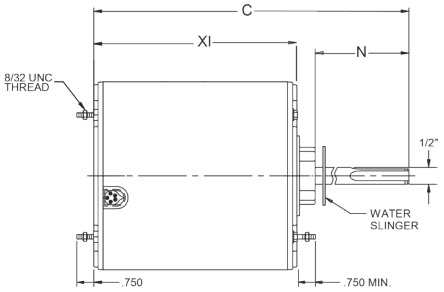


APPLICATIONS:

Residential and commercial condenser unit fan motors in extreme temperature locations.

FEATURES:

- 158°F (70°C) Ambient Design
- Ball Bearings Have All Angle Thrust System
- Class F Insulation
- Suitable for use with 370V Capacitors
- Extended Studs
- 48" Leads
- Hubless Lead End
- Drain Holes Both Ends
- Reversible Rotation
- Automatic Reset Thermal Overload Protector
- Continuous Duty
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- **Discount Symbol: DS-3HAC**



Stud Mount, Without Capacitor, Extreme High Ambient Design, All Angle Mount

HP	RPM/ Spd.	Voltage	Catalog Number	List	Cap. MFD	Amps	Shaft N	Shell XI	Total C	Ship Wt.	Notes
1/8	825	208-230	1872H	♦	5.0	0.78	6.0	4.3	10.6	13.7	H25
1/6	825	208-230	1873H	♦	5.0	1.2	6.0	4.3	10.6	14	H25
	1075	208-230	1859H	♦	5.0	1	5.0	4.0	9.4	11	H25
1/4	1075	208-230	1860H	♦	5.0	1.7	6.0	4.1	10.6	12	H25
1/4-1/8	825	208-230	1874H	♦	5.0	2.1	6.0	4.4	10.9	13.0	H25
1/3-1/6	825/2	208-230	5464H	♦	7.5	1.9	4.5	5.3	10.3	18	H43
	1075/2	208-230	5462H	♦	5.0	2.6	4.5	4.6	9.6	14.4	H43
	1075	208-230	3323H	♦	7.5	2.0	5.0	4.3	9.3	10	B, H25
1/3	1075	208-230	1861H	♦	7.5	2.1	6.0	4.6	11.1	18	H25
1/3-1/5	825	208-230	1875H	♦	7.5	2.4	6.0	5.3	11.6	18.4	H25
1/2-1/5	1075/2	208-230	5465H	♦	10.0	3	4.5	5.3	10.3	20	H43
	1075	208-230	3325H	♦	15.0	2.6-1.7	5.0	5.8	10.8	17	
1/2	1075	208-230	1862H	♦	10.0	3.2	6.0	5.3	11.9	19	H25
	825	208-230	1870H	♦	10.0	3.3	6.0	5.8	12.4	17.0	
3/4	1075	208-230	1868H	♦	10.0	4.7	6.0	5.8	12.4	21	
3/4-1/4	1075/2	208-230	5482H	♦	15.0	4.5	5.0	6.3	11.9	21	H43

460 Volt

HP	RPM/ Spd.	Voltage	Catalog Number	List	Cap. MFD	Amps	Shaft N	Shell XI	Total C	Ship Wt.	Notes
1/4	1075	460	3736H	♦	7.5	0.8	6	4.6	11 .1	11	H25
1/3	1075	460	3737H	♦	7.5	1.0	6	5.1	11.6	15	H25
1/2	1075	460	3738H	♦	10	1.5	6	5.3	11.8	18	H25
1/2-1/6	1075/2	460	5480H	♦	10	1.3	5	5.6	11 .1	20	H43
3/4	1075	460	3742H	♦	10	2	6	6.3	12 .9	23	
3/4-1/4	1075/2	460	5481H	♦	15	2.2	5	6 .3	11.9	24	H43

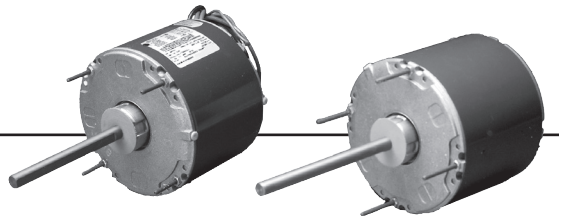
575 Volt

HP	RPM/ Spd.	Voltage	Catalog Number	List	Cap. MFD	Amps	Shaft N	Shell XI	Total C	Ship Wt.	Notes
1/4	1075	575	1295H	♦	7.5	0.6	5.0	4.4	9.8	11.4	
1/3	1075	575	1278H	♦	7.5	0.7	5.0	5.2	10.9	10	
1/2	1075	575	1098H	♦	10.0	1.3	5.0	6.4	11.4	20	
3/4	1060	575	1099H	♦	12.5	1.8	5.0	6.4	11.4	18	

♦ Refer to Motorboss for Pricing
Note B: Belly Band

Note H25: Includes 4 Holes With Screws In Shell For RHEEM® Mount
Note H43: Side Shell & Lead End Mounting Screws Included In Carton

Permanent Split Capacitor Condenser Fan
5.6" Diameter, Open Drip Proof, Air Over

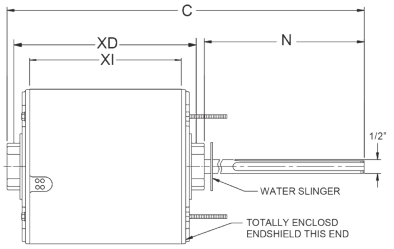


APPLICATIONS:

Designed to meet manufacturer's requirements for condenser cooling fans.

FEATURES:

- High Efficiency ECONOMIZER® Rated (except as noted)
- 60 Hz
- Capacitor Mounting Holes In Frame Band
- Continuous Duty, Air Over
- Water Slinger
- Designed for use with 370V Capacitors
- Automatic Reset Thermal Overload Protector
- Bearings have All Angle Thrust System
- Green Ground Lead
- Reversible Rotation (Unless otherwise noted)
- Class B Insulation
- Extended Studs are 8-32 UNC Thread unless otherwise noted
- 30" Leads
- Double Flats On Shaft
- Enclosed Endshield At Shaft End
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- **Discount Symbol: DS-3HAC**



Stud Mount, Shaft Up or Horizontal, Without Capacitor

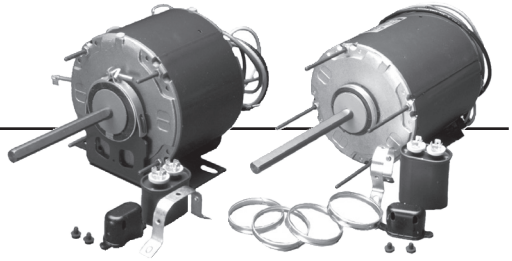
HP	RPM/ Spd.	Voltage	Catalog Number	List	Bearings	Cap. MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Ship Wt.	Notes	OEM
1/4	825	230	8666	♦	SAB	5.0	1.9	6.0	5.1	4.6	12.1	14		
	1075	208-230	3851	♦	SAB	5.0	1.7	5.0	4.7	4.4	9.9	10	62	
	1110	208-230	8230	♦	SAB	5.0	1.6	3.3	—	3.8	7.1	11	72, H33, H42	
	1100	208-230	4671	♦	SAB	5.0	1.3	9.0	—	3.8	13.9	10		
1/3	825	230	8667	♦	SAB	7.5	2.0	6.0	5.6	5.1	11.6	17		
	1075	208-230	6880	♦	SAB	5.0	2.2	5.0	4.9	4.3	10.4	12	62	
1/2	1075	208-230	3852	♦	SAB	7.5	3.1	5.0	5.4	4.8	10.9	16	62	
	1075	460	1128	♦	Ball	10.0	1.3	3.5	—	5.8	9.8	20	62, H16, H33	
3/4	1075	208-230	3097	♦	SAB	10.0	4.7	3.5	6.1	5.6	11.7	20		
	1075	230	8665	♦	Ball	12.5	4.4	6.0	5.9	5.3	12.4	19		
1	1125	208-230/460	1414	♦	Ball	25	6.1/3.1	5.0	—	6.3	11.3	23		
	1100	460	1413	♦	Ball	15	3.12	6.5	—	6.1	12.6	20		
	1080	200	8068	♦	Ball	30.0	5.9	4.5	—	6.1	11.1	23	H16, H9, H33	LE
	1080	230	8069	♦	Ball	20	4.9	4.5	—	6.1	11.1	18	62, H16, H9, H33	
	1075	208-230	1888	♦	Ball	15.0	5.2	6.0	6.8	6.3	13.4	24	62	

LE = Lennox

♦ Refer to Motorboss for Pricing

Note 62: Not an Economizer® model
Note 72: Includes 4 Holes in Shell for Rheem Mount
Note H9: 5/8" Shaft
Note H16: CCWLE rotation only
Note H33: No Hub on Lead End
Note H42: Shaft-end Ventilated, Lead-end Enclosed, Shaft-down Mounting Only

Permanent Split Capacitor Condenser Fan 5.6" Diameter, Open Drip Proof, Air Over



APPLICATIONS:

For use on condenser cooling fans.

FEATURES:

- High Efficiency Economizer® Rated (except as noted)
- 20" or 30" Leads unless otherwise noted
- Double Flats on Shaft—Economizer® Models
- Capacitor Mounting Holes In Frame Band
- Designed for use with 370V Capacitors
- Automatic Reset Thermal Overload Protector
- Bearings Have All Angle Thrust System
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- Enclosed Endshield at Shaft End
- Continuous Duty, Air Over
- Class B Insulation
- Green Ground Lead
- Extended Studs
- 60 Hz
- Reversible Rotation
- Water Slinger
- **Discount Symbol: DS-3HAC**

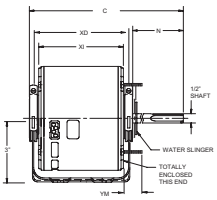


Figure A

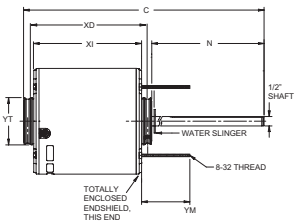


Figure B

Resilient Base, Shaft Up or Horizontal, With Capacitor (Figure A)

HP	RPM/ Spds.	Voltage	Catalog Number	List	Bearings	Cap. MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Stud YM	Ship Wt.	Notes	OEM
1/4	1625	460	6139	♦	SAB	5.0	0.9	2.5	5.4	4.8	8.4	-	13		
	1075	230	3846	♦	SAB	5.0	1.9	4.9	5.1	4.6	10.4	1	14	62	
1/3	1625	230	4811	♦	SAB	5.0	1.8	4.9	5.1	4.6	10.7	1	16		
	1625	230	4961	♦	Ball	5.0	1.8	4.9	5.1	4.6	10.7	1	16	62	
	1075	230	3847	♦	SAB	7.5	2.2	4.9	5.5	4.9	10.9	1	17		
	1075	230	4960	♦	Ball	7.5	2.2	4.9	5.4	4.8	10.9	1	17		
	1075	208-230	6986	♦	Ball	5.0	3.5	4.0	5.4	4.6	9.7	-	18		
1/2	1075	230	3848	♦	SAB	7.5	3.1	5.0	6.5	5.9	12.0	1	13		
	1075	230	7025	♦	Ball	7.5	3.1	4.9	6.4	6.0	11.9	1	20		

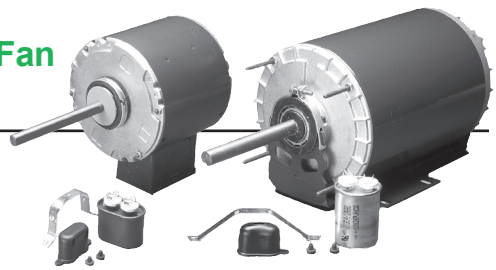
Hub Ring Mount (2 1/4"), Shaft Up or Horizontal, Without Capacitor (Figure B)

HP	RPM/ Spds.	Voltage	Catalog Number	List	Bearings	Cap. MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Stud YM	Ship Wt.	Notes	OEM
1/3	825	230	5345	♦	Ball	5.0	3.0	6.0	6.9	6.4	12.9	1	17	64	
	825	208-230	7040	♦	Ball	7.5	2.7	6.0	6.4	6.0	12.4	1	23		
1/2	825	230	7041	♦	Ball	12.5	2.8	6.0	6.7	5.8	13.2	1	22		

♦ Refer to Motorboss for Pricing

Note 62: Not an Economizer® model
Note 64: Capacitor Supplied Detached

Permanent Split Capacitor Commercial Condenser Fan Open Drip Proof & Totally Enclosed, Air Over



APPLICATIONS:

For use on condenser cooling fans in commercial air conditioning applications.

FEATURES:

- Capacitor and Outlet Box Included, unless noted
- Reversible Rotation
- Double-Sealed Ball Bearings
- Continuous Duty, Air Over
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- Automatic Reset Thermal Overload Protector
- 60°C Ambient
- Dual Voltage
- Class B Insulation
- **Discount Symbol: DS-3HAC**

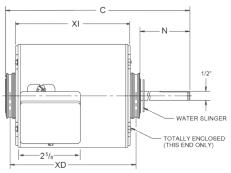


Figure A

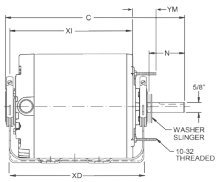


Figure B

5.6" Diameter, All Angle Mounting, Hub Ring Mount (2 1/4") (Fig. A)

HP	RPM/ Spds.	Voltage	Catalog Number	List	Mounting	Cap. MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Stud YM	Ship Wt.	Notes	OEM
1/3	1075	208-230/460	6727*	♦	Hub	5	2.4/1.2	5	5.9	5.3	11.4	N/A	16		
1/2	1075	208-230/460	7475*	♦	Hub	10	2.8/1.4	5	6.4	5.8	11.9	N/A	21		
	1075	208-230/460	2201*	♦	Hub	10	3.2/1.6	5	7.4	6.8	12.8	N/A	19	67	
	1075	208-230	8868	♦	Stud	10	3.8	3.0	-	6.3	9.3	.63	25	98, H15, H44	
	1075	460/400 & 460	8869	♦	Stud	10	1.5	3.0	-	6.3	9.3	.63	18		
	1075/1	575	1177	♦	3 Lug	7.5	1.9	3.0	-	-	8.8	-	18.2	104	
3/4	1075	208-230/460	2202*	♦	Hub	12.5	4.8/2.3	5	8.4	7.8	13.8	N/A	23	66, 67	
	1075	208-230/460	6603	♦	Hub	7.5	5.0/2.5	5	6.9	6.3	12.4	N/A	23	66, H16	
	1075	208-230/460	5489	♦	Hub	7.5	5.0/2.5	5	6.9	6.3	12.3	N/A	19	65, 66, H15	
	1075	460	8233	♦	Band	15.0	2.3	3	6.6	6.0	10.2	N/A	26	65, 66, H15	AA
	1075/1	208-230/460	1254	♦	Band	15	4.6	3.5	-	-	9.8	-	23	98	QU
1	1125	208-230/460	1376	♦	Hub	25	6.1/3.1	5.0	-	6.3	11.3	N/A	24		
	1080	460	8055	♦	Band	15.0	2.5	5.0	-	6.6	11.6	N/A	22	H16, H29	LE
	1075/1	575	1173	♦	Band	25	2.2	6.0	-	-	13.0	-	26.5		

6.3" Diameter, All Angle Mounting, Hub or Stud Mount (4) (Fig. A with 5/8" shaft)

HP	RPM/ Spds.	Voltage	Catalog Number	List	Mounting	Cap. MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Stud YM	Ship Wt.	Notes	OEM
1/2	825	208-230	3568	♦	Band	10.0	3.6	6.0	7.0	6.0	13.4	1.5	27	65, 66, H15	
3/4	1075	208-230	3566	♦	Stud	15.0	3.8	6.0	7.0	6.0	13.4	1.5	27	65, 66, H15	
	825	208-230	3567	♦	Stud	17.5	5.3	6.0	8.2	7.8	14.6	1.5	37	65, 66, H15	
1	1075	208-230	3565	♦	Stud	17.5	5.2	6.0	7.5	6.5	13.9	1.5	29	65, 66, H15	
	1075	208-230/460	2203*	♦	Hub	17.5	5.5-5.4/2.6	6.0	10.4	9.9	16.9	1.5	32	67	
	1075	208-230/460	8431	♦	Stud	12.5	5.8-5.4/2.7	6.0	10.3	9.8	16.4	1.8	32	65, 67	
1-1/2	1075	208-230/460	2204*	♦	Stud	20.0	8.5-7.6/3.8	6.0	10.9	10.4	17.3	1.5	42	67	

6.3" Diameter, Resilient Base (Fig. B)

HP	RPM/ Spds.	Voltage	Catalog Number	List	Mounting	Cap. MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Stud YM	Ship Wt.	Notes	OEM
3/4	1075	208-230/460	2193^	♦	Resilient	30.0	4.8/2.5	4.1	8.25	7.75	13	--	32	H15, H16, 98	
1	1075	208-230/460	2686*	♦	Resilient	17.5	5.1/2.6	5.0	10.45	9.95	15.8	1.5	41	68	
1-1/2	1075	208-230/460	2896*	♦	Resilient	20.0	7.5/3.8	5.0	10.95	10.45	16.3	1.5	45	67, 68	

AA = Aaron LE = Lennox QU = Quantum Precision®†

Note 65: Ventilated (In wet applications, position vent holes at bottom of motor; use rain shield if used shaft up.)
Note 66: No Outlet Box. Includes Leads
Note 67: Capacitor not included, Internal Conduit Box
Note 68: Quick Change Voltage Receptacle, No Outlet Box
Note 98: 50/60 Hertz
Note 104: Conduit Box Included Lugs 7" B.C.

Note H15: Capacitor Not Included
Note H16: CCWLE Rotation Only
Note H29: Includes Rain Shield, Shaft-up Mounting
Note H44: Stud Mount
♦ Refer to Motorboss for Pricing
^ 440 Capacitor
* Totally Enclosed

Three Phase Commercial Condenser Fan Open Drip Proof, Air Over

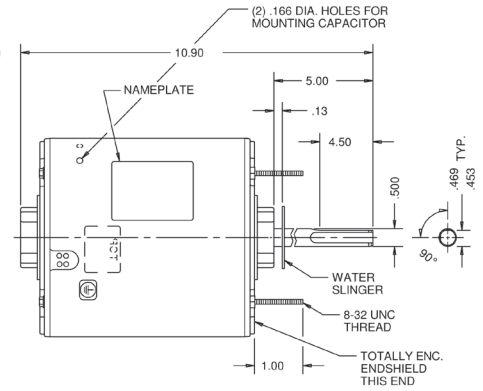


APPLICATIONS:

Designed to meet manufacturer's requirements for condenser cooling fans in commercial air conditioning applications where 3 phase power is required.

FEATURES:

- Automatic Reset Thermal Overload Protector
- Reversible Rotation
- Continuous Duty, Air Over
- Double-Sealed Ball Bearings
- Dual Voltage
- Class B Insulation
- 140°F (60°C) Ambient Rated
- Shaft-up Mounting
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data



Belly Band Mount, Flat and Keyway on Shaft

HP	RPM/ Spds	Voltage	Catalog Number	List	NEMA Frame	Amps	Shaft N	Total C	Shaft Diameter	Ship Wt.	Notes	OEM
1/2	1140/1	575	4940	♦	56YZ	.85	3.3	13.4	0.625	21.0		
	575/1	208-230/460	1260	♦	56YZ	3.2-3.1/1.6	3.6	14.4	0.625	21.4	98	
3/4	1140	208-230	3076	♦	48Y	3.6	3.0	11.8	0.500	27.0		
	1140/1	575	4958	♦	56YZ	1.2	6.0	14.8	0.625	27.0		
1	1140/1	575	4933	♦	56YZ	1.6	6.0	16.2	0.625	30.4		
	1140	200-230/460	1816	♦	56YZ	6.0/3.0	3.0	13.6	0.625	35.0		CA
	1140	200-230/460	1326	♦	48YZ	3.5-3.3/1.7	5.0	14.5	0.500	19.0		DB
	1140	200-230/460	8058	♦	56YZ	3.6/1.8	3.4	13.7	0.625	30.0		LE
	1140	208-230/460	2171	♦	56Z	4.2/2.1	4.9	14.4	0.625	29.0	98, H45	
	1140/1	575	1158	♦	48Y	1.4	5.5	13.1	0.625	21.0		
	1100/1	575	1266	♦	48Y	1.4	3	12	0.500	19.0		
1 1/2	1140/1	575	4934	♦	56YZ	2.3	6.0	16.3	0.625	39.0		
	1140	200-230/460	2170	♦	56YZ	5.7-5.2/2.6	6.7	17.7	0.625	37.0	H45	
	830/1	208-230/460	1219	♦	56YZ	6.6-3.3	3.5	14.2	0.625	54.0		
2	1140/1	575	1184	♦	56YZ	2.8	6.0	16.8	0.625	40.0		
	1120	208-230/460	2169	♦	56YZ	6.9-6.3/3.2	6.0	16.7	0.625	43.0	H45	

CA = Carrier DB = Dunham Bush LE = Lennox

Rigid Base Mount, Flat and Keyway on Shaft

HP	RPM	Voltage	Catalog Number	List	NEMA Frame	Amps	Shaft N	Total C	Shaft Dia.	Ship Wt.	Notes	OEM
3/4	1140	208-230/460	3913	♦	56Y	3.5/1.7	3.0	12.2	0.625	32.0	98	
1	1140/1	575	4936	♦	56Z	1.5	3.2	14.5	0.625	23.0		
1 1/2	1725	208-230/460	1419	♦	56	5.0-4.8/2.4	1.9	12.9	0.625	34.0	98	
2	1140/1	575	1140	♦	56HZ	2.8	6.0	16.8	0.625	44.2		

Flex Mount Mount, Flat on Shaft

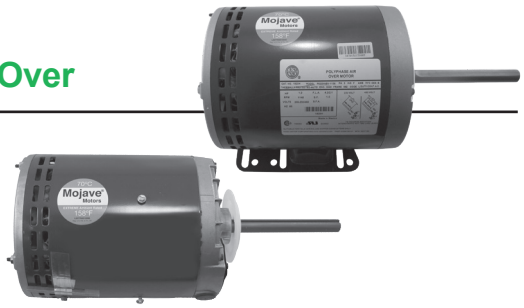
HP	RPM/ Spds	Voltage	Catalog Number	List	NEMA Frame	Amps	Shaft N	Total C	Shaft Dia.	Ship Wt.	Notes	OEM
1/3	1400	380/460	2387	♦	48Y	1	2.0	10.4	0.500	17	98	

♦ Refer to Motorboss for Pricing

Note 98: 50/60 Hz
Note H45: Totally Enclosed, Air Over



Three Phase MOJAVE® Series
Commercial Condenser Fan Open Drip Proof, Air Over



APPLICATIONS:

Designed to meet manufacturer's requirements for condenser cooling fans in commercial air conditioning applications where 3 phase power id required.

ADDITIONAL FEATURES to MOJAVE® Series:

- 158°F (70°C) Ambient Design
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- **Discount Symbol: DS-3HAC**

Belly Band Mount, Flat and Keyway on Shaft

HP	RPM/Spds	Voltage	Catalog Number	List	NEMA Frame	Amps	Shaft N	Shell XI	Total C	Shaft Dia.	Ship Wt.	Notes
3/4	1140	208-230/460	1817H	♦	56Z	2.8/1.4	6.0	9.3	15.3	0.625	31.5	
1	850	208-230/460	1828H	♦	56Z	4.8/2.4	6.0	.625	16.8	0.625	40	
	850	575	1829H	♦	56Z	1.7	6.0	10.8	16.8	0.625	41	
	1140	208-230/460	1818H	♦	56Z	4.2/2.1	6.0	.625	14.8	0.625	27.3	
1 1/2	850	208-230/460	1832H	♦	56Z	6.8/3.3	6.0	10.8	16.8	0.625	44.1	
	1140	208-230/460	1819H	♦	56Z	5.4/2.7	6.0	.625	15.8	0.625	35	
2	1140	208-230/460	8987H	♦	56Z	7.6/3.7	6.0	10.8	16.8	0.625	45	

Rigid Base Mount, Flat and Keyway on Shaft

HP	RPM/ Spds	Voltage	Catalog Number	List	NEMA Frame	Amps	Shaft N	Shell XI	Total C	Shaft Dia.	Ship Wt.	Notes
3/4	1140	208-230/460	1826H	♦	56Z	2.8/1.4	6.0	9.3	15.3	0.625	31.5	
1	850	208-230/460	1833H	♦	56Z	4.8/2.4	6.0	10.8	16.8	0.625	31.5	
	1140	208-230/460	1820H	♦	56Z	4.2/2.1	6.0	.625	14.8	0.625	27	
1 1/2	850	208-230/460	1831H	♦	56Z	6.8/3.3	6.0	10.8	16.8	0.625	44.1	
	1140	208-230/460	1821H	♦	56Z	5.4/2.7	6.0	.625	15.8	0.625	35	
2	1140	208-230/460	1822H	♦	56Z	7.6-7.4/3.7	6.0	.625	16.8	0.625	45	

♦ Refer to Motorboss for Pricing

Three Phase VariTough® Inverter Duty Commercial Condenser Fan, Open Air Over

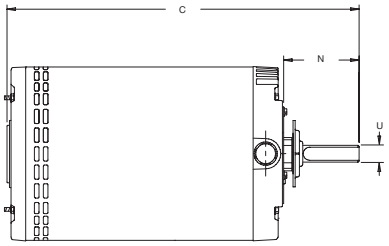


APPLICATIONS:

For use on condenser cooling fans in commercial air conditioning applications, where 3 phase power and variable frequency drives (VFD's) are required.

FEATURES:

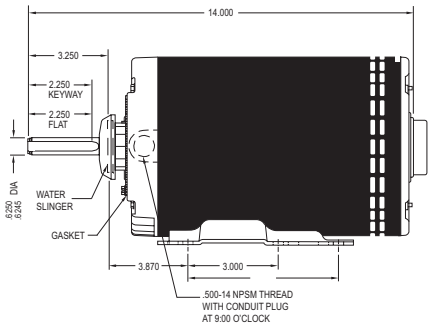
- Inverter Duty
- Designed to NEMA® MG1-Part 31
- Open Drip Proof, Shaft-Up Design
- 70°C Ambient
- Continuous Duty, Air Over
- Double Sealed Ball Bearings
- Includes Shaft Ground Ring
- Patented Voltage Change Device
- Lock Bearing System OSE
- Class F Insulation
- Reversible Rotation
- Thermostat Temperature Protection
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- **Discount Symbol: DS-3HAC**



Belly Band Mount

HP	RPM	Voltage	Catalog Number	List	NEMA Frame	Amps	Shaft N	Shaft U	Total C	Ship Wt. (lbs)
1	825	208-230/460	1830VG	♦	56YZ	5.2-5.2/2.6	3 .25	0.625	13.6	43
	850	208-230/460	1828VG	♦	56YZ	5.0-5.0/2.5	6 .00	0.625	16.8	32
	1140	208-230/460	1818VG	♦	56YZ	4.3-4.3/2.1	6 .00	0.625	15.8	32
1 1/2	850	208-230/460	1832VG	♦	56YZ	7.2-7.2/3.6	3 .50	0.625	15.8	63
	1140	208-230/460	1819VG	♦	56YZ	5.3-5.3/2.6	6 .00	0.625	16.3	43
2	1140	208-230/460	8987VG	♦	56YZ	7.8-7.8/3.9	6 .00	0.625	16.8	48





Rigid Base Mount

HP	RPM	Voltage	Catalog Number	List	NEMA Frame	Amps	Shaft N	Shaft U	Total C	Ship Wt. (lbs)
1/2	575	230/460	1139VG	♦	56YZ	3.1/1.6	3.6	0.625	14.4	44
	575	480	1297VG	♦	56	1.9	4.3	0.625	15.0	50
1	850	208-230/460	1833VG	♦	56YZ	5.0-5.0/2.5	6.0	0.625	16.8	42
	1140	208-230/460	1820VG	♦	56YZ	4.3-4.3/2.1	6.0	0.625	15.8	38
1-1/2	850	208-230/460	1831VG	♦	56YZ	7.2-7.2/3.6	3.5	0.625	15.8	63
	1140	208-230/460	1821VG	♦	56YZ	5.3-5.3/2.6	6.0	0.625	16.3	44
2	1140	208-230/460	1822VG	♦	56YZ	7.8-7.8/3.9	6.0	0.625	16.8	48

♦ Refer to Motorboss for Pricing



"VG" catalog numbers. Includes Shaft Grounding Ring.

Direct Drive Fan
Single & Double Shaft 5.0" Diameter, Open Air Over



APPLICATIONS:

Designed to meet manufacturer's requirements for direct drive fans and blowers.

FEATURES:

- Bearings Have All Angle Thrust System
- Continuous Duty, Air Over
- 24" Line Leads Unless Otherwise Noted
- Automatic Reset Thermal Overload Protector
- Connection Information Furnished in the Nameplate Data
- Shaded Pole Design Except Where Noted
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- **Discount Symbol: DS-3FMP (Stud or Hub Ring Mount)**
- **Discount Symbol: DS-3HAC (Resilient Base)**

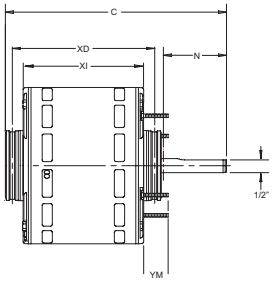


Figure A

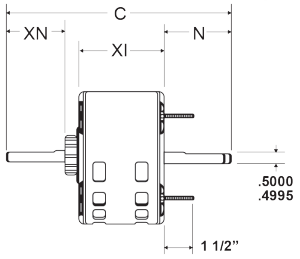


Figure B

5.0" Diameter, Stud or Hub Ring Mount (2.5") (Fig. A)

HP	RPM/ Spds.	Voltage	Catalog Number	List	Bearings	NEMA Frame	Amps	Shaft N	Base XD	Shell XI	Total C	Stud YM	Ship Wt.	Notes
1/20	1100/3	115	1175	$250	Ball	42	1.0	9.3	N/A	4.1	14.5	N/A	8	H37
1/16	850/3	115	1105	$188	SAB	42Y	1.1	2.3	N/A	4.1	6.3	N/A	9	84, H37
1/15	1050	115	1342	$126	Sleeve	42	2.6	2.8	N/A	3.8	6.6	0.6	10	84, H16, H19,LA
1/8	1050	115	1337	$129	Sleeve	42	5.5	5	5	4.5	10.4	0.9	13	84, H3, H16,LA
1/6	1050	115	1127P	$101	SAB	42	3.0	4.0	4.6	4.1	9.1	N/A	8.4	84, H3, H16, H38
	1050	115	2166P	$110	SAB	42	2.6	3.5	4.2	3.6	8.2	-	8.4	84, H16, H38
1/5	1050	115	1340	$133	Sleeve	42	7.1	2.2	5.2	4.7	7.9	0.9	14	84, H3, H16,LA
	1050/3	115	1338P	$151	SAB	42	3.2	4.9	5.5	5.0	10.9	0.8	8.6	84, H3, H16, H38

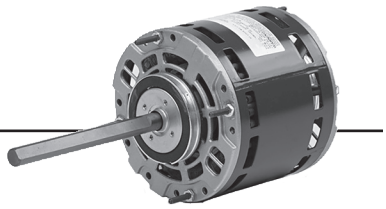
5.0" Diameter, Resilient Base, Double Shaft (Fig. B)

HP	RPM/ Spds.	Voltage	Catalog Number	List	Bearings	Rotation LE	Amps	Shaft N	Shaft XN	Shell XI	Total C	Ship Wt.	Notes
1/20	1075/4	115	1270	♦	Ball	CW	0.9	10.1	10.1	4.9	25.6	8.0	H38
1/15	1100/3	115	1090	♦	SAB	CW	0.8	9.9	10.8	3.8	25.4	13	
1/12	1375/3	115-120	1256	♦	Ball	CCW	1.4	8.25	8.25	4.9	21.9	11	
	1450/3	277	1960	♦	SAB	CCW	0.69	7.59	8.25	4.31	21.24	9	
1/10	1050/4	115	1182	♦	Ball	CW	1.7	10.5	10.0	4.1	24.6	7.0	H38, H34, H6
	1050/5	115	2832	♦	SAB	CW	2.5	10.0	10.0	4.3	24.3	14.4	H38, H34
	1050/5	115	2827P	♦	SAB	CW	2.5	10.0	10.0	4.1	25.2	9	H34, H38
1/8	1550/4	115	1180*	♦	Ball	CW	2.0	10.2	10.2	3.6	24.0	7.1	H37
	1090/3	115	1401	♦	Ball	CCW	1.7	6.9	6.7	4.1	17.7	8.0	84, H16
	1500/3	277	1964	♦	SAB	CCW	0.8	7.8	8.3	4.1	21.2	9	
1/6	1500/3	115	1192	♦	Ball	CW	2.3	10.5	10.5	4.1	25.1	10.0	
	1625/4	115	8525	♦	SAB	CCW	2.2	9.4	9.4	4.8	24.0	9.0	
	1450/3	115-120	1257	♦	Ball	CCW	2.5	8.25	8.25	5.7	21.9	11.0	
	1350/3	115-127	1210	♦	Ball	CCW	1.8	8.0	8.3	4.3	21.7	10.0	84, H16
1/5	1075	208-230	1124+	♦	SAB	CW	1.3	5.7	5.7	4.1	16.5	23.0	H37
	1625/3	208-230	1353	♦	SAB	CCW	1.2	9.9	9.9	4.1	23.8	10.0	84, H16
	1040/3	277-265	3360	♦	SAB	CW	1.3	3.0	7.0	3.8	13.8	13.0	84
1/4	1550/3	230	1221P	♦	SAB	CCW	1.6	8.0	8.0	4.3	20.9	8.4	H3, H21, H38
	1625/2	208-230	1279	♦	SAB	CCW	1.4	9.1	9.1	4.1	23.2	13.0	84, H16
1/2	1075/4	115	CA3414	♦	SAB	CCW	7.9	4.1	7.6	5.3	17.0	15	

♦ Refer to Motorboss for Pricing

Note 84: Non-reversible
Note H3: 20" Leads
Note H6: 3/8" Shaft
Note H16: Rotation CCW L.E.
Note H19: Conduit Box on Motor
Note H21: Fig. B Type, Includes Mounting Kit; Non-Reversible
Note H34: Non-Reversible; 54" Leads; Includes Resilient Base
Note H37: PSC, 5.0 MFD Capacitor Required
Note H38: PSC, Capacitor Included and Attached
* Not RB
+ No base Included
Note LA Limited Availability

Permanent Split Capacitor Direct Drive Fan Single Shaft 5.0" Diameter, Open Air Over

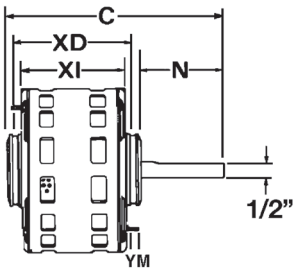


APPLICATIONS:

Designed to meet manufacturer's requirements for direct drive fan and blowers.

FEATURES:

- Reversible Unless Noted
- Sleeve Bearings have All Angle Thrust System
- Suitable for Use With 370V Capacitors
- Continuous Duty, Air Over
- 24" Line Leads Unless Otherwise Noted
- Automatic Reset Thermal Overload Protector
- Connection & Capacitor Information Furnished in Nameplate Data
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- **Discount Symbol: DS-3HAC**



Permanent Split Capacitor, 5.0" Diameter, Stud or Hub Ring Mount (2.5")

HP	RPM/ Spds.	Voltage	Catalog Number	List	Bearings	Cap. MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Stud YM	Ship Wt.	Notes
1/5	1075/3	203-230	8952	♦	SAB	5 .0	1 .6	4 .0	5 .3	4 .9	9 .9	N/A	11	
	1075/4	115	1268	♦	SAB	4 .0	3 .4	3 .5	4 .6	4 .1	8 .7	1	10	98
1/4	1050/3	115	1390	♦	SAB	7 .5	2 .8	4 .0	4 .9	4 .3	8 .9	1	12	H24
	1050/3	208-230	1391	♦	SAB	7 .5	1 .5	4 .0	4 .9	4 .3	8 .9	1	12	H24
1/3	1075/3	115	8955	♦	SAB	15 .0	3 .8	4 .0	5 .1	-	10 .2	.75	8	

♦ Refer to Motorboss for Pricing

Note 98: 50/60 Hz

Note H24: Hub Rings not included

Permanent Split Capacitor Packaged Terminal A/C – Heat Pump Open Air Over

APPLICATIONS:

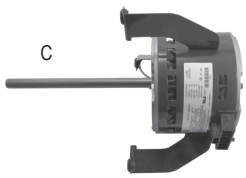
Designed to meet manufacturer's requirements for use in package terminal air conditioners or heat pump units.

FEATURES:

- Bearings Have All Angle Thrust System
- Suitable for Use With 370V Capacitors
- Continuous Duty, Air Over
- Automatic Reset Thermal Overload Protector
- **Discount Symbol: DS-3HAC**

A 

B 

C 

D 

Single Shaft, Direct Drive Blower - 5.0" Diameter

HP	RPM / Spds.	Voltage	Catalog Number	List	Cap MFD	Amps	Shaft Length	Total Length	Mount	Fig.	Rotation	Ship Wt.	Notes	OEM
1/15	1040/3	115	1377	♦	7.5	1.3	6.5	10.6	Flex	C	CCWLE	8		
	1075/3	265	1961	♦	4 .0	0.60	7.0	10.8	Flex	C	CCWLE	8		
1/30	1100/3	115	1374	♦	5.0	0.50	8.5	13.6	Resilient	D	CWLE	9	64	TR
	1100/3	115-127	4125	♦	4.0	0.53	8.0	13.2	Resilient	D	CCWLE	8	64	IE
	1600/3	115-127	1269	♦	3.0	0.51	6.5	11.4	Resilient	D	CCWLE	7		IE
	1100/3	115	1218	♦	7.5	0.73	7.0	10.8	Flex	C	CCWLE	7		IE
	1100/3	277	1259	♦	3.0	0.32	7.0	10.8	Flex	C	CCWLE	5		IE
1/20	1100/3	115	1258	♦	7.5	1.10	7.0	10.8	Flex	C	CCWLE	5		IE
	1100/3	115	1676	♦	5.0	0.55	8.9	13.1	Resilient	D	CWLE	10	64	TR
	1075/3	208-230	1378	♦	5.0	0.55	6.5	10.6	Flex	C	CCWLE	12		IE
	1075/3	277	4137	♦	4.0	0.55	6.5	9.9	3 Lugs	A	CCWLE	10		IE
	1100/3	277	1264	♦	3.0	0.42	7.0	10.8	Flex	C	CCWLE	7		IE
1/16	850/3	277	1678	♦	4.0	0.50	2.3	6.3	3 Lugs	B	CWLE	23	64	TR
1/15	1075/3	265	1365	♦	4.0	0.60	7.0	10.8	Flex	C	CCWLE	8		IE
1/12	1375/3	115-127	1211	♦	6.0/7.5	1.35	6.5	11.4	Resilient	D	CCWLE	7	64	IE
1/5	925/3	208-240	4129	♦	6.0	1.90	7.0	11.6	Flex	C	CCWLE	8	98	IE
1/4	970/3	115	4130	♦	12 .5	6 .00	7 .0	11 .8	Flex	C	CCWLE	8		IE

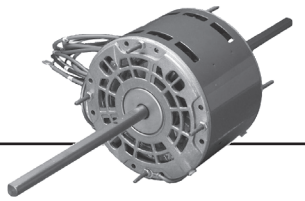
TR = Trane IE = IEC

♦ Refer to Motorboss for Pricing

U.S. MOTORS® Catalog Number	OEM Number	Industry Number	U.S. MOTORS® Catalog Number	OEM Number	Industry Number
1211	70556336	------	1678	X70500269-01/MOT2852	5KSP29DK1507S
1218	705563-01	------	1961	705563-09	SKCP29DK6018S
1258	705563-02		1962	700215-48	5KCP29MK6109S
1259	70556307	5KCP29BK6016AS	4125	700216-92	5KCP29BK5875S
1264	70556308	5KCP29FK6017S	4129	700215-42	SKCP29KK4878AS
1269	70556329	------	4130	700215-21	SKCP29MK6102S
1374	7/MOT1878	5KSP29DK1507S	4136	705563-14	5KCP29FK6023S
1676	X70500149-02	5KSP29DK1507S	4137	700215-45	SKCP29FK9775

Note 64: Capacitor Included
Note 98: 60/50 Hz

Permanent Split Capacitor Double Shaft Fan & Blower 5.6" Diameter, Two & Three Speed



APPLICATIONS:

Design to meet manufacturer's requirements for blowers utilizing a double-shaft motor.

FEATURES:

- Open Drip Proof, Air Over, Except Where Noted
- Automatic Reset Thermal Overload Protector
- CCW Rotation Lead End
- Bearings Have All Angle Thrust System
- Continuous Duty, Air Over
- Green Ground Lead
- Connection and Capacitor Information Furnished on Nameplate
- Designed for Use with 370V Capacitors
- Hub Rings are 2 1/4" Diameter, Furnished Detached, with Extra Metal Outer Rings for Adapting to 2 1/2" Diameter
- Mounting Holes in Shell for Mounting Capacitor
- When Supplied, Capacitor and Mounting Hardware are Supplied Detached
- 20" Leads
- Class B Insulation
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- **Discount Symbol: DS-3HAC**

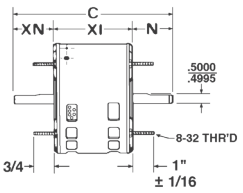


Figure A

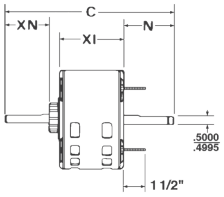


Figure B

Stud Mount, Without Capacitor and Mounting Kit, Three Speed, Economizer® High Efficiency (Fig.A)

HP	RPM/ Spds.	Voltage	Catalog Number	List	Bearings	Cap MFD	Amps	Shaft N	Shaft XN	Shell XI	Total C	Ship Wt.	Notes	OEM
1/4	1625/3	230	8725	♦	SAB	6.0	1.6	7.0	7.0	4.1	18.1	19		
1/8	1075/3	115	1186	♦	SAB	5.0	2.1	6.0	6.0	3.8	15.8	12	H45, LA	
	1075/3	208-230	1187	♦	SAB	5.0	0.9	6.0	6.0	3.8	15.8	11	H45	
1/3	1625/3	230	8726	♦	SAB	7.5	1.9	7.0	7.0	4.3	18.3	16		

Resilient Mounting With Capacitor and Mounting Kit, Two Speed (Fig. B)

HP	RPM/ Spds.	Voltage	Catalog Number	List	Bearings	Cap. MFD	Amps	Shaft N	Shaft XN	Shell XI	Total C	Wt.	Notes	OEM
1/4	1075/2	115	1244	♦	SAB	5.0	4.4	7.0	7.0	4.9	19.4	18	RB, LA	
	1625/2	115	1242	♦	SAB	3.0	3.6	7.0	7.0	4.4	18.9	19	RB	
	1625/2	230	1243	♦	SAB	3.0	1.8	7.0	7.0	4.4	18.9	13	RB	

Hub or Stud Mount (Except Where Noted), With Capacitor and Mounting Kit, 3 or 4 Speed (Fig. B)

HP	RPM/ Spds.	Voltage	Catalog Number	List	Bearings	Cap. MFD	Amps	Shaft N	Shaft XN	Shell XI	Total C	Wt.	Notes	OEM
1/8	775/3	115	1416	♦	SAB	5.0	1.65	11.552	10.796	4.6	28.0	17		
1/6	1075/3	115	1240	♦	SAB	5.0	2.9	7.0	7.0	4.1	18.7	18	RB	
	775/3	115	1415	♦	SAB	7.5	1.43	11.6	10.8	4.6	28.0	13	RB	
1/5	1075/3	230	1152	♦	SAB	5.0	1.4	5.1	4.5	3.8	13.4	13		GB
1/4	1625/4	208-230	1381	♦	SAB	5.0	1.2	9.5	9.5	4.3	23.5	12	RB	
1/3	1625/3	230	1887	♦	SAB	5.0	2.2	8.0	8.0	4.3	20.8	15		
	1075/3	230	1213	♦	SAB	5.0	2.5	8.0	8.0	4.3	20.8	17		
	1075/3	230	5108	♦	SAB	5.0	2.3	4.2	4.6	4.3	14.2	16		WP
	1075/3	230	1247	♦	SAB	5.0	2.5	9.17	9.17	5.125	24.0	18	RB	
1/2	1075/3	230	1824	♦	SAB	5.0	4.5	9.0	9.0	5.4	24.0	20		
3/4	1075 /3	208-230	1894	♦	SAB	7.5	5.0	7.3	7.8	5.6	20.6	17.9		

Hub or Stud Mount, Without Capacitor and Mounting Kit*, Three Speed (Fig. B)

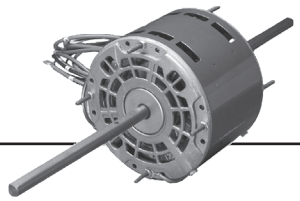
HP	RPM/ Spds.	Voltage	Catalog Number	List	Bearings	Cap MFD	Amps	Shaft N	Shaft XN	Shell XI	Total C	Ship Wt.	Notes	OEM
1/4	1075/3	230	3134	♦	SAB	5.0	2.0	8.0	8.0	4.6	20.1	12		
1/3	1075/3	230	3135	♦	SAB	5.0	2.5	8.0	8.0	4.6	21.1	14		
1/2	1075/3	230	3136	♦	SAB	5.0	4.5	8.0	8.0	5.4	22.0	18		

GB = Gibson WP = Whirlpool *To Make Resilient Mount, Order Kit Numbers 27 and 4. See Page 173.

♦ Refer to Motorboss for Pricing
Note H45: Totally Enclosed, Air Over
Note RB: Resilient Mounting
Note LA Limited Availability

Permanent Split Capacitor Double Shaft Fan & Blower
5.6" Diameter, Two & Three Speed

(continued)

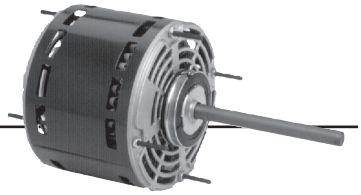


Hub or Stud Mount, With Adjustable Hub Length Adapter, Without Capacitor, Three Speed (Fig. B)

HP	RPM/ Spds.	Voltage	Catalog Number	List	Bearings	Cap. MFD	Amps	Shaft N	Shaft XN	Shell XI	Total C	Wt.	Notes	OEM
1/8	1075/3	115	NAL1006	♦	SAB	5.0	2.2	8.7	9.2	3.6	22.0	9		
	1075/3	208-230	NA1006	♦	SAB	5.0	0.9	8.5	9.0	3.8	22.0	9		
1/6	1075/3	115	NAL1016	♦	SAB	5.0	2.8	8.5	9.1	3.8	22.0	10		
	1075/3	208-230	NA1016	♦	SAB	5.0	1.0	8.5	9.0	3.8	22.0	9		
1/4	1625/3	115	NAL1024	♦	Ball	5.0	4.1	8.5	8.7	4.3	22.0	13		
	1625/3	208-230	NA1024	♦	SAB	5.0	2.1	8.5	8.7	4.3	22.0	12		
	1075/3	115	NAL1026	♦	Ball	5.0	4.3	8.5	8.7	4.3	22.0	11		
	1075/3	208-230	NA1026	♦	SAB	5.0	1.9	8.4	9.0	4.0	22.0	11		
1/3	1625/3	115	NAL1034	♦	Ball	5.0	5.7	8.5	8.4	4.6	22.0	13		
	1625/3	208-230	NA1034	♦	SAB	5.0	2.8	8.5	8.4	4.6	22.0	13		
	1075/3	115	NAL1036	♦	Ball	5.0	7.2	7.7	8.9	4.8	22.0	15		
	1075/3	208-230	NA1036	♦	SAB	5.0	2.6	7.6	9.0	4.8	22.0	14		
1/2	1625/3	115	NAL1054	♦	SAB	5.0	6.0	7.6	8.5	5.3	22.0	18		
	1625/3	208-230	NA1054	♦	Ball	5.0	4.3	7.6	8.5	5.3	22.0	17		
	1075/3	115	NAL1056	♦	BALL	10.0	7.3	8.1	8.0	5.3	22.0	16		
	1075/3	208-230	NA1056	♦	BALL	7.5	3.4	8.1	8.5	5.3	22.0	16		
3/4	1625/3	208-230	NA1074	♦	Ball	7.5	4.0	7.7	8.2	5.6	22.0	18		
	1075/3	115	NAL1076	♦	SAB	15.0	8.2	7.7	8.2	5.6	22.0	17		
	1075/3	208-230	NA1076	♦	SAB	7.5	4.8	8.3	7.8	5.3	22.0	17		

♦ Refer to Motorboss for Pricing

Permanent Split Capacitor Direct Drive Fan & Blower 5.6" Diameter, Open Air Over

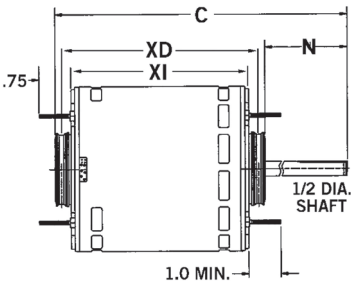


APPLICATIONS:

Residential and commercial direct drive fans and blowers.

FEATURES:

- Stud Extensions On Popular Models
- Designed for use with 370V Capacitors
- Class B Insulation
- 24" Leads
- Continuous Duty, Air Over
- Bearings Have All Angle Thrust System
- Reversible Rotation
- For Flex Mount, Order Catalog # 44; See Page 173
- Automatic Reset Thermal Overload Protector
- Connection and Capacitor Information Furnished in the Nameplate Data
- 2.5" Dia. Hub Rings Included
- All Angle Mount
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- **Discount Symbol: DS-3HAC**



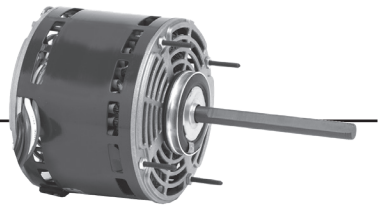
Hub Ring Mount (2.5") except as noted, Without Capacitor

HP	RPM/ Spds.	Voltage	Catalog Number	List	Cap. MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Ship Wt.	Notes	OEM
1/4	1075/3	115	1863	♦	7.5	3.5	5.0	5.4	4.9	10.4	10		
	1625/3	115	1690	♦	10.0	2.7	6.0	4.7	4.1	11.1	11.6		
	1075/3	208-230	1971	♦	7.5	1.5	5.0	5.4	4.9	10.4	9		
	1075/3	277	600	♦	4.0	1.6	5.0	5.2	4.6	11.7	13	69	
1/3	1075/3	115	1864	♦	7.5	5.0	5.0	5.6	5.1	10.7	12		
	1625/3	115	1692	♦	15.0	3.7	6.0	4.8	4.3	11.4	13		
	1075/3	208-230	1972	♦	7.5	1.9	5.0	5.6	5.1	10.7	11		
	1075/3	277	601	♦	4.0	2.2	6.0	5.5	5.0	11.9	14	69	
	1625/3	208-230	1693	♦	5.0	2.1	4.5	5.1	4.6	10.7	13		
1/3-1/8	825/2	208-230	5469	♦	7.5	2.4	4.5	-	5.3	9.8	17	72	
1/2	825/3	208-230	8064	♦	20.0	4.4	2.5	6.6	6.1	9.7	20	69	LE
	1075/3	115	1865	♦	10.0	6.5	5.0	6.4	5.9	11.4	16		
	1625/3	115	1694	♦	20.0	5.5	5.0	5.9	5.3	11.4	15.6	A	
	1075/3	208-230	1973	♦	10.0	2.9	5.0	6.2	5.7	11.7	17		
	1075/3	277	602	♦	6.0	3.4	6.0	5.7	5.2	12.2	15	69	
	1075/3	115	1323	♦	15	5.0	3.5	-	4.8	8.3	12	H11,LA	RH
	1625/3	208-230	1695	♦	7.5	3.0	5.0	5.9	5.3	11.4	17		
1/2-1/6	1075/4	115	5460	♦	10.0/7.5	7.3	5.5	5.9	5.3	11.3	20	72	
	1075/4	208-230	5461	♦	10/5	3.6	5.0	5.9	5.3	10.8	15	72	
3/4	1625/3	115	1696	♦	15.0	8.6	6.0	5.9	5.4	12.4	20		
	1625/3	208-230	1697	♦	10.0	4.4-4.2	6.0	5.9	5.4	12.4	19	A	
	1075/3	115	8904	♦	15.0	9.5	5.0	6.4	5.9	11.4	11	69	
	1075/3	208-230	8905	♦	15.0	4.0	5.0	6.6	6.1	11.6	17	69	
	1075/3	277	5847	♦	15.0	4.1	6.0	6.7	6.2	13.2	19		
	1075/4	115	3340	♦	7.5	12.1	6.0	5.8	5.3	12.4	18		CA
	1075/5	208-230	8065	♦	20	5.0	2.5	8.5	8.0	11.4	18		
	1075/4	115	6452	♦	15.0	11.2	5.0	-	5.8	10.8	18	69, H11	
	1075/2	208-230	5471	♦	20/10	4.1	5.0	6.6	6.1	12.1	16	72	
	1075/3	460	LX7930	♦	20	2.3	2.5	5.8	5.3	8.9	17	69	LE
3/4-1/5	1075/2	115	5470	♦	20/10	8.1	5.0	6.6	6.1	11.6	17	72	
1	1075/3	115	8906	♦	20.0	12.1	5.0	6.6	6.1	12.2	22	H17	
	1075/3	208-230	8907	♦	20.0	5.6	5.0	6.6	6.1	12.2	22	H17	
	1625/3	115	1699	♦	25.0	11.1	6.0	6.4	5.9	12.9	22	H7	
	1625/3	208-230	1700	♦	20.0	5.1	6.0	5.9	5.3	12.4	20		

CA = Carrier LE = Lennox RH=Rheem

♦ Refer to Motorboss for Pricing
Note A: Class A Insulation
Note H7: 36" Leads, 2.25" Dia. Hubs With 2.5" Dia. Kit Included.
Note H11: Band Mount
Note H17: Class B Insulation, Studs Shaft Side Only, Ball Bearings
Note LA Limited Availability
Note 69: No Stud Extension
Note 72: Includes 4 Holes In Shell For Rheem Mount

Permanent Split Capacitor Direct Drive Fan & Blower
5.6" Diameter, Open Air Over, High Efficiency

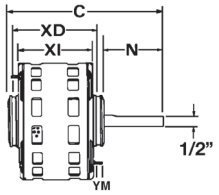


APPLICATIONS:

Designed to meet manufacturer's requirements for use on direct drive fans and blowers.

FEATURES:

- Reversible Rotation (Unless Otherwise Noted)
- Class B Insulation
- Bearings Have All Angle Thrust System
- Continuous Duty, Air Over
- Designed For Use With 370V Capacitors
- 36" Line Leads Unless Otherwise Noted
- High Efficiency Economizer® Motors
- Automatic Reset Thermal Overload Protector
- Connection & Capacitor Information Furnished in Nameplate Data
- When Furnished, The Capacitor And Its Mounting Hardware Is Supplied Detached
- 2.5" Diameter Hub Rings Included - See Notes
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- **Discount Symbol: DS-3HAC**



Stud or Hub Ring Mount (2.5"), Single Speed

HP	RPM/ Spds.	Voltage	Catalog Number	List	Bearings	Cap MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Stud YM	Ship Wt.	Notes	OEM
1/4	1100	208-230	3403	♦	SAB	5.0	1.8	1.5	N/A	3.96	5.96	N/A	10		
	1100	208-230	CA3408	♦	SAB	5.0	1.5	3.5	N/A	4.06	7.56	N/A	10		
1/3	825	208-230	6873	♦	Ball	5.0	2.7	4.5	6.4	5.8	11.4	N/A	23	H10	

Stud or Hub Ring Mount (2.5"), Two Speed

HP	RPM/ Spds.	Voltage	Catalog Number	List	Bearings	Cap MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Stud YM	Ship Wt.	Notes	OEM
1/4	1625/2	460	8944	♦	Ball	5.0	0.8	6.0	N/A	4.6	10.6	0.8	19		
	1075/2	115	3197	♦	SAB	5.0	3.9	5	5.4	4.9	10.4	0.8	12		
1/3	1075/2	460	8945	♦	Ball	5.0	1.3	6.0	5.3	4.8	11.9	0.8	18	64	
	1075/2	208-230	CA3410	♦	SAB	4.0	2.5	3.0	N/A	4.3	7.3	N/A	11		
1/2	825/2	230	3183	♦	SAB	10.0	3.9	4.0	N/A	5.6	10.7	0.8	23		
3/4	1075/2	460	8947	♦	Ball	20.0	2.2	6.0	6.1	5.6	12.7	0.8	19	64	

Stud or Hub Ring Mount (2.5"), Three Speed

HP	RPM/ Spds.	Voltage	Catalog Number	List	Bearings	Cap MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Stud YM	Ship Wt.	Notes	OEM
3/4	1075/3	208-230	8066	♦	SAB	10.0	4.5	2.5	5.6	5.1	8.7	N/A	18		
1	1100/3	460	2553	♦	SAB	25.0	3.3	3.5	-	6.8	10.3	N/A	23	62, H11	YK

Four Speed

HP	RPM/ Spds.	Voltage	Catalog Number	List	Bearings	Cap MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Stud YM	Ship Wt.	Notes	OEM
1/6	1075/4	115	5825	♦	SAB	4.0	2.2	6.0	4.6	4.1	11.1	1.5	12	H1	
	1075/4	208-230	5826	♦	SAB	5.0	1.1-1.0	6.0	4.6	4.1	11.1	1.5	18	H1	
1/4	1075/4	115	5830	♦	SAB	5.0	3.8	6.0	4.9	4.4	11.4	1.5	13	H1	
	1075/4	208-230	5831	♦	SAB	5.0	1.8-1.7	6.0	4.9	4.4	11.4	1.5	13	H1	
1/3	1075/4	115	5835	♦	SAB	7.5	4.6	6.0	5.4	4.9	11.9	1.5	16	H1	
	1075/4	208-230	5836	♦	SAB	6.0	2.3-2.2	6.0	5.2	4.7	11.7	1.5	14	H1	
1/2	1075/4	115	5840	♦	SAB	7.5	7.1	6.0	5.8	5.3	12.4	1.5	17	H1	
	1075/4	208-230	5841	♦	SAB	7.5	3.3-3.1	6.0	5.6	5.1	12.2	1.5	17	H1	
3/4	900/4	115	1125	♦	SAB	10.0	11.9	4.0		6.6	10.6		24	62, H11	IC
	1075/4	115	5845	♦	SAB	15.0	10.6	6.0	6.2	5.7	12.7	1.5	20	H1	
	1075/5	115	3275	♦	Ball	40.0	10.0	2.5	5.9	5.4	8.9		17	H2	LE
	1075/4	115	5463	♦	Ball	15.0	10.6	5.0	-	5.8	10.8		20	62, 72	RH
	1075/4	208-230	5846	♦	SAB	10.0	6.1-5.8	6.0	6.2	5.7	12.7	1.5	19	H1	
1	1100/4	208/230	4670	♦	SAB	20.0	6.0	5.0		6.3	11.3		22	62,84,H9,H11	IC

IC = ICP LE = Lennox RH = Rheem YK = York

Five Speed

HP	RPM/ Spds.	Voltage	Catalog Number	List	Cap. MFD	Amps	Shaft N	Shell XI	Total C	Shaft Diameter	Rotation	Ship Wt.	Notes	OEM
3/4	1075/5	208-230	LX7924	♦	20	4.6	2.5		8.9	0.500	CCWLE	17	-	

Shaded Pole 5.0" Diameter

HP	RPM/ Spds.	Voltage	Catalog Number	List	Cap. MFD	Amps	Shaft N	Shell XI	Total C	Shaft Diameter	Rotation	Ship Wt.	Notes	OEM
1/8	1000/5	115	1161	♦	5	2.3	5.1	4.3	9.4	0.500	CCWLE	8.3	-	UN

UN = Unilox®† ♦ Refer to Motorboss for Pricing

Note 62: Not ECONOMIZER®
Note 64: Includes Capacitor Unmounted
Note 72: Includes 4 Holes In Shell For Rheem Mount
Note 84: Non-Reversible
Note H1: 2.25" Dia. Hub Rings With Kit For 2.5" Included
Note H2: 2.5" Hub Rings
Note H9: 5/8" Shaft
Note H10: 50" Line Leads
Note H11: Band Mount

Permanent Split Capacitor Flex Mount
Direct Drive Fan & Blower 5.0" & 5.6" Diameter, Open Air Over

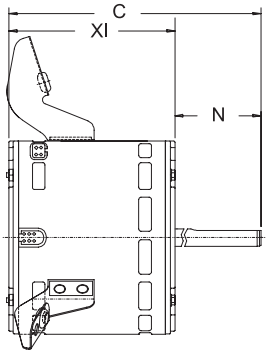


APPLICATIONS:

Designed to meet manufacturer's requirements for use on direct drive fan & blowers with flexible ear mounts.

FEATURES:

- Class B Insulation Unless Noted
- 5.0" Diameter Motors CWLE Rotation
- 5.6" Diameter Motors Reversible Rotation
- Bearings, All Angle Thrust System
- Continuous Duty, Air Over
- 24" Leads
- Automatic Reset Thermal Overload Protector
- PSC Motors Designed For 370V Capacitors
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- **Discount Symbol: DS-3HAC**



Permanent Split Capacitor 5.0" Diameter

HP	RPM/ Spd.	Voltage	Catalog Number	List	Cap MFD	Amps	Shaft N	Shell XI	Total C	Ship Wt.	Notes	OEM
1/5	1050/1	115	2867P	♦	5.0	3 .0	3 .8	4 .5	8 .3	8	H16, H22, CI	MI

Permanent Split Capacitor 5.6" Diameter

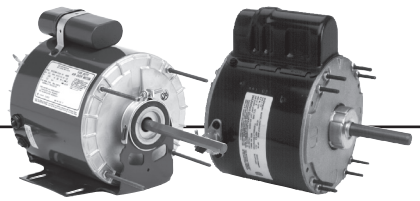
HP	RPM/ Spd.	Voltage	Catalog Number	List	Cap MFD	Amps	Shaft N	Shell XI	Total C	Ship Wt.	Notes	OEM
1/4	1075/3	115	3783	♦	5 .0	3 .8	5 .0	4 .3	9 .3	15		
	1075/3	208-230	3784	♦	5 .0	1 .7	5 .0	4 .3	9 .3	11	80	
1/3	825/3	230	8052	♦	15 .0	1 .9	2 .5	4 .8	7 .3	18	H16	LE
	1000/4	115	9377	♦	5 .0	6 .0	5 .3	4 .6	9 .8	18	H16	
	1075/3	115	3785	♦	7 .5	5 .0	5 .0	4 .6	9 .6	15		
	1075/3	208-230	3786	♦	5 .0	2 .4	5 .0	4 .3	9 .3	15		
1/2	1075/3	115	3787	♦	10 .0	7 .4	5 .0	5 .6	10 .7	18		
	1075/3	208-230	3788	♦	7 .5	3 .3	5 .0	5 .3	10 .3	20		

LE = Lennox MI = Miller

♦ Refer to Motorboss for Pricing

Note 80: Canadian Standard — Connected CCWLE (Reversible)
Note CI: Capacitor Included Mounted
Note H16: Rotation CCWLE
Note H22: Flex Mount is Removable

Permanent Split Capacitor Unit Heater Fan
5.6" & 6.3" Diameter, Totally Enclosed Air Over



APPLICATIONS:

Designed to meet manufacturer's requirements for use on unit heaters.

FEATURES:

- Continuous Duty, Air Over
- Reversible Motors Are Easily Reversed With Quick Connects
- 2-1/2" Diameter Hub Rings When Furnished
- Automatic Reset Thermal Overload Protector
- Green Ground Lead
- 48 Frame Has 8-32 NF-2A Thread; 56 Frame Has 10-32 NF-2A Thread
- 370V Capacitor Is Furnished
- Leads Are SJO Cord
- Extended Mounting Studs
- **Discount Symbol: DS-3HAC**

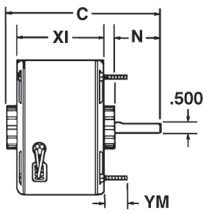


Figure A

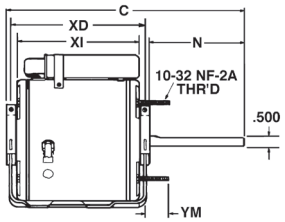


Figure B

Stud Mount, Single Speed (Fig. A)

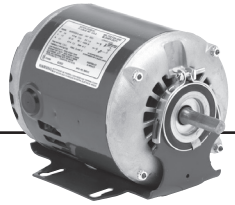
HP	RPM/ Spd.	Voltage	Catalog Number	List	Diameter (In.)	Cap. MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Stud YM	Ship Wt.	Notes
1/6	1075	115	9034	♦	5.6	4.0	2.6	4.5	5.4	4.6	9.6	0.8	11	
1/4	1075	115	9035	♦	5.6	5.0	3.6	4.5	5.4	4.6	9.6	0.8	16	
1/3	1075	115	9036	♦	5.6	4.0	5.1	4.5	5.4	4.6	9.6	0.8	15	

Resilient Base (Fig. B)

HP	RPM/ Spd.	Voltage	Catalog Number	List	Diameter (In.)	Cap. MFD	Amps	Shaft N	Base XD	Shell XI	Total C	Stud YM	Ship Wt.	Notes
1/6	1625	115	1385	♦	5.5	7.5	2.5	3.3	6.6	5.8	9.7	-	11.5	
	1075	115	1386	♦	5.5	7.5	2.6	3.3	6.6	5.8	9.7	-	12.3	
1/4	1075	115	1384	♦	5.5	5.0	3.6	3.3	6.6	5.8	9.7	-	15	
	1725	115	6326	♦	6.5	-	5.0	2.0	7.4	7.9	9.9	1.1	18	
1/3	1075	115	1388	♦	5.5	5.0	5.3	3.3	6.6	5.8	9.7	-	16.4	
1/2	1075/2	230	1810	♦	6.3	10.0	2.5	.9	7.5	6.3	12.8	2.5	27	

♦ Refer to Motorboss for Pricing

Split Phase Belted Fan and Blower
NEMA®† 48 Frame, Single and Two Speed

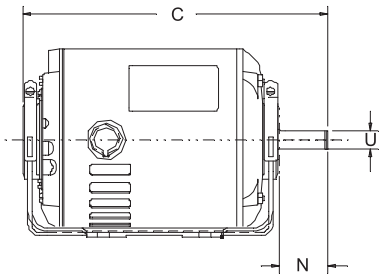


APPLICATIONS:

Designed to meet manufacturer's requirements for belted fans and blowers.

FEATURES:

- Resilient Base
- Class B Insulation Unless Otherwise Noted
- With Threaded Conduit Hole
- Reversible Rotation
- Automatic Reset Thermal Overload Protector
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- **Discount Symbol: DS-3HAC**



Single Speed, Open Drip Proof

HP	RPM	Voltage	Catalog Number	List	Bearings	NEMA Frame	Amps	Shaft N	Shaft U	Protector	Total C	SF	Ship Wt.	Notes
1/6	1725	115/208-2930	3615	♦	Ball	48	3.6/1.7-1.8	1.5	.500	Auto	8.4	1 .35	14	
1/4	1725	115	8000	♦	Ball	48	5 .3	1 .5	.500	Auto	8 .9	1 .35	13	77, 79
	1725	115	840CV	♦	Ball	48	5 .3	1 .6	.500	Auto	9 .4	1 .35	16	80,81,82
	1725	115/208-230	PD6002	♦	Ball	48	5.2/2.5-2.6	2 .25	.500	Auto	10 .2	1 .35	22	80
	1725	115/208-230	3618	♦	Ball	48Z	5.2/2.5-2.6	1.875	0.500	Auto	9.3	1.35	14	
1/3	1725	115	8100	♦	Ball	48	6 .4	1 .5	.500	Auto	9 .4	1 .35	15	77, 79
	1725	115	841CV	♦	Ball	48	6 .4	1 .6	.500	Auto	9 .9	1 .35	18	80,81,82
	1725	115/208-230	PD6004	♦	Ball	48	6.6/3.1-3.3	2 .25	.500	Auto	10 .7	1 .35	17	80
1/2	1725	115	8200	♦	Ball	48	8 .0	1 .5	.500	Auto	10 .0	1 .25	18	77, 79
	1725	115	1542C	♦	Ball	48	8 .0	1 .6	.500	Auto	9 .9	1 .25	21	80
	1725	115/208-230	PD6006	♦	Ball	48	8.6/4.2-4.3	1.9	0.500	Auto	10.7	1 .25	22	98,80,81

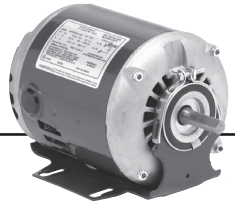
Two Speed, Open Drip Proof

HP	RPM	Voltage	Catalog Number	List	Bearings	NEMA Frame	Amps	Shaft N	Shaft U	Protector	Total C	SF	Ship Wt.	Notes
1/3-1/6	1725/1140	230	1789	♦	Ball	48	2 .9	1 .6	.500	Auto	10 .4	1 .35	22	A

♦ Refer to Motorboss for Pricing

Note 77: With Shaft Adapter For 5/8" Shaft.
Note 79: Combination Mounting Holes For NEMA®† 48 & 56 Frame Dimensions
Note 80: Canadian Standard — Connected CCWLE (Reversible)
Note 81: Canadian Standard — May Be Used With Single Pole Single Throw Switch, Not Stocked For US Distribution
Note 82: Open, Ventilated
Note 98: 50/60 Hz
Note A: Class A Insulation

Split Phase Belted Fan & Blower
Open Drip Proof, NEMA®† 56 Frame, Single & Two Speed

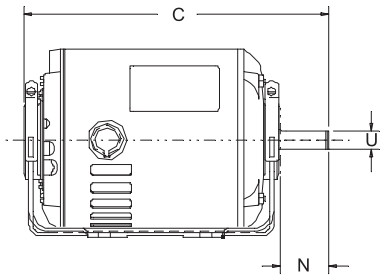


APPLICATIONS:

Designed to meet manufacturer's requirements for belted fans and blowers.

FEATURES:

- Resilient Base
- Class B Insulation Unless Otherwise Noted
- With Threaded Conduit Hole
- Reversible Rotation
- Automatic Reset Thermal Overload Protector
- **Discount Symbol: DS-3HAC**



Single Speed, NEMA®† 56 Frame

HP	RPM	Voltage	Catalog Number	List	Bearings	NEMA Frame	Amps	Shaft N"	"Shaft U"	Protec-tor	"Total C"	SF	Ship Wt.	Notes
1/2	1725	115/230	4114	♦	SAB	56	8 .0/4 .0	1 .9	0.625	Auto	9 .8	1 .25	22	
3/4	1725	115/230	4115	♦	SAB	56	11 .2/5 .6	1 .9	0.625	Auto	9 .8	1 .25	24	

Two Speed, NEMA®† 56 Frame

HP	RPM	Voltage	Catalog Number	List	Bearings	NEMA Frame	Amps	"Shaft N"	"Shaft U"	Protector	"Total C"	SF	Ship Wt.	Notes
1/3	1725/1140	115	5793C	♦	SAB	56Z	5.9/3.6	1.5	0.500	Auto	10.4	1.00	21	80
	1725 / 1140	115	1364	♦	Ball	56	6.1/3.5	1.9	0.625	NONE	10.4	1.35	20	
1/2	1725/1140	115	5794C	♦	SAB	56Z	8 .7/5 .1	1 .5	0.500	Auto	10 .4	1 .00	25	80
	1725/1140	115	4293	♦	SAB	56	9.2/6.0	1.9	0.625	Auto	10.8	1.25	26	A
3/4	1725/1140	115	5795C	♦	SAB	56	11 .5/6 .4	1 .9	0.625	Auto	11 .3	1 .00	27	80

♦ Refer to Motorboss for Pricing

Note 80: Canadian Standard — Connected CCWLE (Reversible)
Note A: Class A Insulation

Capacitor Start Belted Fan & Blower
Open Drip Proof, Resilient Base

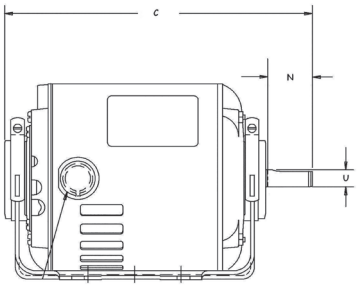


APPLICATIONS:

Designed to meet manufacturer's requirements for belted fans and blowers.

FEATURES:

- 40°C Ambient
- Class A Insulation
- Reversible Rotation
- Suitable For All Angle Operation (Within Blower Housing)
- Automatic Reset Thermal Overload Protector (unless noted)
- Threaded Conduit Hole, Except 299
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- **Discount Symbol: DS-3HAC**

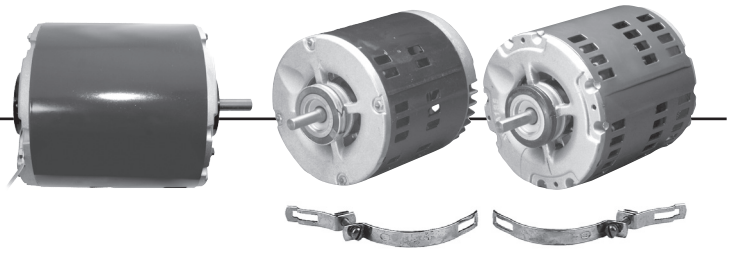


HP	RPM	Voltage	Catalog Number	List	Bearings	NEMA Frame	Amps	Shaft N	Shaft U	Protector	Total C	SF	Ship Wt.	Notes
1/4	1140	115/208-230	BD14CA3J9	♦	Ball	56	6.4/3.0-3.2	1.9	0 .625	Auto	11.31	1.35	32	
1/3	1725	115/230	180	♦	Ball	48	6.0/3.0	1.5	0.500	Auto	9.9	1.35	18	
1/2	3450	115/208-230	298	♦	Ball	48	8 .6/4 .3	1 .5	.500	Auto	9 .9	1 .25	16	
	1725	100-120/200-240	6309	♦	Ball	56	6 .3-5 .6/3 .1-2 .8	1.9	0.625	Auto	10.8	1.25	26	18,24,98
	1725	115/208-230	1790	♦	Ball	56	7 .4/3 .7	1 .9	.625	Auto	9 .3	1 .25	27	
3/4	3450	115/208-230	430	♦	Ball	48	9 .2/4 .6	1 .5	.500	Auto	10 .4	1 .25	19	
	1725	100-120/200-240	6313	♦	Ball	56	9 .2-8 .4/4 .6-4 .2	1.9	0.625	Auto	11.3	1.25	32	18,24,98
	1725	115/208-230	1893	♦	Ball	56	11.4/5.7	1.9	0.625	Auto	10.8	1.25	27	
1	3450	115/208-230	431	♦	Ball	48Z	11 .6/5 .8	1 .9	.625	Auto	11 .3	1 .25	13	
	1725	100-120/200-240	6317	♦	Ball	56	12 .3-10 .8/6 .2	1.9	0.625	Auto	12.3	1.15	38	18,24,98
	1725	115/230	3187C	♦	Ball	56	14 .0/7 .0	1 .9	.625	Auto	11 .8	1 .25	23	80
	1725	115/208-230	1769	♦	Ball	56	14.0/7.0	1.9	0.625	Auto	11.8	1.25	30	
1-1/2	3450	115/230	299	♦	Ball	56	17 .2/9 .0	1 .9	.625	Auto	11 .9	1 .15	33	
	1725	115/208-230	4242	♦	Ball	56	22.4/11.2	1.9	0.625	Auto	12.8	1.15	40	
2	3450	115/208-230	399	♦	Ball	56	18.4/10.1-9.2	1.9	0 .625	Auto	12.8	1.2	37	

♦ Refer to Motorboss for Pricing

Note 18: Incorporates Run Capacitor
Note 24: Automatic Reset Thermal Overload Protector
Note 80: Canadian Standard — Connected CCWLE (Reversible)
Note 98: 50/60 Hz Motor

Split Phase Evaporative Cooler
6.3" Diameter, Open Drip Proof

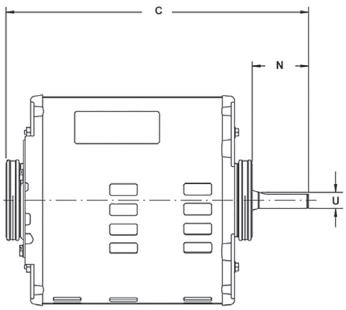


APPLICATIONS:

Designed to meet manufacturer's requirements for belt driven evaporative cooling units.

FEATURES:

- Ball Bearings
- Class B Insulation
- CW Rotation Shaft End
- Corrosion Resistant Rotor Core and Actuator Assembly
- Industry Standard Hub To Hub Dimension
- Automatic Reset Thermal Overload Protector
- **Discount Symbol: DS-3HAC**





NOTE: For Hub Mounting, Order Kit Number 51 and 52.

Single Speed

HP	RPM	Voltage	Catalog Number	List	NEMA Frame	Amps	Shaft N	Shaft U	Protector	Total C	SF	Ship Wt.	Notes
1/2	1725	115	6768	♦	56Z	8 .2	1 .6	0.500	Auto	9 .4	1	20	
	1725	230	6766	♦	56Z	4 .8	1 .6	0.500	Auto	9 .4	1	19	
3/4	1725	115	6769	♦	56Z	10 .7	1 .6	0.500	Auto	9 .4	1	17	F
	1725	230	6771	♦	56Z	5 .4	1 .6	0.500	Auto	9 .4	1	20	
1	1725	115/230	5149	♦	56	15.1/7.5	1.9	0.625	Auto	11.8	1	23	35, 60, H39
2	1725	115/230	7073	♦	56Z	19.0/8.5	2.3	0.875	Auto	13.6	1	46	35, 60, H39

Two Speed

HP	RPM	Voltage	Catalog Number	List	NEMA Frame	Amps	Shaft N	Shaft U	Protector	Total C	SF	Ship Wt.	Notes
1/3	1725/1140	115	6767	♦	56Z	5.5/3.9	1 .6	0.500	Auto	9 .4	1	14	F
1/2	1725/1140	115	6765	♦	56Z	7.5/4.0	1 .6	0.500	Auto	9 .4	1	16	F
	1725/1140	230	6795	♦	56Z	4.5	1 .6	0.500	Auto	9 .4	1	19	
3/4	1725/1140	115	6770	♦	56Z	10.2/4.7	1 .6	0.500	Auto	9 .4	1	19	F
	1725/1140	230	6796	♦	56Z	5.0/2.2	1 .6	0.500	Auto	9 .4	1	19	F
1	1725/1140	115	2574	♦	56	12.4/6.1	1 .9	0.625	Auto	11 .8	1	35	35, 60, H39
	1725/1140	230	2423	♦	56	7.0/3.7	1 .9	0.625	Auto	11 .8	1	30	35, 60, H39

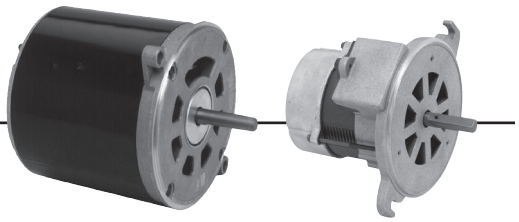
PSC Evaporative Cooler
5.6" Diameter, Open

HP	RPM	Voltage	Catalog Number	List	NEMA Frame	Amps	Shaft N	Shaft U	Protector	Total C	SF	Ship Wt.	Notes
1/8	1075/575	115-127	1129	♦	48Y	2.4	4	0.500	Auto	8.1	1.00	10.5	
1/4	1075	277	1424	♦	42Y	1.61	7.5	0.500	Auto	12.3	-	12.0	

♦ Refer to Motorboss for Pricing

Note 35: Includes resilient base
Note 60: Capacitor start
Note H39: Reversible rotation by easy reconnection
Note F: Class F Insulation

Split Phase and Capacitor Start Oil Burner Totally Enclosed When Mounted

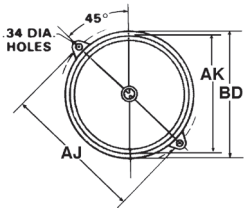


APPLICATIONS:

Designed to meet manufacturer's requirements for oil burners.

FEATURES:

- 40°C Ambient
- 20" Leads, Located At 3 O'clock Viewed From End Opposite Shaft
- 1.0 Service Factor
- Reversible Rotation, Except As Noted
- Manual Reset Thermal Overload Protector
- 56N Frame Has 2 Holes And Screws For Mounting Outlet Box
- 56N Flange Is Enclosed, 48M And 48N Flange Are Ventilated
- Bearings Have All Angle Thrust System
- **Discount Symbol: DS-3HAC**



NEMA®† Frame	Bolt Circle AJ	Flange Dia. AK	Outside Dia. BD
48M	6.75"	5.500"	6.25" max
48N, 56N	7.25"	6.275"	7.00" max

OEM Direct Replacements: Beckett®†, Carlin®†, Ducane®†, Wayne Home®†, (CWLE)

HP	RPM	Voltage	Catalog Number	List	Bearings	NEMA Frame	Amps	Shaft N	Shaft U	Protector	Total C	Ship Wt.	Notes
1/7	3450	115	3274	♦	Ball	48M	1.7	2.0	0.500	Auto	6.7	12	84, 86, H46, F
	3450	115	5866	♦	Ball	48M	2 .3	2 .0	.500	Man	7.2	8	78, 84
	2850	230/240	1011	♦	Ball	48M	1.3	2.0	0.500	Man	8.3	8	

Flange Mounted, Totally Enclosed, Non-Ventilated When Mounted, Without Base

HP	RPM	Voltage	Catalog Number	List	Bearings	NEMA Frame	Amps	Shaft N	Shaft U	Protector	Total C	Ship Wt.	Notes
1/8	3450	115	2097	♦	Ball	48N	2 .4	2 .0	.500	Man	7 .1	8	78
	1725	115	3196	♦	Ball	48N	2 .4	2 .0	.500	Man	7 .6	12	85, A
1/7	3450	115	3083	♦	Ball	48M	2 .6	2 .0	.500	Man	7 .3	10	F
	3450	115	3466C	♦	Ball	48N	2.9	1.9	0.500	Man	7.8	8	78
1/6	1725	115	3252	♦	Ball	48N	3 .1	2 .0	.500	Man	7 .6	14	78
1/4	3450	115	2302	♦	Ball	48N	3 .7	2 .0	.500	Man	8 .3	15	78
1/3	3450	115	2319	♦	Ball	48N	4 .8	2 .0	.500	Man	10 .5	15	78
	1725	115	3580	♦	Ball	56N	4 .8	2 .3	.500	Man	10 .5	25	77, 78

♦ Refer to Motorboss for Pricing

Note 77: 5/8" Shaft Adapter And Key Packed With Motor
Note 78: Class B Insulation System
Note 84: Non-Reversible
Note 85: Removable Face Plate
Note 86: PSC Motor, Capacitor Included
Note A: Class A Insulation
Note F: Class F Insulation
Note H46: 3.7" Body

Permanent Split Capacitor Ventilation Direct Drive Blower 5.0" & 5.6" Diameter, Open Air Over

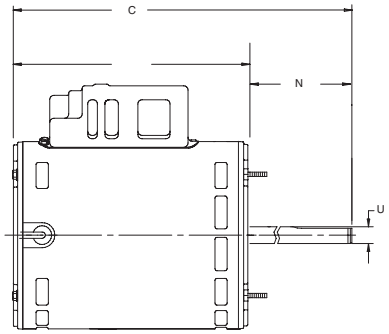


APPLICATIONS:

Designed to meet manufacturer's requirements for direct drive ventilation units.

FEATURES:

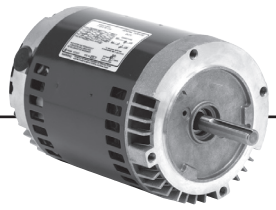
- Capacitor Included And Mounted On PSC Models
- Automatic Reset Thermal Overload Protector
- Continuous Duty
- Ball Bearings Unless Noted
- 40°C Ambient Rated
- 1.0 Service Factor
- **Discount Symbol: DS-3HAC**



HP	RPM/ Spd.	Voltage	Catalog Number	List	Amps	NEMA Frame	Motor Type	Shaft N	Shaft U	Rotation Lead End	Length XI	Total C	Ship Wt.	Notes
1/12	850	115	4740	♦	1.7	48YZ	PSC	3.25	.500	CW	5.81	9.06	10	
1/8	1600	115	1357	♦	1.7	48Y	PSC	3.00	.500	CCW REV	4.06	7.06	8	
1/6	1650	115	4742	♦	2.7	42YZ	PSC	3.25	.500	CW	5.81	9.06	9	
	1100	115	1146	♦	2.2	48YZ	PSC	3.00	.500	CCW REV	3.81	7.36	12	
1/4	1015	115	4153	♦	4.5	48	PSC	1.5	.500	CW	-	10.00	18	
1/3	1650	115	4745	♦	4.0	48YZ	PSC	3.25	.500	CW REV	6.06	9.31	14	
	1100	115	4746	♦	4.4	48YZ	PSC	3.25	.625	CW	5.81	9.06	17	
	1075	115	1145	♦	4.9	48YZ	PSC	3.00	.500	CCW REV	4.81	7.81	15	
1/2	1100	115/230	4749	♦	6.2/3.1	48YZ	PSC	3.30	.625	CW	6.60	9.90	18	
	1650	115/230	4748	♦	8.0/4.0	48YZ	PSC	3.25	.625	CW REV	6.31	9.56	22	
3/4	1100	115/230	4750	♦	10.0/5.0	48YZ	PSC	3.25	.625	CW	6.56	9.81	18	

♦ Refer to Motorboss for Pricing

Split Phase Ventilation Direct Drive Blower 5.6" and 6.3" Diameter, Open Drip Proof, Air Over

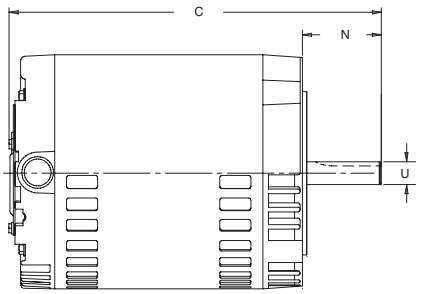


APPLICATIONS:

Design to meet manufacturer's requirements for direct drive ventilation units with a C-Face mount.

FEATURES:

- Continuous Duty
- Reversible Rotation
- Class B Insulation
- Threaded Conduit Hole
- Internal Conduit Box Opposite Shaft End
- Keyway On Shaft
- 6.3" Diameter Unless Noted
- **Discount Symbol: DS-3HAC**



Single Speed

HP	RPM	Voltage	Catalog Number	List	NEMA Frame	SF	Bearings	Amps	Protector	Shaft U	Shaft N	Total C	Ship Wt.	Notes
1/3	850	115	1208	♦	56CZ	1.35	Ball	9.0	Auto	0.625	2.4	12.7	37.6	

Two Speed

HP	RPM	Voltage	Catalog Number	List	NEMA Frame	SF	Bearings	Amps	Protector	Shaft U	Shaft N	Total C	Ship Wt.	Notes
1/3-1/9	1725/1140	115	1847	♦	56CZ	1.00	Ball	5.8/4.1	Auto	0.625	2.4	10.9	19	H8

♦ Refer to Motorboss for Pricing

Note H8: 5.6" Diameter

Three Phase Commercial Belt-Drive Blower Motor Open Dripproof, Air Over Not Required

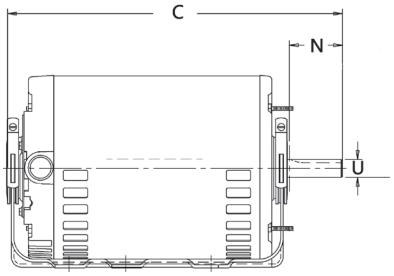


APPLICATIONS:

To meet manufacturer's requirements for belt-drive blowers in commercial air conditioning applications where 3 phase power is required.

FEATURES:

- Automatic Reset Thermal Overload Protector
- Reversible Rotation
- Continuous Duty
- Double Contact Sealed Ball Bearings
- Dual Voltage
- Class B Insulation
- 104°F (40°C) Ambient Rated
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- **Discount Symbol: DS-3HAC**



Rigid Base Mount

HP	RPM	Voltage	Catalog Number	List	Bearings	NEMA®† Frame	Amps	Shaft N	Shaft U	SF	Total C	Ship Wt. (lbs)	Notes	OEM
1	1725	208-230/460	1813P	♦	Ball	56H	3.1-3.0/1.5	1.9	0.625	1.15	12.4	30	VC	
1 1/2	1725	575	1197	♦	Ball	56HZ	2. 0	2.3	0.875	1.15	12.3	36		
	1725	208-230/460	1814P	♦	Ball	56H	4.8-4.8/2.4	1.9	0.625	1.15	12.8	34	VC	
	1725	200-230/460	7913VP	♦	Ball	56HZ	4.8/2.4	2.3	0.875	1.15	12.9	36		
2	1725	208-230/460	1815P	♦	Ball	56H	6.0-6.2/3.1	1.9	0.625	1.15	12.8	34	VC	
	1725	200-230/460	7914P	♦	Ball	56HZ	7.6-7.8/3.9	2.3	0.875	1.15	12.3	37		
	1725	575	1088	♦	Ball	56HZ	2.9	2.3	0.875	1.15	12.2	34		LE
3	1725	200-230/460	7915VP	♦	Ball	56HZ	9.0-9.2/4.6	2.3	0.875	1.15	12.3	45		
	1725	575	1089	♦	Ball	56HZ	3.4	2.3	0.875	1.15	13.2	48		

Resilient Mount

HP	RPM	Voltage	Catalog Number	List	Bearings	NEMA®† Frame	Amps	Shaft N	Shaft U	SF	Total C	Ship Wt. (lbs)	Notes	OEM
1/2	1725	208-230/460	8488	♦	Ball	56	2.0-1.9/0.95	1.9	0.625	1.25	10.3	20		
3/4	1725	208-230/460	8489	♦	Ball	56	2.9-2.9/1.5	1.9	0.625	1.25	10.8	22		
1	1725	208-230/460	8498	♦	Ball	56H	4.3/2.2	1.9	0.625	1.25	11.3	26		
1 1/2	1725	200-230/460	8490P	♦	Ball	56H	5.2-5.1/2.6	1.9	0.625	1.15	12.8	40		
2	1725	208-230/460	8493P	♦	Ball	56H	6.1-6.3/3.1	1.9	0.625	1.15	12.8	26		

LE = Lennox®†

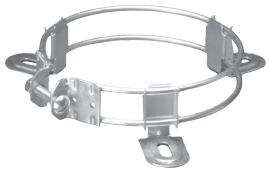
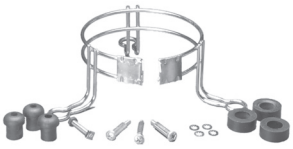
♦ Refer to Motorboss for Pricing

Note VC Quick Change Voltage Device

Accessories

Provide maximum flexibility in applying standard replacement motors to various applications.

Discount Symbol: DS-3HAC

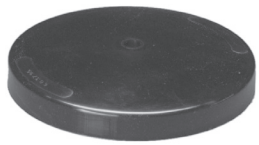
Kit Number	Description	Quantity Per Kit	List	Item
1	Shaft Conversion Set. Each set includes Qty. 1 shaft adapter and Qty. 1 key (converts 1/2" shaft to 5/8" shaft)	10 sets	♦	
9	Steel Banded Hub Ring Set -- 2-1/4" diameter (2 per set)	1 set	♦	
10	Steel Banded Hub Ring Set -- 2-1/2" diameter (2 per set)	1 set	♦	
15	Rubber Hub Ring -- 2-1/2" diameter (2 per set)	1 set	♦	
52	Base Clamp Mounting Hardware -- 2-1/2" diameter. Each set includes all hardware necessary to mount base to one motor	6 sets	♦	
13	Belly Band Mount adjustable ear mount for 5.0" and 5.6" diameter motor (expanding ring type)	1 mount	♦	
25	Belly Band Mount adjustable ear mount for 5.6" diameter motor (double wire type)	1 mount	♦	
55	One kit equals Qty. 1 carton of Qty. 144 studs & Qty. 288 nuts. For resale convenience we have packaged Qty. 12 studs and Qty. 24 nuts in a plastic bag, Qty. 12 bags to each carton. Price is for complete carton. 8-1/2" long 8x32 thread stator studs and nuts.	12 bags, with 12 studs and 24 nuts in each bag	♦	
16	Direct Drive Blower Mounting Ring Set - double wire type. Each set includes motor support ring & Qty. 3 rubber mounting bushings with sleeves and mounting screws. For 5.0" diameter motor -- 9-9/32" blower mount diameter.	1 set	♦	
17	For 5.6" diameter motor through 10" blower mount diameter.	1 set	♦	
21	Shaft grounding ring for 5/8" shaft, 56 frame VariTough® motors plus new bearing cap and rain shield to install after the grounding ring is put in place.	1 set	♦	

♦ Refer to Motorboss for Pricing

Accessories

Provide maximum flexibility in applying standard replacement motors to various applications.

Discount Symbol: DS-3HAC

Kit Number	Description	Quantity Per Kit	List	Item
43	Direct Drive Belly Band Blower Mounting Ring Set -- E-Band - Torsion Type. Each set includes motor support ring with welded ears. Mounting ears have dual mounting holes to fit either blower mount diameter. For 5.0" diameter motor -- 9" or 10" blower mount diameter.	1 mount	♦	
44	For 5.6" diameter motor through 9" or 10" blower mount diameter.	1 mount	♦	
27	Hub Length Adapter Set - Each set includes Qty. 2 2-1/4" resilient mounting rings and Qty. 4 metal outer rings to convert to 2-1/2" rings (Fits 5.0" and 5-5/8" diameter motors). Also includes 10-32 studs for adaptation to 21 Frame and 8-32 studs for 5.0" and 5.6" Frame. screws for extended studs for 5.0" and 5.6" Frame.	1 set	♦	
26	Drip Shield for Condenser Fan Motors - 6-3/8" diameter with 1/2" diameter shaft hole for NEMA®† 42, 48 or 56Z frame motors.	1 shield	♦	
28	Drip Shield for Condenser Fan Motors - 6-3/8" diameter with 5/8" diameter shaft hole for NEMA®† 42, 48 or 56Z frame motors.	1 shield	♦	

♦ Refer to Motorboss for Pricing

Resilient Base Cradle Kits for PSC & Shaded Pole Motors

Refer to XD dimension on catalog pages to determine base length required. Each kit includes one cradle base, 2 base clamp assemblies and 2 hub rings, unless otherwise noted.



Kit Number	Shaft Height	Hub to Hub (XD Length)	Hub Ring Diameter	List
3	3”	4-1/8”	2-1/2”	♦
30	3”	4-3/8”	2-1/2”	♦
4	3”	4-7/8”	2-1/2”	♦
19*	3”	5-1/8”	2-1/2”	♦
32	3”	5-3/8”	2-1/2”	♦
38	3”	6-1/2”	2-1/2”	♦
5	3-1/2”	4-1/8”	2-1/2”	♦
31	3-1/2”	4-3/8”	2-1/2”	♦
6	3-1/2”	4-7/8”	2-1/2”	♦
20	3-1/2”	5-1/8”	2-1/2”	♦
34	3-1/2”	5-3/8”	2-1/2”	♦
37	3-1/2”	6-1/2”	2-1/2”	♦
12	3-1/2”	7”	2-1/2”	♦
51	3-1/2”	7-1/2”	2-1/2”	♦

♦ Refer to Motorboss for Pricing

* No Hub Rings

Washdown Motors

Horsepower:
- Stainless Steel: 1/2 HP to 10 HP
- Paint Free: 1/2 HP to 10 HP
- Painted: 1/4 HP to 15 HP

Phase: Single and Three Phase

RPM: 1200, 1800 or 3600

Voltage:
- Single Phase: 115/208-230 volts
- Three Phase: 208/230 and 208-230/460 volts

Efficiency: Premium Efficient & Energy Efficient options

Mounting Options: Rigid Base, C-Face Footed, C-Face Footless or Yoke Mount

Enclosure:
- Totally Enclosed Fan Cooled
- Totally Enclosed Non-Ventilated

Construction:
- All: Internal corrosion protection
- Stainless Steel: 300 Series stainless steel on all external components
- Paint Free: Stainless steel frame, aluminum end shields
- Painted: Steel frame with aluminum or cast iron end shields with white epoxy paint

Shaft: 303 Stainless Steel

Seals: VBXX®† bearing isolators by Inpro/Seal®† on all stainless steel and paint free motors. Lip seals and rotating shaft seals on painted motors.

Drains: Stainless steel T-type drains on paint-free, stainless steel, and 140 & below frame size painted motors

Nameplate: Laser etched on stainless frames. Stainless steel on painted frames



Painted Washdown Three Phase, Totally Enclosed



APPLICATIONS:

Suitable for food processors, canners, meat packers, bakeries, dairies, drug and cosmetic manufacturers for sanitary, easily cleaned motors.

FEATURES:

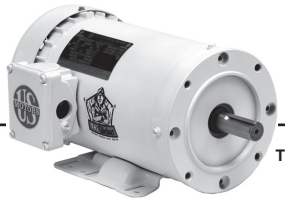
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- USDA®† Approved Non-Toxic White Epoxy Paint
- Moisture Resistant Gasketed Conduit Box With NPT Lead Holes
- V-Ring Rotating Shaft Seals
- Full 50 & 60 Hertz Operating Data On Nameplate (180-210 Frame)
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave
- Removable Drain Plugs (180 & 210 Frames)
- Double Contact Sealed Ball Bearings
- Internal Corrosion Protection On Rotor, Stator, Winding & Frame
- Double Dip & Bake On Winding
- 303 Stainless Steel Shaft, F1 Assembly Position
- Stainless Steel Nameplate
- Totally Enclosed Fan Cooled (TEFC) Except Where Noted
- Multiple Stainless Steel T-Type Drains (56 & 140 Frame)
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1/3	1800	208-230/460	56	WD13S2A	$440	DS-3WD	1.35	10.8	26	-	1.9-1.8/0.9	NNP,28
1/2	1800	208-230/460	56	WD12S2A	$572	DS-3WD	1.15	10.8	26	80.0	1.9-1.8/0.9	NNP,28
3/4	1800	208-230/460	56	WD34S2A	$600	DS-3WD	1.15	11.8	27	82.5	2.6-2.4/1.2	NNP,28
	1200	208-230/460	143T	WD34S3A14	$744	DS-3WD	1.15	13.8	32	78.0	3.1-3.2/1.6	NNP
1	1800	208-230/460	143T	WD1P2A14	$959	DS-3WD	1.15	14.3	35	85.5	3.3-3.3/1.6	
	1800	208-230/460	56	WD1P2A	$769	DS-3WD	1.15	12.0	26	85.5	3.4-3.3/1.8	
	1200	208-230/460	145T	WD1P3A	$945	DS-3WD	1.15	15.8	48	82.5	3.8-3.8/1.9	
1 1/2	1800	208-230/460	145T	WD32P2A14	$1,069	DS-3WD	1.15	14.8	36	86.5	4.5-4.5/2.2 & 4.5/2.2	
2	1800	208-230/460	145T	WD2P2A14	$1,300	DS-3WD	1.00	14.8	26	86.5	6.2-6.0/3.0	
3	1800	208-230/460	182T	WD3P2D	$1,500	DS-3WD	1.15	15.8	55	89.5	8.2-7.6/3.8	03
5	1800	208-230/460	184T	WD5P2D	$1,564	DS-3WD	1.15	15.8	76	89.5	13.5-12.5/6.2	03
7 1/2	1800	208-230/460	213T	WD7P2D	$2,213	DS-3WD	1.15	18.3	117	91.7	20-18.2/9.1	03
10	1800	208-230/460	215T	WD10P2D	$2,394	DS-3WD	1.15	19.3	125	91.7	26.5-23.9/11.9	03

Note 03 60/50 Hertz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate
Note 28 TENV Enclosure
Note NNP Non-NEMA®† Premium

Painted Washdown Three Phase, Totally Enclosed, C-Face


The Slicker™

APPLICATIONS:

Suitable for food processors, canners, meat packers, bakeries, dairies, drug and cosmetic manufacturers for sanitary, easily cleaned motors.

FEATURES:

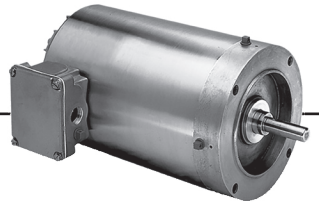
- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- USDA® Approved Non-Toxic White Epoxy Paint
- Moisture Resistant Gasketed Conduit Box With NPT Lead Holes
- V-Ring Rotating Shaft Seals
- Full 50 & 60 Hertz Operating Data On Nameplate (180-210 Frame)
- 40°C Ambient, NEMA® Design B Performance On 60 Hertz Sine Wave Power
- Removable Drain Plugs (180 & 210 Frames)
- Double Contact Sealed Ball Bearings
- Internal Corrosion Protection On Rotor, Stator, Winding & Frame
- Double Dip & Bake On Winding
- 303 Stainless Steel Shaft, F1 Assembly Position
- Stainless Steel Nameplate
- Totally Enclosed Fan Cooled (TEFC) Except Where Noted
- Multiple Stainless Steel T-Type Drains (56 & 140 Frame)
- Refer to Page vii for Suitability of IHP Motors on Variable Frequency Drives
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

C-Face Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1/2	3600	208-230/460	56C	WD12S1AC	$521	DS-3WD	1.15	11.8	32	75.5	1.8-1.6/0.8	28, NNP
	1800	208-230/460	56C	WD12S2AC	$600	DS-3WD	1.15	11.3	26	82.5	1.9-1.8 / 0.9	28, NNP
	1200	208-230/460	56C	WD12S3AC	$768	DS-3WD	1.15	11.3	32	82.5	2.2-2.2/1.1	28, NNP
3/4	3600	208-230/460	56C	WD34S1AC	$588	DS-3WD	1.15	11.8	32	75.5	2.4-2.2 / 1.1	28, NNP
	1800	208-230/460	56C	WD34S2AC	$695	DS-3WD	1.15	12.3	26	82.1	2.6-2.4/1.2	28, NNP
	1200	208-230/460	56C	WD34S3AC	$938	DS-3WD	1.00	12.3	22	82.0	3.2/1.6	28, NNP,LA
1	3600	208-230/460	56C	WD1P1AC	$695	DS-3WD	1.15	12.3	32	77.0	3.4-3.2 / 1.6	28
	1800	208-230/460	143TC	WD1P2A14C	$926	DS-3WD	1.15	12.8	26	85.5	3.4-3.3/1.8	
	1800	208-230/460	56C	WD1P2AC	$870	DS-3WD	1.15	12.3	26	85.5	3.4-3.3/1.8	
	1200	208-230/460	56C	WD1S3AC	$928	DS-3WD	1.15	12.8	32	82.5	3.8-3.8/1.8	28, NNP
1 1/2	3600	208-230/460	56C	WD32P1AC	$761	DS-3WD	1.15	12.8	32	84.0	4.3-4.1/2.1	28
	1800	208-230/460	145TC	WD32P2A14C	$815	DS-3WD	1.00	14.3	26	86.5	4.6-4.4/2.2	28
2	3600	208-230/460	145TC	WD2P1A14C	$780	DS-3WD	1.15	13.9	35	85.5	5.4-4.9/2.5	
	1800	208-230/460	56HC	WD2P2AHC	$991	DS-3WD	1.00	15.0	46	86.5	6.2-6.0/3.0	
	1800	208-230/460	145TC	WD2P2A14C	$1,206	DS-3WD	1.00	14.9	48	86.5	6.2-6.0/3.0	
	1200	208-230/460	184TC	WD2P3DC	$1,950	DS-3WD	1.15	16.8	80	88.5	6.4-6.2/3.1	
3	3600	208-230/460	145TC	WD3P1A14C	$1,229	DS-3WD	1.15	13.9	76	86.5	8.1-7.2/3.6	14
	3600	208-230/460	182TC	WD3P1DC	$1,477	DS-3WD	1.15	18.8	73	88.5	8.1-7.4/3.7	
	1800	208-230/460	182TC	WD3P2DC	$1,477	DS-3WD	1.15	16.8	58	89.5	8.2-7.6/3.8	03
	1200	208-230/460	213TC	WD3P3DC	$2,250	DS-3WD	1.15	19.4	117	90.2	9-8.3/4.2	
5	3600	208-230/460	184TC	WD5P1DC	$1,674	DS-3WD	1.15	18.8	85	89.5	13.3-11.8/5.9	
	1800	208-230/460	184TC	WD5P2DC	$1,581	DS-3WD	1.15	16.8	87	89.5	13.5-12.5/6.2	03
	1200	208-230/460	215TC	WD5P3DC	$2,346	DS-3WD	1.15	20.4	128	89.5	15-14.1/7	
7 1/2	3600	208-230/460	184TC	WD7P1AFC	$2,041	DS-3WD	1.15	18.8	103	90.2	19.7-17.3/8.7	14
	3600	208-230/460	213TC	WD7P1DC	$2,041	DS-3WD	1.15	21.4	137	91.0	19.7-17.4/8.7	
	1800	208-230/460	213TC	WD7P2DC	$1,961	DS-3WD	1.15	19.4	140	91.7	20-18.2/9.1	03
10	3600	208-230/460	215TC	WD10P1DC	$2,283	DS-3WD	1.15	21.4	145	91.0	26.1-23.1/11.6	
	1800	208-230/460	215TC	WD10P2DC	$2,038	DS-3WD	1.15	20.4	128	91.7	26.5-23.9/11.9	03
15	3600	208-230/460	215TC	WD15P1DC	$3,302	DS-3WD	1.15	21.4	154	93.0	38-35/17.4	14

Note 03 60/50 Hertz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate
Note 14 NEMA® Design A
Note 28 TENV Enclosure
Note LA Limited Availability
Note NNP Non-NEMA® Premium

Paint Free Washdown Three Phase, Totally Enclosed, C-Face



APPLICATIONS:

Suitable for food processors, canners, meat packers, bakeries, dairies, drug and cosmetic manufacturers for sanitary, easily cleaned motors.

FEATURES:

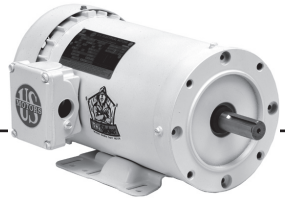
- INVERTER GRADE® INSULATION SYSTEM (MEETS NEMA®† MG-1 PART 31)
- VBXX®† Bearing Isolators By Inpro/Seal®† On Drive End (Both Ends On 180-210 Frame)
- 303 Stainless Steel Shaft
- Multiple Stainless Steel T-type drains
- Double Contact Sealed Ball Bearings
- Laser-Etched Oversized Nameplate
- Totally Enclosed Fan Cooled (TEFC) Except Where Noted
- RTV-Sealed Lead Exit
- Moisture Resistant Gasketed Conduit Box With NPT Lead Holes
- Stainless Steel Frame
- Easy to Read Connection Leads
- Rust Inhibitor on Rotor
- 40°C Ambient, NEMA®† Design B
- Refer to Page vii for Suitability of IHP Motors on Variable Frequency Drives
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

Footless

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/2	1800	208-230/460	56C	WDP12S2ACR	$766	DS-3WD	1.15	12.8	31	2.0-1.9/0.9	28,NNP
	1200	208-230/460	56C	WDP12S3DCR	$784	DS-3WD	1.15	12.8	32	2.2-2.2/1.1	28,NNP
3/4	1800	208-230/460	56C	WDP34S2ACR	$887	DS-3WD	1.15	12.8	51	2.8-2.7/1.3	28,NNP
1	1800	208-230/460	145TC	WDP1P2ACR	$1,160	DS-3WD	1.15	14.3	43	3.5-3.4/1.7	28
	1800	208-230/460	56C	WDP1P2DFCR	$1,102	DS-3WD	1.15	14.3	30	3.5-3.4/1.7	
	1200	208-230/460	56C	WDP1S3DCR	$964	DS-3WD	1.15	13.8	32	4.7-4.8/2.4	28,NNP,LA
1 1/2	1800	208-230/460	56C	WDP32P2DFCR	$1,152	DS-3WD	1.00	14.3	50	4.9-4.8/2.4	
2	1800	208-230/460	145TC	WDP2P2ACR	$1,490	DS-3WD	1.00	14.9	51	6.2-6.0/3.0	

Note 28 TENV Enclosure
Note LA Limited Availability
Note NNP Non-NEMA®† Premium

Painted Washdown Single Phase, Totally Enclosed, C-Face



The Slicker™

APPLICATIONS:

Suitable for food processors, canners, meat packers, bakeries, dairies, drug and cosmetic manufacturers for sanitary, easily cleaned motors.

FEATURES:

- Class F Insulation
- USDA® Approved Non-Toxic White Epoxy Paint
- V-Ring Rotating Lip Seal On Shaft End
- F1 Assembly Position
- Double Contact Sealed Ball Bearings
- Reversible Rotation
- Internal Corrosion Protection On Rotor, Stator, Winding & Frame
- Stationary Grease Seal On Both Ends
- 303 Stainless Steel Shaft
- Moisture Resistant Gasketed Conduit Box With NPT Lead Holes
- Totally Enclosed Fan Cooled (TEFC) Except Where Noted
- Multiple Stainless Steel T-type Drains
- Automatic Reset Thermal Overload Protector on Yoke Mount Fan Motors
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/2	3600	115/208-230	56C	WD12C1JC	$523	DS-3WD	1.15	11.8	32	7.3/3.9-3.7	28
	1800	115/208-230	56C	WD12C2JC	$537	DS-3WD	1.15	12.8	26	9.5/4.6-4.8	25
3/4	3600	115/208-230	56C	WD34C1JC	$538	DS-3WD	1.15	12.3	30	9.7/5.3-4.9	28
	1800	115/208-230	56C	WD34C2JC	$611	DS-3WD	1.15	13.3	32	12.8/6.4-6.5	
1	3600	115/208-230	56C	WD1C1JC	$583	DS-3WD	1.15	13.3	32	13.6/6.9-6.8	
	1800	115/208-230	56HC	WD1C2JHC	$702	DS-3WD	1.15	13.8	28	15.4/7.8-7.6	
1 1/2	3600	115/208-230	56HC	WD32C1JHC	$768	DS-3WD	1.15	13.8	32	14.6/8.1-7.4	CSCR,25
	1800	115/208-230	56HC	WD32C2JHC	$896	DS-3WD	1.15	15.3	32	14.4/8.0-7.2	CSCR
2	1800	115/230	56HC	WD2C2PHC	$1,052	DS-3WD	1.15	15.3	48	19.6/9.8	CSCR,25

Footless

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/2	3600	115/208-230	56C	WD12C1JCR	$576	DS-3WD	1.15	11.8	32	7.3/3.9-3.7	28
	1800	115/208-230	56C	WD12C2JCR	$663	DS-3WD	1.15	12.8	32	8.8/4.3-4.4	28
3/4	1800	115/208-230	56C	WD34C2JCR	$748	DS-3WD	1.15	13.8	41	7.8/4.3-3.9	CSCR,28
1	1800	115/208-230	56C	WD1C2JCR	$848	DS-3WD	1.00	14.3	32	10.3/5.5-5.2	CSCR
2	1800	115/230	56C	WD2C2JCR	$1,059	DS-3WD	1.15	15.3	48	19.6/9.8	CSCR

Permanent Split Capacitor, Yoke Mount, Non-Oscillating Totally Enclosed Air Over (TEAO) Fan Motors

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/4	1800	115/230	56YZ	WD14AA2PZ7	$426	DS-3WD	1.00	10.9	19	3.5/1.7	24
1/3	1800	115/230	56YZ	WD13AA2PZ7	$448	DS-3WD	1.00	10.9	16	4.9/2.5	24
1/2	1800	115/230	56YZ	WD12AA2PZ7	$481	DS-3WD	1.00	11.9	32	5.9/2.9	24

Note 24 Automatic Reset Thermal Protector Overload
Note 25 Non-protected
Note 28 TENV Enclosure
Note CSCR Capacitor Start /Capacitor Run

Agriculture Motors

Horsepower: 1/4 – 30 HP

Phase: Single and Three Phase

RPM: 3600 or 1800 RPM

Voltage:
- Single Phase, 115, 115/230, or 230 Volts, 60 Hz
- Three Phase, 230/460 Volts, 60 Hz

Enclosure: Totally Enclosed, Air Over (TEAO) & Totally Enclosed, Fan Cooled (TEFC) Options

Construction: Rolled steel or aluminum frame

Conduit Box: Varies based on motor size and end use design

Bearings: Ball bearings

Grease: Mobil 28®† Low Temperature Grease Standard in High Torque and Ultra High Torque Agri Duty motors

Ambient: 40°C Rated

Thermal Overload:
- High Torque and Ultra High Torque available with manual reset overload protectors
- Motors available with automatic reset overload protectors or thermostats



Special Application Agriculture Single Phase, Totally Enclosed Fan Cooled (TEFC), Ultra High Torque, Capacitor Start



APPLICATIONS:

For powering agitators, augers, compressors, conveyors, feeders and hay hoists.
High torque motors are used on barn cleaners, manure pumps and silo unloaders.

FEATURES:

- Class F Insulation
- 40°C Ambient, Continuous Duty
- Typical Starting Torque 300% Of Full Load
- F1 Assembly
- Extruded Aluminum Frame (180-210 Frame)
- Manual Reset Thermal Overload Protector
- Plastic Fan & Fan Cover
- Double Shielded Bearings w/Low-Temp Grease (Regreasable Shaft End)
- Removable Condensation Drains For Vertical Mounting
- Fully Gasketed Steel Conduit Box
- Die Cast Aluminum Brackets With Steel Bearing Inserts
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1 1/2	1800	115/230	143T	FDU32CM2P14	$521	DS-3SP	1.15	14.8	47	19.2/10.1	23
2	1800	115/230	182TZ	FDU2CM2P18Z	$823	DS-3SP	1.15	16.8	66	25.6/12.8	23
3	1800	230	184T	FDU3CM2K18	$1,101	DS-3SP	1.15	18.8	80	17.0	23
5	1800	230	184T	FDU5CM2K18	$1,378	DS-3SP	1.15	18.8	80	24.0	23
	1800	230	215TZ	FDU5CM2K21Z	$1,524	DS-3SP	1.15	20.1	142	29.0	23
7 1/2	1800	230	215T	FDU7CM2K21	$2,044	DS-3SP	1.15	21.4	150	30.8	
	1800	230	215TZ	FDU7CM2K21Z	$2,044	DS-3SP	1.15	21.4	150	30.8	
10	1800	230	215T	FDU10CM2K21	$2,511	DS-3SP	1.15	21.4	153	41.0	
13	1800	230	215T	FDU13CM2K21	$2,924	DS-3SP	1.00	21.4	155	54.2	23

C-Face

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
3	1800	208-230	184TC	FDU3CM2K18C	$1,262	DS-3SP	1.15	18.7	78	16.4/17.0	23
5	1800	208-230	184TC	FDU5CM2K18C	$1,587	DS-3SP	1.15	18.7	100	22.2/24.0	23
7 1/2	1800	230	213TCYZ	FDU7CM2K21ZC	$2,349	DS-3SP	1.15	21.0	150	30.8	23
	1800	230	215TC	FDU7CM2K21C	$2,349	DS-3SP	1.15	21.3	150	30.8	23
10	1800	230	215TC	FDU10CM2K21C	$2,887	DS-3SP	1.15	21.3	215	41.0	23

Note 23 Manual Reset Thermal Protector Overload

Special Application Air Compressor Single Phase, Open Drip Proof (ODP)



APPLICATIONS:

For belt drive air compressor duty high breakdown torque.

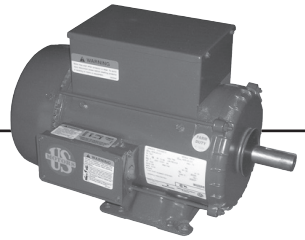
FEATURES:

- Rigid Welded Base
- Continuous Duty
- Manual Reset Thermal Overload Protector
- ODP Enclosure
- Class B Insulation
- 40°C Ambient
- Ball Bearings
- Rotation - CCW Facing Shaft End, Non-Reversible
- Capacitor Start, Capacitor Run
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1	3600	115/230	56	D1CPM1PH	$560	DS-3FMP	1.25	11.4	29	9.3/4.3	23
2	3600	115/230	56	3768	$655	DS-3F	1.00	11.9	28	15.0/7.5	
3	3600	208-230	56	D3CPM1T	$888	DS-3FMP	1.15	13.2	42	13.2	23
5	3600	208-230	56HZ	D5CM1K14	$866	DS-3F	1.00	14.4	43	22.5-22.0	
	3600	230	56HZ	EB384	$899	DS-3F	1.15	15.0	50	21.5	
	1800	230	184T	D5C2K	$909	DS-3SP	1.15	16.3	75	23.5	25
7 1/2	3600	230	184T	D7C1K	$969	DS-3SP	1.15	16.3	80	30.0	25

Note 23 Manual Reset Thermal Protector Overload
Note 25 Non-protected

Special Application Agriculture Totally Enclosed Fan Cooled (TEFC) Agri Duty High Torque Single Phase, Capacitor Start



APPLICATIONS:

For powering agitators, augers, compressors, conveyors, feeders and hay hoists.
High torque motors are used on barn cleaners, manure pumps and silo unloaders.

FEATURES:

- Class F Insulation (140-210 Frame)
- 40°C Ambient, Continuous Duty
- Reversible Rotation
- F1 Assembly
- Steel Frames & Steel Welded Based (140-210 Frame)
- Manual Reset Thermal Overload Protector
- Steel Fan Cover & Conduit Box
- Non-Regreasable Double Shielded Bearings
- Shaft Slinger (140-210 Frame)
- Capacitor Start-Capacitor Run (3-10 HP)
- Low Temperature Grease
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/3	1800	115/230	56	FD13CM2P	$278	DS-3FMP	1.15	10.9	25	6.6/3.3	23
1/2	1800	115/230	56	FD12CM2P	$324	DS-3FMP	1.15	11.4	27	9.0/4.5	23
3/4	1800	115/230	56	FD34CM2P	$384	DS-3FMP	1.15	11.9	32	11.4/5.7	23
1	1800	115/230	143T	FD1CM2P14	$684	DS-3F	1.15	12.8	32	15.0/7.5	23
	1800	115/230	56H	FD1CM2PZ	$439	DS-3FMP	1.15	12.9	40	14.0/7.0	23
1 1/2	1800	115/230	145T	FD32CM2P14	$473	DS-3SP	1.15	14.3	43	16.2/8.1	23
	1800	115/230	56H	FD32CM2PH	$468	DS-3FMP	1.15	13.9	32	16.2/8.1	23
2	1800	115/230	182T	FD2CM2P18	$779	DS-3SP	1.00	15.2	60	23.6/11.8	23
	1800	115/230	56HZ	FD2CM2PHZ	$639	DS-3FMP	1.00	14.3	50	20.0/10.0	23
3	1800	230	184T	FD3CM2K18	$1,045	DS-3SP	1.00	17.2	74	14.5	23
5	1800	230	184T	FD5CM2K18	$1,307	DS-3SP	1.00	18.2	125	22.0	23
	1800	230	213T	FD5CM2K21	$1,442	DS-3SP	1.00	19.6	180	23.0	23
7 1/2	1800	230	215T	FD7CM2K21	$1,937	DS-3SP	1.00	22.1	147	30.0	23
10	1800	230	215T	FD10CM2K21	$2,380	DS-3SP	1.00	22.1	180	38.0	23

C-Face Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/3	1800	115/230	56C	FD13CM2PC	$370	DS-3FMP	1.15	10.9	21	6.6/3.3	23
1/2	1800	115/230	56C	FD12CM2PC	$375	DS-3FMP	1.15	11.4	26	9.0/4.5	23
3/4	1800	115/230	56C	FD34CM2PC	$447	DS-3FMP	1.15	11.9	30	11.4/5.7	23
1	1800	115/230	56HC	FD1CM2PHC	$503	DS-3FMP	1.15	12.9	35	14.0/7.0	23
1 1/2	1800	115/208-230	56HC	FD32CPM2PHC	$599	DS-3FMP	1.15	13.9	32	14.4/8.3-7.2	23
	1800	115/230	145TC	FD32CM2P14C	$515	DS-3FMP	1.15	13.9	48	16.2/8.1	23
2	1800	115/230	145TC	FD2CM2PHC	$704	DS-3FMP	1.15	14.4	32	18.9/9.4	23

C-Face Footless

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/3	1800	115/230	56C	FD13CM2PCR	$360	DS-3FMP	1.15	10.9	21	6.6/3.3	23
1/2	1800	115/230	56C	FD12CM2PCR	$360	DS-3FMP	1.15	11.4	32	9.0/4.5	23
3/4	1800	115/230	56C	FD34CM2PCR	$437	DS-3FMP	1.15	11.9	32	11.4/5.7	23
1	1800	115/230	56C	FD1CM2PCR	$493	DS-3FMP	1.15	12.9	44	14.0/7.0	23
1 1/2	1800	115/230	56C	FD32CM2PCR	$589	DS-3FMP	1.15	13.9	44	16.2/8.1	23

Note 23 Manual Reset Thermal Protector Overload

Special Application Agriculture
Aeration Fan & Crop Dryer



APPLICATIONS:

For air over applications or fans mounted directly on the motor shaft.
Specifically designed for use on vane axial crop dryers and aeration fans.

FEATURES:

Aeration Fan

- Totally Enclosed Air Over
- Class B Insulation On 56 Frame
- Class F Insulation On 140 Frame
- Keyed Shaft Drilled On Center 1" Deep & Tapped 1/4" UNC
- 56Z Frame Motors Have 5/8" Dia. X 2-1/4" Long Shaft
- F1 Assembly Position

Crop Dryer

- Open Drip Proof Air-Over
- Thermostat Protected (Overheating Protection) Requires Leads to be Connected to Control Circuit of Motor Controller
- Non-Standard 1-1/8" Diameter X 3-1/4" Long Keyed Shaft Is Drilled On Center 1" Deep & Tapped 1/4-20 UNC
- Rodent Screens, Extra Long Leads, Class F Insulation
- F1 Assembly Position

Aeration Fan - Cap Start

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
3/4	3600	115/230	56Z	FD34CA1PZ	$356	DS-3SP	1.00	10.3	19	-	11.0/5.5	24
1	3600	115/230	56Z	FD1CA1PZ	$423	DS-3SP	1.00	12.3	29	70.0	12.4/6.2	24
1 1/2	3600	115/230	143TZ	FD32CA1P14	$582	DS-3SP	1.00	13.3	32	73.0	17.4/8.7	24
2	3600	115/230	143TZ	FD2CA1P14	$686	DS-3SP	1.00	13.8	32	75.5	22.2/11.1	24
3	3600	230	145TZ	FD3CA1K14	$719	DS-3SP	1.00	13.7	42	78.5	14.9	CSCR,24

Crop Dryer - Cap Start

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
5 - 7	3600	230	184TZ	FD5CM1K18Z	$1,160	DS-3SP	1.00	18.4	90	82.8	21.0	
7 ½ - 9	3600	230	184TZ	FD7CM1K18Z	$1,240	DS-3SP	1.00	18.4	90	88.7	30.0	
10 - 12	3600	230	215TZ	FD10CM1K21Z	$1,859	DS-3SP	1.15	20.4	127	85.2	40.0	

Note 24 Automatic Reset Thermal Protector Overload
Note CSCR Capacitor Start /Capacitor Run

Special Application Farm Direct Drive Poultry Fan



APPLICATIONS:

For direct drive exhaust and vent fans in poultry and livestock houses.

FEATURES:

- Continuous Duty
- PSC Models Include Capacitor Mounted With Cover
- Clockwise Drive End Rotation
- Automatic Reset Thermal Overload Protection
- Studs For Mounting Fan Guard
- 1.0 Service Factor Except Where Noted
- Terminal Board With Side Conduit Plug Unless Noted
- **Discount Symbol: DS-3HAC**

Yoke Mount, Welded Tab Fan Motors; Single Phase

HP	RPM/ Spds	Voltage	Frame	Catalog Number	List	Discount Symbol	Amps	Motor Type	Bearings	Enclosure	Ship Wt. (lbs)	Notes
1/4	1100 / 2	115	48Y	1931*	♦	DS-3HAC	3.0	PSC	Slv	TEAO	18	
	1075 / 2	115	48Y	1933	♦	DS-3HAC	5.7	PSC	Ball	OAO	19	
	1075 / 2	115	48YZ	1917**	♦	DS-3HAC	4.2	PSC	Ball	TEAO	17	
1/3	1075 / 2	115	48Y	1935	♦	DS-3FMP	5.3	PSC	Ball	TEAO	17	
1/2	1075 / 2	115	48Y	1838	♦	DS-3HAC	5.8	PSC	Ball	TEAO	25	
	1075 / 2	115	48Y	1924	♦	DS-3HAC	7.2	PSC	Ball	TEAO	22	
	1075 / 2	115	48YZ	1937	♦	DS-3HAC	7.1	PSC	Ball	TEAO	17	
	825 / 1	115	48YZ	1940	♦	DS-3HAC	6.4	PSC	Ball	TEAO	25	
	825 / 1	115/230	48YZ	1380	♦	DS-3HAC	6.9/3.4	PSC	Ball	TEAO	22	

Yoke Mount, Welded Tab Fan Motors; Three Phase

HP	RPM/ Spds	Voltage	Frame	Catalog Number	List	Discount Symbol	Amps	Bearings	Enclosure	Ship Wt. (lbs)	Notes
1/2	825/700/1	230/460	48YZ	FD12EA4B4Z7	♦	DS-3HAC	2.3/1.2	Ball	TEAO	22	03

♦ Refer to Motorboss for Pricing

Note 03 60/50 Hz rated with no derate on HP 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

* Catalog # 1931 has ½" diameter shaft 3" long

** Catalog # 1917 has ½" diameter shaft 2.5" long

Special Application Farm Single and Three Phase Direct Drive Poultry Fan



APPLICATIONS:

For direct drive exhaust and vent fans in poultry and livestock houses.

FEATURES:

- Ball Bearings
- 40°C Ambient
- TEAO Enclosure except where noted
- Class B Insulation
- Continuous Air Over Duty
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- **Discount Symbol: DS-3FMP (except where noted)**

Single Phase, Permanent Split Capacitor, Resilient Mount

HP	RPM	Voltage	Frame	Catalog Number	List	Mounting	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Shaft Dim. (inches)	Notes
1/4	1800	115/230	48Y	1255	$175	CRADLE/ STD	-	12.9	16	2.5/1.3	1/2 DIA X 4-1/2"L	
1/3	1800	115/230	48Z	FD13AA2P4Z9	$282	CRADLE/ STD	1.00	10.4	19	3.8/1.9	1/2 DIA X 2-1/2"L	24, DS-3FMP
	1200	115/208-230	48Y	1900	$229	CRADLE/ STD	1.00	7.4	17	4.2/2.1	1/2 DIA X 4-1/2"L	
1/2	1800	115/230	48Y	1850	$295	CRADLE/ STD	1.00	10.9	23	5.0/2.5	1/2 DIA X 2-1/2"L	24, DS-3HAC
	1800	115/230	48Y	1899	$249	CRADLE/ STD	1.00	12.9	17	5.6/2.8	1/2 DIA X 4-1/2"L	24, DS-3HAC
	1200	115/230	48Y	1195	$254	CRADLE/ STD	-	12.9	19	5.8/2.8	1/2 DIA X 4-1/2"L	24, DS-3HAC

Single Phase, Permanent Split Capacitor, Stud Mount

HP	RPM	Voltage	Frame	Catalog Number	List	Mounting	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Shaft Dim. (inches)	Notes
1/2	900	115/230	48YZ	8102	$446	STUD	1.25	10.2	22	6.0/3.0	0.625 DIA X 2.625 - KEY	24

Single Phase, Permanent Split Capacitor, Rigid Mount

HP	RPM	Voltage	Frame	Catalog Number	List	Mounting	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Shaft Dim. (inches)	Notes
1/2	900	115/230	56Z	FD12AA4P	$587	RIGID	1.00	11.4	35	6.4/3.2	5/8 DIA X 2-1/2"L	24

Single Phase, Permanent Split Capacitor, Face Mount

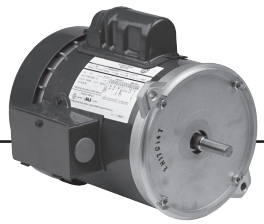
HP	RPM	Voltage	Frame	Catalog Number	List	Mounting	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Shaft Dim. (inches)	Notes
1	900	230	56YZ	1837	$837	C-FACE	1.00	13.3	32	5.2	3/4 DIA X 3-1/4"L	
	900	230	56YZ	FD1AA4KCR	$551	C-FACE	1.00	13.9	32	5.8	5/8 DIA X 2-1/2"L	24

Three Phase, Face Mount

HP	RPM	Voltage	Frame	Catalog Number	List	Mounting	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Shaft Dim. (inches)	Notes
1	900	440-460	56YZ	8101	$887	C-FACE	1.00	13.6	32	1.9-2.0	3/4 DIA X 3-1/4"L	24, DS-3F
1 1/2	900	460	184TCH	UN32S4CKR	$2,344	HORZ-FOOTLESS	1.25	16.9	60	3.8	N\A	DS-3A0

Note 24 Automatic Reset Thermal Protector Overload

Special Application Agriculture Auger Duty Motors



CAPACITOR START

APPLICATIONS:

For use on augers.

FEATURES:

- Totally Enclosed Fan Cooled (except where noted)
- Class B Insulation
- Manual Reset Thermal Overload Protector
- 1/2 HP & Above Have ODE Shaft Extension for Hand Crank
- Ball Bearings
- 56Y are Keyed; 56YZ are Flat Shaft
- Reversible Rotation
- Footless (except where noted)
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

Capacitor Start

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/2	1800	115/230	56YZ	1843	$644	DS-3FMP	1.00	11.6	29	8.0/4.0 & 9.6/4.8	98
	1800	115/230	56Y	FD12CM2PZY	$515	DS-3FMP	1.00	11.6	32	8.0/4.0 & 9.6/4.8	98, FT
	1800	115/230	56Y	FD12CM2PZYR	$495	DS-3FMP	1.00	12.0	22	8.6/4.3 & 10.4/5.4	95,98
3/4	1800	115/230	56Y	1801	$590	DS-3FMP	1.00	12.9	38	10.6/5.3 & 11.8/5.9	
	1800	115/230	56YZ	FD34CM2PZY	$568	DS-3FMP	1.00	12.6	32	10.6/5.3 & 11.8/5.9	98,FT
	1800	115/230	56YZ	FD34CM2PZYR	$590	DS-3FMP	1.00	12.6	32	10.6/5.3 & 11.8/5.9	95,98
1	1800	115/208-230	56Y	FD1CM2PZY	$652	DS-3FMP	1.00	12.9	36	12.8/6.5-6.4	FT
1 1/2	1800	115/230	56Y	FD32CM2PHZY	$814	DS-3FMP	1.15	13.9	45	16.2/8.1	FT

Split Phase

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/3	1800	115/230	56Y	FD13BM2PZYR	$313	DS-3FMP	1.00	11.5	22	5.3/2.6&5.9/3.0	28,95

Three Phase

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/3	1800	190/380 & 208-230/460	56Y	FD13SM2DZYR	$424	DS-3FMP	1.00	11.2	26	2.0/1.0 & 1.8-2.0/1.0	
1/2	1800	190/380 & 208-230/460	56Y	FD12SM2DZYR	$467	DS-3FMP	1.00	11.8	17	2.2/1.1 & 2.0-2.0/1.0	
3/4	1800	190/380 & 208-230/460	56Y	FD34SM2DZYR	$526	DS-3FMP	1.00	11.8	27	3.0/1.5 & 2.7-2.6/1.3	
1	1800	190/380 & 208-230/460	56Y	FD1PM2DZYR	$549	DS-3FMP	1.15	13.0	36	3.5/1.8 & 3.3-3.2/1.5	
1 1/2	1800	190/380 & 208-230/460	56Y	FD32PM2DZYR	$633	DS-3FMP	1.15	14.0	38	4.5/2.2 & 4.5-4.5/2.2	

Note 28 TENV Enclosure
Note 95 Nitride shaft
Note 98 50/60 Hz Motor
Note FT Footed

Special Application Agriculture
Agri Duty Fan and Hatcher/Setter Motors



Agri Duty Fan



Hatcher/Setter

APPLICATIONS:

Agri duty fans for direct drive and vent fans in poultry and livestock houses. Hatcher and setter motors are used in hatchers and setters.

FEATURES:

Agri Duty Fan Motors

- Ball Bearings
- 40°C Ambient, Continuous Duty
- Totally Enclosed Air Over (TEAO) Enclosure
- Rigid Base (except where noted)
- Class B Insulation
- Automatic Reset Thermal Overload Protector
- Built-in Conduit Box
- Split Phase & Capacitor Start (see notes below)
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

Hatcher & Setter Motors

- Ball Bearings
- 40°C Ambient
- Totally Enclosed Air Over (TEAO) Enclosure
- Class B Insulation
- Continuous Air Over Duty
- Permanent Split Capacitor
- Shaft Dimensions 0.5 Dia. X 1.5 Length
- Reversible Rotation (except where noted)

Agri Duty Fan Motors - Single Phase

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/2	1800	115/230	56	FD12BA2P	$406	DS-3FMP	1.25	11.4	24	8.0/4.0	94
	1800	115/230	56	FD12BA2P9	$417	DS-3FMP	1.25	12.3	32	5.4/2.7	35,94
3/4	1800	115/230	56	FD34BA2P	$481	DS-3FMP	1.25	11.9	32	10.8/5.4	94
1	1800	115/208-230	56H	FD1CPA2JH	$682	DS-3FMP	1.40	12.9	40	9.0/4.5	24,98,CSCR
	1800	115/208-230	56	FD1CA2J	$552	DS-3FMP	1.15	12.4	32	10.9/5.4-5.4	CSCR
	1800	115/208-230	56	FD1CA2J9	$566	DS-3FMP	1.15	12.4	35	10.9/5.4-5.4	35,60
1 1/2	1800	115/230	56	FD32CA2P	$653	DS-3FMP	1.00	12.9	38	13.0/6.5	CSCR
	1800	115/230	56	FD32CPA2P	$751	DS-3FMP	1.30	12.9	40	13.6/6.8	CSCR

Agri Duty Fan Motors - Three Phase

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/2	1800	208-230/460	56H	FD12SA2D	$336	DS-3FMP	1.15	10.9	17	1.8-1.8/0.9	24,98
1	1800	208-230/460	56H	FD1EA2D	$415	DS-3FMP	1.15	11.9	29	3.1/1.5	24,98
1 1/2	1800	208-230/460 & 190/380	56H	FD32EA2D	$453	DS-3FMP	1.15	11.9	30	4.7-4.7/2.3&5.4/2.7	24,98

Hatcher & Setter Motors

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/2	1800	115/230	48YZ	FD12AM2P4ZRS	$487	DS-3FMP	1.00	9.4	19	5.0/2.5	23

Note 23 Manual Reset Thermal Protector Overload
Note 24 Automatic Reset Thermal Protector Overload
Note 35 Resilient Base
Note 60 Capacitor Start
Note 94 Split phase
Note 98 50/60 Hz Motor
Note CSCR Capacitor Start /Capacitor Run

Commercial Duty Pump Motors

Horsepower: 1/4 – 50 HP

Phase: Single and Three Phase

RPM: 3600, 1800 or 1200 RPM

Voltage:
- Single Phase: 208-230/115 Volts, 50/60 Hz options
- Three Phase: 208-230/460 and 190/380-415 Volts, 60/50 Hz (575 Volts available)

Efficiency: Standard, Energy Efficient, EXTREME-E® and Nema®† Premium

Bolt-On Base: Many ratings provide for removable base construction

Mounting Options:
- NEMA®† 56C, TC, TSC and 56J
- Bolt-on base models provide for both shaft down, vertically mounted pump applications and rigid base, horizontally mounted pump applications

Enclosure: Open Drip Proof (ODP) and Totally Enclosed Fan Cooled (TEFC)

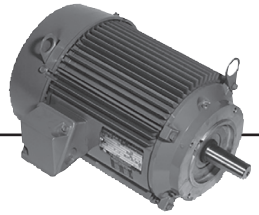
Bearings: Double sealed ball bearings on all 56-Frame commercial duty pump motors. Double shielded ball bearings on all other motors.

303 or 304 stainless steel shaft extensions: on 56J mount motors providing superior corrosion resistance

Agency: UL®† Recognized and CSA®† Certified



Special Application Commercial Pump Three Phase Totally Enclosed Fan Cooled (TEFC) C-Face



APPLICATIONS:

For use on chiller, condensate, and other HVAC duty pumps, booster and irrigation pumps, dishwasher and part washer pumps, watering and de-watering pumps, and other commercial duty pumping applications.

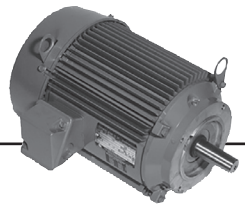
FEATURES:

- Totally Enclosed, 50 Hertz Motors supplied with CE Markings
- Double Sealed Ball Bearings On All 56 Frame Commercial Duty Pump Motors
- Double Shielded Ball Bearings On All Other Motors
- Continuous Duty
- 60 Hertz & 60/50 Hertz
- 50/60 Hertz Motors have 1.0 Service Factor on 50 Hertz
- 40°C Ambient
- Shaft Slinger On Pulley End
- NEMA® 'C' Flange Mounting
- Premium 303 S.S. on 56J Mount: 7/16-20 UNC-2A
- Shaft Threads for 56J Mount: 7/16-20 UNC-2A
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	Base (Feet)	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Max Amps	Notes
1/4	1800	208-230/460	56C	U14S2DCR	$231	DS-3RST	No	1.25	10.8	23	70.0	0-1.1/0.5	16
	1800	575	56C	U14P2GC	$319	DS-3RST	Rigid	1.25	10.8	30	74.0	0.4	
	1200	208-230/460	56C	T14S3DCR	$308	DS-3RST	No	1.15	11.3	27	75.5	1.6-1.6/0.8	
	1200	575	56C	U14P3GC	$407	DS-3RST	Rigid	1.25	10.8	30	72.0	0.6	
1/3	3600	208-230/460	56C	T13S1ACR	$279	DS-3RST	No	1.15	10.8	32	74.6	1.8-1.9/1.0	
	1800	208-230/460	42CZ	T13S2D42ZCR	$266	DS-3RST	No	1.00	10.4	9	65.0	1.5-1.5/0.75	
	1800	208-230/460	56C	U13S2ACR	$266	DS-3RST	No	1.25	10.8	25	75.5	1.4-1.3/0.7	16
	1800	575	56C	U13P2GC	$365	DS-3RST	Rigid	1.25	10.8	30	74.0	0.5	
	1800	575	56C	T13S2GCR	$266	DS-3RST	No	1.15	11.4	26	75.3	0.62	
	1200	208-230/460	56C	T13S3DCR	$346	DS-3RST	No	1.15	11.3	32	77.0	1.7-1.7/0.9	
	1200	575	56C	U13P3GC	$455	DS-3RST	Rigid	1.25	10.8	30	72.0	0.8	
1/2	3600	208-230/460	56J	EE283B	$311	DS-3RST	Rigid	1.60	11.2	26	80.1	2.8-2.7/1.35	98
	3600	208-230/460	56C	T12S1ACR	$291	DS-3RST	No	1.15	10.9	32	64.0	2.34-2.34/1.17	
	3600	208-230/460	56J	EE283	$296	DS-3RST	No	1.60	11.2	17	80.1	2.8-2.7/1.35	98
	3600	575	56C	EE283-5	$296	DS-3RST	No	1.60	11.16	40	-	.87	
	3600	575	56C	U12P1GC	$386	DS-3RST	Rigid	1.25	12.1	30	74.0	0.6	
	1800	208-230/460	56C	U12P2DCR	$378	DS-3RST	No	1.25	12.1	30	82.5	1.8/0.9	03
	1800	208-230/460	56C	U12S2ACR	$291	DS-3RST	No	1.25	10.8	25	75.5	2.1-2/1	16
	1800	208-230/460	56C	EE256	$341	DS-CPMP	No	1.15	11.1	22	75.0	2.2-2.0/1.0	98
	1800	575	56C	U12P2GC	$397	DS-3RST	Rigid	1.25	10.8	30	78.5	0.9	
	1800	575	56C	U12P2GCR	$378	DS-3RST	No	1.25	10.8	30	78.5	0.9	
	1200	208-230/460	56C	U12S3ACR	$378	DS-3RST	No	1.25	10.8	25	72.0	2.5-2.3/1.2	16
	1200	575	56C	U12P3GC	$495	DS-3RST	Rigid	1.25	12.1	30	75.5	0.9	
3/4	3600	208-230/460	56J	EE515B	$324	DS-3RST	Rigid	1.50	11.9	22	82.7	3.7-3.6/1.8	98
	3600	208-230/460	56C	U34S1ACR	$304	DS-3RST	No	1.25	10.8	27	75.5	0-2.6/1.3	16
	3600	208-230/460	56J	EE515	$309	DS-3RST	No	1.50	11.9	17	82.7	3.7-3.6/1.8	98
	3600	575	56C	U34P1GC	$402	DS-3RST	Rigid	1.25	12.1	30	77.0	0.8	
	3600	575	56C	U34P1GCR	$384	DS-3RST	No	1.25	12.1	30	77.0	0.8	
	3600	575	56J	EE515-5PE	$387	DS-3RST	No	1.25	12.6	30	77.0	1	
	1800	208-230/460	56J	EE586	$345	DS-3RST	Rigid	1.25	12.4	23	81.7	3.0-2.9/1.5	03,98
	1800	208-230/460	56C	U34P2DCR	$408	DS-3RST	No	1.25	12.1	30	84.0	2.3/1.1	03
	1800	208-230/460	56C	U34S2ACR	$314	DS-3RST	No	1.25	10.8	28	78.5	3.1-3/1.5	16
	1800	575	56C	U34P2GC	$427	DS-3RST	Rigid	1.25	10.8	30	81.5	1.1	
	1800	575	56C	U34P2GCR	$408	DS-3RST	No	1.25	10.8	30	81.5	1.1	
	1200	575	143TC	U34P3G14C	$585	DS-3RST	Rigid	1.25	12.1	30	82.5	1.3	
	1200	208-230/460	56C	U34S3ACR	$449	DS-3RST	No	1.15	12.8	32	80.5	3.4-3.4/1.7	
	1200	575	56C	U34P3GC	$585	DS-3RST	Rigid	1.25	12.1	30	82.5	1.3	
	1200	575	56C	U34P3GCR	$566	DS-3RST	No	1.25	12.1	30	82.5	1.3	
1	3600	208-230/460	56C	U1P1DC	$503	DS-3RST	Rigid	1.25	13.1	30	81.5	3.6-3.2/1.6	03
	3600	208-230/460	56C	U1P1DCR	$488	DS-3RST	No	1.25	13.1	30	81.5	3.6-3.2/1.6	03
	3600	208-230/460	56J	EE516B	$365	DS-3RST	No	1.40	11.2	17	77.0	4.4-4.2/2.1	98
	3600	208-230/460	56J	EE516	$350	DS-3RST	No	1.40	11.2	28	77.0	4.4-4.2/2.1	98
	3600	575	56C	U1P1GCR	$488	DS-3RST	No	1.25	10.8	30	80.0	1.3	
	3600	575	56C	U1P1GC	$503	DS-3RST	No	1.25	13.1	50	81.5	1.3	
	3600	575	56J	EE516-5	$350	DS-3F	No	1.15	12.4	40	77.0	3.5-3.4/1.7	
	1800	208-230/460	143TC	U1P2DC	$503	DS-3RST	Rigid	1.25	13.1	30	85.5	0-3.4/1.7	03
	1800	208-230/460	143TC	U1P2DCR	$488	DS-3RST	No	1.25	12.1	30	85.5	0-3.4/1.7	03
	1800	575	143TC	U1P2GC	$503	DS-3RST	Rigid	1.25	13.1	30	85.5	1.3	
	1800	575	143TC	U1P2GCR	$488	DS-3RST	No	1.25	13.1	30	85.5	1.3	
	1800	208-230/460	56J	EE684	$357	DS-3RST	Removeable	1.15	13.4	26	85.5	3.6-3.7/1.8	03,98
	1800	208-230/460	56C	U1P2DFC	$440	DS-3RST	Rigid	1.25	13.1	30	85.5	3.7-3.4/1.7	03
	1800	208-230/460	56C	U1P2DFCR	$425	DS-3RST	No	1.25	13.1	30	85.5	3.7-3.4/1.7	03
	1800	575	56C	U1P2GFC	$440	DS-3RST	Rigid	1.25	13.1	30	85.5	1.3	03
	1800	575	56C	U1P2GFCR	$425	DS-3RST	No	1.25	13.1	30	85.5	1.3	

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate
Note 16 Motors marked 208-230/460 volts may not meet all NEMA® (MG-1) performance standards when operated at 208 volts
Note 98 50/60 Hz Motor

Special Application Commercial Pump Three Phase Totally Enclosed Fan Cooled (TEFC) C-Face



(continued)

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	Base (Feet)	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Max Amps	Notes
1	1200	208-230/460	145TC	U1P3DC	$655	DS-3RST	Rigid	1.25	13.1	35	82.5	4.3-4/2	03
	1200	575	145TC	U1P3GC	$655	DS-3RST	Rigid	1.25	13.1	35	82.5	1.6	
	1200	208-230/460	56C	U1P3DFC	$655	DS-3RST	Rigid	1.25	13.1	30	82.5	4.3-4/2	03
	1200	575	56C	U1P3GFC	$655	DS-3RST	Rigid	1.25	13.1	30	82.5	1.6	
	1200	575	56C	U1P3GFCR	$655	DS-3RST	No	1.25	13.4	35	82.5	1.6	
1 1/2	3600	208-230/460	143TC	U32P1DC	$567	DS-3RST	Rigid	1.25	13.1	30	84.0	5.3-4.7/2.4	03
	3600	208-230/460	143TC	U32P1A14CR	$552	DS-3RST	No	1.15	11.9	32	84.0	4.9-5.2/2.6	
	3600	575	143TC	U32P1GC	$567	DS-3RST	Rigid	1.25	13.1	30	84.0	1.9	
	3600	575	143TC	U32P1GCR	$647	DS-3RST	No	1.25	13.1	30	84.0	1.9	
	3600	208-230/460	56C	U32P1DFC	$500	DS-3RST	Rigid	1.25	13.1	30	84.0	5.3-4.7/2.4	03
	3600	208-230/460	56J	EE661B	$405	DS-3RST	Rigid	1.30	12.9	37	84.0	4.9-4.6/2.4	98
	3600	208-230/460	56C	T32P1ACR	$485	DS-3RST	No	1.15	12.3	32	84.0	4.9-5.2/2.6	
	3600	208-230/460	56J	EE661	$390	DS-3RST	No	1.30	12.9	34	84.0	4.9-4.6/2.4	98
	3600	575	56C	U32P1GFC	$567	DS-3RST	Rigid	1.25	13.1	30	84.0	1.9	
	3600	575	56C	U32P1GFCR	$647	DS-3RST	No	1.25	13.1	30	84.0	1.9	
	3600	575	56J	EE661-5	$390	DS-3RST	No	1.25	12.9	40	84.0	1.7	
	1800	200	145TC	U32P2HC	$549	DS-3RST	Rigid	1.25	13.1	35	86.5	5.7	
	1800	208-230/460	145TC	U32P2DC	$549	DS-3RST	Rigid	1.15	13.1	35	86.5	5.4-5/2.4	03
	1800	208-230/460	145TC	U32P2DCR	$534	DS-3RST	No	1.15	13.1	35	86.5	5.4-5/2.4	03
	1800	575	145TC	U32P2GC	$549	DS-3RST	Rigid	1.25	13.1	35	86.5	2	
	1800	575	145TC	U32P2GCR	$534	DS-3RST	No	1.25	13.1	35	86.5	2	
	1800	208-230/460	56C	U32P2DFC	$442	DS-3RST	Rigid	1.25	13.1	30	86.5	5.4-5/2.5	03
	1800	208-230/460	56J	EE694	$426	DS-3RST	Rigid	1.15	13.9	26	86.5	4.9-4.9/2.5	03,98
	1800	208-230/460	56C	U32P2DFCR	$426	DS-3RST	No	1.25	13.1	30	86.5	5.4-5/2.5	03
	1800	575	56C	U32P2GFC	$442	DS-3RST	Rigid	1.25	13.1	30	86.5	2	03
	1800	575	56C	U32P2GFCR	$426	DS-3RST	No	1.25	13.1	30	86.5	2	
	1200	208-230/460	182TC	U32P3DC	$845	DS-3AL	Rigid	1.25	16.2	60	87.5	0-5.5/2.7	03
	1200	575	182TC	U32P3GC	$845	DS-3AL	Rigid	1.25	16.2	60	87.5	2.2	
2	3600	208-230/460	145TC	U2P1DC	$604	DS-3RST	Rigid	1.25	13.1	35	86.5	6.8-6/3	03
	3600	575	145TC	U2P1GC	$604	DS-3RST	Rigid	1.25	13.1	35	86.5	2.4	
	3600	208-230/460	56C	U2P1DFC	$491	DS-3RST	Rigid	1.25	13.1	30	86.5	6.8-6/3	03
	3600	208-230/460	56J	EE706B	$480	DS-3RST	Rigid	1.25	13.4	39	85.5	5.4-5.1/2.6	98
	3600	208-230/460	56J	EE706	$465	DS-3RST	No	1.25	13.4	36	85.5	6.6-6.1/3.1	98
	3600	208-230/460	56C	T2P1ACR	$529	DS-3RST	No	1.15	13.6	35	85.5	7.1-6.0/3.0	04,16
	3600	575	56C	U2P1GFC	$496	DS-3RST	Rigid	1.25	13.1	30	86.5	2.4	
	3600	575	56C	U2P1GFCR	$479	DS-3RST	No	1.25	13.1	30	86.5	2.4	
	3600	575	56J	EE706-5	$465	DS-3RST	No	1.25	13.4	45	85.5	2.3	
	1800	208-230/460	145TC	U2P2DC	$593	DS-3RST	Rigid	1.15	13.1	35	86.5	0-6.3/3.1	03
	1800	208-230/460	145TC	U2P2DCR	$578	DS-3RST	No	1.25	13.1	35	86.5	7.2-6.7/3.3	03
	1800	575	145TC	U2P2GC	$593	DS-3RST	Rigid	1.25	13.1	35	86.5	2.7	
	1800	575	145TC	U2P2GCR	$578	DS-3RST	No	1.25	13.1	35	86.5	2.7	
	1800	208-230/460	56C	U2P2DFC	$484	DS-3RST	Rigid	1.25	13.1	30	86.5	7.2-6.7/3.3	03
	1800	208-230/460	56J	EE2156	$470	DS-3RST	Rigid	1.15	14.4	37	86.5	6.5-6.6/3.3	03,98
	1800	208-230/460	56C	U2P2DFCR	$467	DS-3RST	No	1.25	13.1	30	86.5	7.2-6.7/3.3	03
	1800	575	56C	U2P2GFC	$484	DS-3RST	Rigid	1.25	13.9	50	85.5	3	04,16
	1200	208-230/460	184TC	U2P3DC	$930	DS-3AL	Rigid	1.25	16.9	70	88.5	0-7.2/3.6	03
	1200	575	184TC	U2P3GC	$930	DS-3AL	Rigid	1.25	16.2	70	88.5	2.9	
3	3600	208-230/460	145TC	U3P1AFC	$600	DS-3RST	Rigid	1.25	13.1	35	86.5	9.4-9.1/4.5	03,14
	3600	208-230/460	145TC	U3P1A14CR	$575	DS-3RST	No	1.25	13.9	34	86.5	8.7/4.3	04,16
	3600	575	145TC	U3P1G14C	$600	DS-3RST	Rigid	1.25	13.1	35	86.5	3.6	
	3600	575	145TC	U3P1GCR	$568	DS-3RST	No	1.25	13.1	35	86.5	3.6	
	3600	208-230/460	182TC	U3P1DC	$860	DS-3AL	Rigid	1.25	16.2	50	87.5	0-9.4/4.7	03
	3600	208-230/460	182TCH	U3P1DK	$860	DS-3AL	Rigid	1.25	16.2	50	87.5	0-9.4/4.7	03
	3600	575	182TC	U3P1GC	$860	DS-3AL	Rigid	1.25	16.2	60	87.5	3.8	
	3600	208-230/460	56C	U3P1DFC	$568	DS-3RST	Rigid	1.25	13.1	30	86.5	9.4-9.1/4.5	03
	3600	208-230/460	56J	EE707B	$527	DS-3RST	Rigid	1.15	13.9	42	86.5	9.1-8.2/4.2	
	3600	208-230/460	56C	T3P1ACR	$583	DS-3RST	No	1.15	14.1	40	86.5	7.7/3.9	
	3600	208-230/460	56J	EE707	$512	DS-3RST	No	1.15	14.4	42	86.5	9.1-8.2/4.2	
	3600	575	56C	U3P1GFC	$568	DS-3RST	Rigid	1.25	13.1	30	86.5	3.6	
	3600	575	56C	U3P1GFCR	$551	DS-3RST	No	1.25	13.1	30	86.5	3.6	
	3600	575	56J	EE707-5	$512	DS-3RST	No	1.15	14.4	45	86.5	3.0	
	1800	208-230/460	182TC	U3P2DC	$772	DS-3AL	Rigid	1.25	16.2	70	89.5	0-9.5/4.7	03
	1800	208-230/460	182TCH	U3P2DK	$772	DS-3AL	Rigid	1.25	16.2	60	89.5	0-9.5/4.7	03
	1800	208-230/460	182TC	S3P2AC	$637	DS-3RST	Rigid	1.15	15.9	85	89.5	9.6-8.8/4.4	04,16
	1800	208-230/460	182TC	S3P2ACR	$607	DS-3RST	No	1.15	15.9	60	89.5	9.6-8.8/4.4	04,16
	1800	575	182TC	U3P2GC	$772	DS-3AL	Rigid	1.25	16.2	60	89.5	3.8	
	1800	575	182TC	S3P2GC	$637	DS-3RST	Rigid	1.15	15.9	60	89.5	3.5	04
	1800	575	182TC	S3P2GCR	$607	DS-3RST	No	1.15	15.9	60	89.5	3.5	04
	1200	208-230/460	213TC	U3P3DC	$1,150	DS-3AL	Rigid	1.15	18.8	110	89.5	0-10.5/4.9	03

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50Hz data on Nameplate

Note 04 On 60 Hertz Sine Wave power

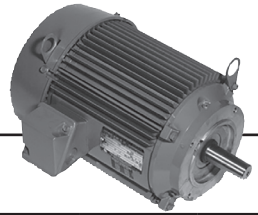
Note 14 NEMA® Design A

Note 16 Motors marked 208-230/460 volts may not meet all NEMA® (MG-1) performance standards when operated at 208 volts

Note 98 50/60 Hz Motor

Special Application Commercial Pump Three Phase Totally Enclosed Fan Cooled (TEFC) C-Face

(continued)



HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	Base (Feet)	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Max Amps	Notes
5	3600	208-230/460	184TC	U5P1DC	$1,056	DS-3AL	Rigid	1.15	16.2	75	88.5	0-13.8/6.9	03
	3600	208-230/460	184TCH	U5P1DK	$1,056	DS-3AL	Rigid	1.15	16.2	75	88.5	0-13.8/6.9	03
	3600	208-230/460	184TC	S5P1AC	$752	DS-3RST	Rigid	1.15	15.9	65	88.5	16-14/7	04,16
	3600	208-230/460	184TC	S5P1ACR	$722	DS-3RST	No	1.15	15.9	70	88.5	16-14/7	04,16
	3600	575	184TC	S5P1GC	$752	DS-3RST	Rigid	1.15	15.9	70	88.5	5.6	04
	3600	575	184TC	U5P1GC	$1,056	DS-3AL	Rigid	1.25	16.2	70	88.5	6.1	
	3600	575	184TC	S5P1GCR	$722	DS-3RST	No	1.15	15.9	70	88.5	5.6	04
	1800	200	184TCH	U5P2HK	$882	DS-3AL	Rigid	1.25	16.9	80	89.5	17.6	03
	1800	208-230/460	184TC	U5P2DC	$882	DS-3AL	Rigid	1.25	16.9	80	90.2	17.4-15.3/7.7	03
	1800	208-230/460	184TCH	U5P2DK	$882	DS-3AL	Rigid	1.25	16.9	80	90.2	17.4-15.3/7.7	03
	1800	208-230/460	184TC	S5P2AC	$752	DS-3RST	Rigid	1.15	15.9	110	89.5	0-14.1/7	04,16
	1800	208-230/460	184TC	S5P2ACR	$722	DS-3RST	No	1.15	15.9	70	89.5	15.7-14.1/7	04,16
	1800	575	184TC	U5P2GC	$882	DS-3AL	Rigid	1.25	16.9	70	89.5	6.2	
	1800	575	184TC	S5P2GC	$752	DS-3RST	Rigid	1.15	15.9	70	89.5	5.6	04
	1800	575	184TC	S5P2GCR	$722	DS-3RST	No	1.15	15.9	70	89.5	5.6	04
	1200	208-230/460	215TC	U5P3DC	$1,597	DS-3AL	Rigid	1.25	20.3	135	90.2	0-16.8/8.4	03
	1200	575	215TC	U5P3GC	$1,597	DS-3AL	Rigid	1.25	20.3	135	89.5	6.7	
7 1/2	3600	208-230/460	213TC	S7P1AC	$996	DS-3RST	Rigid	1.15	19.4	116	89.5	23.4-20.5/10.3	04,16
	3600	208-230/460	213TC	U7P1DC	$1,306	DS-3AL	Rigid	1.25	18.8	105	91.0	0-22.3/11.2	03
	3600	208-230/460	213TC	S7P1ACR	$951	DS-3RST	No	1.15	19.4	105	89.5	23.4-20.5/10.3	04,16
	3600	575	213TC	U7P1GC	$1,306	DS-3AL	Rigid	1.25	18.8	105	89.5	9.3	
	3600	575	213TC	S7P1GC	$996	DS-3RST	Rigid	1.15	19.4	105	89.5	8.3	04,16
	3600	575	213TC	S7P1GCR	$951	DS-3RST	No	1.15	19.4	105	89.5	8.3	04
	1800	208-230/460	213TC	U7P2DC	$1,192	DS-3AL	Rigid	1.25	19.1	105	91.7	0-22.5/11.3	03
	1800	208-230/460	213TC	S7P2AC	$956	DS-3RST	Rigid	1.15	19.4	90	91.7	23.1-20.7/10.4	04,16
	1800	208-230/460	213TC	S7P2ACR	$911	DS-3RST	No	1.15	19.4	105	91.7	23.1-20.7/10.4	04,16
	1800	575	213TC	S7P2GC	$956	DS-3RST	Rigid	1.15	19.4	105	91.7	8.3	04,16
	1800	575	213TC	U7P2GC	$1,192	DS-3AL	Rigid	1.25	18.8	105	91.7	9	
	1800	575	213TC	S7P2GCR	$911	DS-3RST	No	1.15	19.4	105	91.7	8.3	04
	1200	208-230/460	254TC	U7P3DC	$2,147	DS-3AL	Rigid	1.25	23.9	180	91.0	0-23.1/11.6	03
	1200	575	254TC	U7P3GC	$2,147	DS-3AL	Rigid	1.25	24.0	180	91.0	9.3	
10	3600	208-230/460	215TC	U10P1DC	$1,511	DS-3AL	Rigid	1.25	20.3	125	91.0	35-29.8/14.9	03
	3600	208-230/460	215TC	S10P1AC	$1,142	DS-3RST	Rigid	1.15	19.4	131	90.2	0-27.2/13.6	04,16
	3600	208-230/460	215TC	S10P1ACR	$1,097	DS-3RST	No	1.15	19.4	120	90.2	31-27.2/13.6	04,16
	3600	575	215TC	U10P1GC	$1,511	DS-3AL	Rigid	1.25	20.1	125	91.7	11.9	
	3600	575	215TC	S10P1GC	$1,078	DS-3RST	Rigid	1.15	19.4	120	90.2	10.9	04,16
	3600	575	215TC	S10P1GCR	$1,097	DS-3RST	No	1.15	19.4	120	90.2	10.9	04
	1800	208-230/460	215TC	U10P2DC	$1,416	DS-3AL	Rigid	1.25	20.3	133	91.7	0-30/15	03
	1800	208-230/460	215TC	S10P2AC	$1,176	DS-3RST	Rigid	1.15	19.4	120	91.7	31-27.5/13.8	04,16
	1800	208-230/460	215TC	S10P2ACR	$1,131	DS-3RST	No	1.15	19.4	120	91.7	31-27.5/13.8	04,16
	1800	575	215TC	U10P2GC	$1,416	DS-3AL	Rigid	1.25	20.3	133	91.7	12	
	1800	575	215TC	S10P2GC	$1,176	DS-3RST	Rigid	1.15	19.4	120	91.7	11	04,16
	1800	575	215TC	S10P2GCR	$1,131	DS-3RST	No	1.15	19.4	120	91.7	11	04
	1200	208-230/460	256TC	U10P3DC	$2,558	DS-3AL	Rigid	1.25	25.8	230	91.7	0-31/15.3	03
15	3600	230/460	254TC	S15P1ACR	$1,658	DS-3RST	No	1.15	27.7	180	91.0	35/17.3	
	3600	208-230/460	215TC	U15P1DFC	$1,812	DS-3AL	Rigid	1.25	20.3	120.0	91.0	0-45/22.5	03
	3600	208-230/460	254TC	U15P1DC	$2,174	DS-3AL	Rigid	1.25	24.0	180.0	91.0	0-44/22.2	02,03
	3600	575	254TC	S15P1GCR	$1,658	DS-3RST	No	1.15	27.7	180	91.0	13.9	
	3600	575	254TC	U15P1GC	$2,174	DS-3AL	Rigid	1.25	24.0	185.0	91.0	17.9	
	1800	230/460	254TC	S15P2ACR	$1,655	DS-3RST	No	1.15	27.7	180	92.4	36/17.9	
	1800	208-230/460	254TC	U15P2DC	$1,973	DS-3AL	Rigid	1.15	23.9	180	92.4	0-42/21	03
	1800	575	254TC	S15P2GCR	$1,655	DS-3RST	No	1.15	27.7	180	92.4	14.4	
20	3600	230/460	256TC	S20P1ACR	$2,025	DS-3RST	No	1.15	27.7	230	91.0	46/23	14
	3600	208-230/460	256TC	U20P1DC	$2,650	DS-3AL	Rigid	1.25	25.6	230.0	91.0	0-59/29.7	02,03
	3600	575	256TC	S20P1GCR	$2,025	DS-3RST	No	1.15	27.7	230	91.0	18.5	14
	3600	575	256TC	U20P1GC	$2,650	DS-3AL	Rigid	1.25	25.8	230.0	91.0	23.9	02
	1800	230/460	256TC	S20P2ACR	$2,013	DS-3RST	No	1.15	27.7	230	93.0	48/24	14
	1800	208-230/460	256TC	U20P2DC	$2,391	DS-3AL	Rigid	1.25	25.8	230.0	93.0	0-60/29.8	03
	1800	575	256TC	S20P2GCR	$2,013	DS-3RST	No	1.15	27.7	230	93.0	19.4	14
25	3600	208-230/460	284TC	U25P1DC	$3,268	DS-3AL	Rigid	1.25	28.3	250	91.7	0-74/37	03
	1800	208-230/460	284TC	U25P2DC	$2,890	DS-3AL	Rigid	1.25	28.3	280	93.6	0-74/37	03
30	1800	208-230/460	286TC	U30P2DC	$3,333	DS-3AL	Rigid	1.25	28.4	325	93.6	92-91/45	03

Note 02 Suitable for Wye-Delta start on voltages shown
Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate
Note 04 On 60 Hertz Sine Wave power
Note 14 NEMA® Design A
Note 16 Motors marked 208-230/460 volts may not meet all NEMA® (MG-1) performance standards when operated at 208 volts

Special Application Commercial Pump Three Phase Open Drip Proof (ODP) C-Face



APPLICATIONS:

For use on chiller, condensate, and other HVAC duty pumps, booster and irrigation pumps, dishwasher and part washer pumps, watering and de-watering pumps, and other commercial duty pumping applications.

FEATURES:

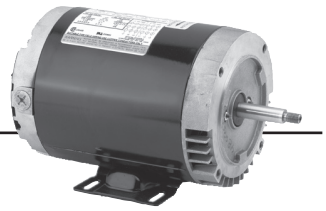
- Double Sealed Ball Bearings On All 56 Frame Commercial Duty Pump Motors;
- Double Shielded Ball Bearings On All Others
- Continuous Duty
- 60 Hertz & 60/50 Hertz
- 50/60 Hertz Motors have 1.0 Service Factor on 50 Hertz
- 40°C Ambient
- Suitable for Wye-Delta Start 250-Frame and Larger
- NEMA® 'C' Flange Mounting
- Shaft Threads for 56J Mount: 7/16-20 UNC-2A
- Premium 303 S.S. on 56J; Mount & Carbon Steel on All Others
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	Base (Feet)	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Max Amps	Notes
1/2	3600	208-230/460	56J	EE155B	$256	DS-3F	Rigid	1.60	10.9	21	83.3	2.6-2.4/1.2	98
	3600	208-230/460	56J	EE155	$251	DS-3F	No	1.60	10.9	20	83.3	2.6-2.4/1.2	98
	3600	208-230/460	56C	EE254	$244	DS-CPMP	No	1.60	10.8	15	43.3	2.8-2.7/1.35	98
	3600	575	56J	EE155-5	$263	DS-CPMP	No	1.60	11.3	16	-	1.1	
3/4	3600	208-230/460	56J	EE446B	$454	DS-3F	Rigid	1.50	10.9	20	85.0	3.7-3.6/1.8	98
	3600	208-230/460	56J	EE446	$449	DS-3F	No	1.50	10.9	19	85.0	3.7-3.6/1.8	98
	3600	208-230/460	56C	EE508	$444	DS-3F	No	1.50	11.3	20	55.5	3.8-3.6/1.8	98
	3600	575	56J	EE446-5	$449	DS-3F	No	1.25	10.9	35	-	1.2	
	1800	208-230/460	56J	EE045	$402	DS-3F	Rigid	1.25	12.4	27	-	3.0-2.9/1.4	98
1	3600	208-230/460	56J	EE506B	$474	DS-3F	Rigid	1.40	11.9	22	85.5	4.4-4.2/2.1	98
	3600	208-230/460	56J	EE506	$469	DS-3F	No	1.40	11.9	22	85.5	4.4-4.2/2.1	98
	3600	208-230/460	56C	EE511	$464	DS-3F	No	1.40	11.6	17	67.5	4.6-4.6/2.3	98
	3600	575	56J	EE506-5	$479	DS-CPMP	No	1.40	12.1	19	76.3	2.4	
	1800	208-230/460	143TC	D1P2DC	$474	DS-3E	Removeable	1.15	13.3	30	85.5	3.5-3.3/1.7	
	1800	208-230/460	56HC	D1P2AHC	$433	DS-3E	Rigid	1.15	12.4	26	83.5	3.7-3.4/1.7	
1 1/2	3600	208-230/460	56J	EE607B	$546	DS-3F	Rigid	1.30	12.4	18	69.1	6.0-5.8/2.9	
	3600	208-230/460	56HC	D32P1AHC	$500	DS-3E	Rigid	1.15	11.9	32	84.0	4.9/2.4	
	3600	208-230/460	56J	EE607	$541	DS-3F	No	1.30	12.4	17	69.1	6.0-5.8/2.9	98
	3600	208-230/460	56C	EE609	$537	DS-3F	No	1.00	11.4	28	82.5	5.8/2.9	98
	3600	575	56J	EE607-5	$349	DS-CPMP	No	1.00	11.9	30	82.5	1.9	
	1800	208-230/460	145TC	D32P2DC	$499	DS-3E	Removeable	1.15	13.3	35	86.5	5-4.6/2.3	
	1800	208-230/460	56C	EE930	$352	DS-CPMP	No	1.15	12.6	15	-	5.4-4.8/2.4	98
2	3600	208-230/460	145TC	D2P1DC	$551	DS-3E	Removeable	1.15	12.8	35	85.5	6.2-5.6/2.8	
	3600	208-230/460	56HC	D2P1AHC	$494	DS-3E	Rigid	1.15	11.9	32	85.5	6.3-5.8/2.9	
	3600	208-230/460	56J	EE733B	$715	DS-3F	Rigid	1.20	12.9	26	88.3	6.8-6.4/3.2	98
	3600	208-230/460	56C	EE612B	$402	DS-CPMP	Rigid	1.15	11.9	30	85.5	6.3-5.7/2.9	98
	3600	208-230/460	56J	EE733	$710	DS-3F	No	1.20	12.9	25	88.3	6.8-6.4/3.2	
	3600	208-230/460	56C	EE612	$705	DS-3F	No	1.15	11.9	93	85.5	6.3-5.7/2.9	98
	3600	575	56J	EE733-5	$719	DS-3F	No	1.20	12.4	25	85.5	2.6	
	1800	208-230/460	145TC	D2P2DC	$548	DS-3E	Removeable	1.15	12.8	35	86.5	6.6-6.2/3.1	
3	3600	208-230/460	145TC	D3P1DC	$566	DS-3E	Removeable	1.15	13.3	35	85.5	9.5-8.4/4.2	
	3600	208-230/460	56J	EE734B	$785	DS-3F	Rigid	1.15	14.0	35	89.8	9.6-9.4/4.7	
	3600	208-230/460	56C	EE736	$775	DS-3F	No	1.15	11.4	38	87.5	9-8.4/4.2	
	3600	208-230/460	56J	EE734	$780	DS-3F	No	1.15	13.9	37	89.79	9.6-9.4/4.7	
	3600	575	56J	EE734-5	$790	DS-3F	No	1.15	13.4	25	87.5	3.4	
	1800	208-230/460	56J	EE2113	$572	DS-3F	Rigid	1.15	14.8	43	-	10.1-9.7/4.8	
	1800	208-230/460	182TC	D3P2DC	$582	DS-3E	Rigid	1.15	14.3	50	90.2	9.4-8.6/4.3	
5	3600	208-230/460	182TC	D5P1DC	$603	DS-3E	Rigid	1.15	14.3	50	86.5	16.1-14.6/7.3	
	3600	208-230/460	56J	EE833B	$850	DS-3F	Rigid	1.00	14.9	35	88.5	13.7-13.0/6.5	
	1800	208-230/460	184TC	D5P2DC	$627	DS-3E	Rigid	1.15	15.8	60	89.5	15.9-14.1/7.1	

Note 98 50/60 Hz Motor

Special Application Commercial Pump Three Phase Open Drip Proof (ODP) C-Face

(continued)

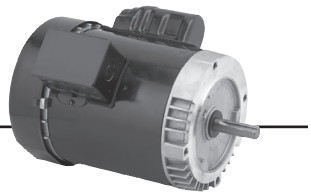


HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	Base (Feet)	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Max Amps	Notes
7 1/2	3600	208-230/460	184TC	D7P1DC	$942	DS-3E	Rigid	1.15	15.8	60	88.5	23.8-20.8/10.4	
	1800	208-230/460	213TC	D7P2DC	$917	DS-3E	Rigid	1.15	16.8	100	91.0	23.3-21/10.5	
10	3600	208-230/460	213TC	D10P1DC	$1,101	DS-3E	Rigid	1.15	16.8	100	90.2	32-28/14	
	1800	208-230/460	215TC	D10P2DC	$1,116	DS-3E	Rigid	1.15	18.3	110	92.4	30-27.2/13.6	
15	3600	208-230/460	215TC	D15P1DC	$1,513	DS-3E	Rigid	1.15	18.3	100	90.2	0-42/20.8	
	1800	230/460	254TC	D15P2EC	$1,526	DS-3E	Rigid	1.15	19.6	150	93.0	37/18.3	02,03
20	3600	230/460	254TC	D20P1EC	$1,831	DS-3E	Rigid	1.15	19.6	150	91.7	46/23.1	02,03
	1800	230/460	256TC	D20P2EC	$1,957	DS-3E	Rigid	1.15	20.8	160	93.0	47/23.6	
25	3600	230/460	256TC	D25P1EC	$2,394	DS-3E	Rigid	1.15	20.8	160	91.7	57/28.7	02,03
	1800	230/460	284TC	D25P2EC	$2,446	DS-3PO	Rigid	1.15	25.6	225	93.6	58.0/29.2	
30	3600	230/460	284TSC	D30P1ESC	$2,861	DS-3PO	Rigid	1.15	24.3	225	91.7	69.0/34	
	1800	208-230/460	286TC	D30P2DC	$2,861	DS-3E	Rigid	1.15	24.9	350	94.1	89-79/40	02,03
40	3600	230/460	286TSC	D40P1ESC	$3,115	DS-3PO	Rigid	1.15	24.3	250	92.4	90.0/45	
	1800	208-230/460	324TC	D40P2DC	$3,424	DS-3E	Rigid	1.15	27.3	385	94.1	118-105/52	02,03
50	3600	208-230/460	324TSC	D50P1DSC	$3,778	DS-3E	Rigid	1.15	25.8	385	93.0	153-136/68	02,03
	1800	208-230/460	326TC	D50P2DC	$3,921	DS-3E	Rigid	1.15	27.3	460	94.5	147-130/65	02,03

Note 02 Suitable for Wye-Delta start on voltages shown

Note 03 60/50 Hertz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Special Application Commercial Pump Single Phase Totally Enclosed Fan Cooled (TEFC) C-Face



APPLICATIONS:

For use on chiller, condensate, and other HVAC duty pumps, booster and irrigation pumps, dishwasher and part washer pumps, watering and de-watering pumps, and other commercial duty pumping applications.

FEATURES:

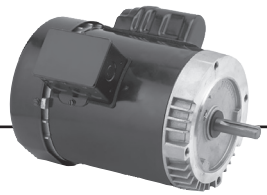
- Double Sealed Ball Bearings
- Class B Insulation, Continuous Duty, 40°C Ambient
- Shaft Threads for 56J Mount: 7/16-20 UNC-2A
- 50/60 Hertz Motors have 1.0 Service Factor on 50 Hertz
- F1 Assembly
- Reversible Rotation
- Capacitor Start, Induction Run
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	Base (Feet)	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff	Max Amps	Notes
1/4	1800	115/208-230	56C	T14C2JC	$390	DS-3F	Rigid	1.15	11.1	22	58.9	6.6/3.0-3.3	25
	1800	115/208-230	56C	T14C2JCR	$330	DS-3F	No	1.15	11.0	22	58.9	6.6/3.0-3.3	25
	1200	115/208-230	56C	T14C3JCR	$314	DS-3F	No	1.15	11.4	32	-	6.4/3.0-3.2	25
1/3	3600	115/208-230 & 110/220	56J	EU01	$341	DS-3FMP	Removable	1.15	11.9	23	72.5	7.0/3.5-3.5	24,98
	3600	115/208-230 & 110/220	56C	EC01B	$334	DS-3FMP	Rigid	1.15	11.4	23	71.9	7.0/3.5-3.5	98
	3600	115/208-230 & 110/220	56C	EC01	$332	DS-3FMP	No	1.15	11.4	22	72.5	7.0/3.5-3.5	24,98
	1800	115/230	42CZ	T13C2P42ZCR	$394	DS-3FMP	No	1.00	11.6	21	62.3	6.2/3.1	25
	1800	115/208-230	56J	EU02	$349	DS-3FMP	Removable	1.15	11.1	24	61.4	7.2/3.4-3.6	
	1800	115/208-230	56C	T13C2JC	$380	DS-3F	Rigid	1.15	11.0	19	-	7.2/3.3-3.6	25
	1800	115/208-230	56C	T13CA2JCR	$380	DS-3FMP	No	1.15	11.0	22	-	7.2/3.3-3.6	24
	1800	115/208-230	56C	T13C2JCR	$380	DS-3F	No	1.15	11.0	22	-	7.2/3.3-3.6	25
1/2	3600	115/208-230	56C	T12CA1JCR	$358	DS-3FMP	No	1.15	12.0	18	72.9	8.5/4.2-4.3	24
	3600	115/208-230 & 110/220	56J	EU03	$368	DS-3FMP	Removable	1.15	11.9	27	74.8	8.4/4.3-4.2	24,98
	3600	115/208-230 & 110/220	56C	EC03B	$363	DS-3FMP	Rigid	1.15	11.0	28	74.8	8.4/4.3-4.2	24,98
	3600	115/208-230 & 110/220	56C	EC03	$358	DS-3FMP	No	1.15	11.4	23	74.8	8.4/4.3-4.2	24,98
	1800	100-120 & 200-240	56C	6212	$565	DS-3FMP	Rigid	1.25	12.0	25	77.1	7.7-6.7/3.8-3.3	18,24,98
	1800	100-120 & 200-240	56C	T12C2ZCR	$592	DS-3FMP	No	1.25	12.0	25	77.1	7.7-6.7/3.8-3.3	18,25,98
	1800	115/208-230	56J	EU04	$498	DS-3FMP	Removable	1.15	11.3	35	70.2	8.8/4.3-4.4	24,98
	1800	115/208-230	56C	T12C2JC	$482	DS-3FMP	Rigid	1.15	11.4	32	60.7	9.2/4.3-4.6	25
	1800	115/208-230	56C	EC04	$339	DS-CPMP	No	1.15	10.9	25	70.2	8.8/4.3-4.4	
	1800	115/208-230	56C	T12CA2JCR	$496	DS-3FMP	No	1.15	11.4	32	60.7	9.2/4.3-4.6	24
	1800	115/208-230	56C	T12CM2JCR	$462	DS-3FMP	No	1.15	11.4	32	60.7	9.2/4.3-4.6	23
	1800	115/208-230	56C	T12C2JCR	$439	DS-3FMP	No	1.15	12.4	32	60.7	9.2/4.3-4.6	25
	1200	115/208-230	56C	T12C3JCR	$828	DS-3FMP	No	1.15	12.4	32	67.3	10.6/5.1-5.3	25
3/4	3600	115/208-230	56C	T34C1JC	$417	DS-3FMP	Rigid	1.15	11.9	32	67.8	12.1/6.3-6.1	25
	3600	115/208-230	56C	T34CA1JCR	$451	DS-3FMP	No	1.15	11.9	32	67.8	12.1/6.3-6.1	24
	3600	115/208-230 & 110/220	56J	EU05	$458	DS-3FMP	Removable	1.15	12.4	42	79.4	10.8/5.7-5.4	24,98
	3600	115/208-230 & 110/220	56C	EC06	$448	DS-3FMP	No	1.15	11.9	26	79.4	10.8/5.7-5.4	24,98
	1800	100-120 & 200-240	56C	6214	$691	DS-3FMP	Rigid	1.25	12.0	32	77.1	11.5-9.9/5.7-4.9	24
	1800	100-120 & 200-240	56C	T34C2ZCR	$699	DS-3FMP	No	1.25	12.4	23	77.2	11.5-9.9/5.7-4.9	18,25,98
	1800	115/208-230	56C	T34C2JC	$585	DS-3FMP	Rigid	1.15	11.9	32	69.0	11.8/5.7-5.9	25
	1800	115/208-230	56J	EU06	$582	DS-3FMP	Rigid	1.25	12.4	30	77.0	9.9/5.1-4.9	24
	1800	115/208-230	56C	T34CA2JCR	$582	DS-3FMP	No	1.15	11.9	32	69.0	11.8/5.7-5.9	24
	1800	115/208-230	56C	T34CM2JCR	$551	DS-3FMP	No	1.15	11.9	32	69.0	11.8/5.7-5.9	23
	1800	115/208-230	56C	T34C2JCR	$527	DS-3FMP	No	1.15	11.9	32	69.0	11.8/5.7-5.9	25
	1200	115/208-230	56C	T34C3JCR	$932	DS-3FMP	No	1.15	13.4	28	70.0	11.4/5.4-5.7	18,25
1	3600	115/208-230	56C	T1C1JC	$489	DS-3FMP	Rigid	1.15	12.4	26	66.7	14.2/6.9-7.1	25
	3600	115/208-230	56C	T1CA1JCR	$524	DS-3FMP	No	1.15	12.4	32	66.7	14.2/6.9-7.1	24
	3600	115/208-230 & 110/220	56J	EU07	$511	DS-3FMP	Removable	1.15	12.6	33	80.2	13.8/7.2-6.9	24,98
	3600	115/208-230 & 110/220	56C	EC09B	$508	DS-3FMP	Rigid	1.15	12.1	29	80.6	13.8/7.2-6.9	24,98
	3600	115/208-230 & 110/220	56C	EC09	$501	DS-CPMP	No	1.15	12.1	28	80.6	13.8/7.2-6.9	98
	1800	115/208-230	56J	EU08	$505	DS-3FMP	Rigid	1.15	12.4	30	-	11.2/6.1-5.7	18,24
	1800	115/208-230	143TC	T1C2J14C	$621	DS-3F	Rigid	1.15	12.4	32	70.0	14.6/6.9-7.3	25
	1800	115/208-230	143TC	T1CA2J14CR	$677	DS-3SP	No	1.15	12.4	32	70.0	14.6/6.9-7.3	24
	1800	115/208-230	143TC	T1CM2J14CR	$700	DS-3SP	No	1.15	12.4	32	70.0	14.6/6.9-7.3	23
	1800	115/208-230	143TC	T1C2J14CR	$638	DS-3SP	No	1.15	12.4	32	70.0	14.6/6.9-7.3	25
	1800	100-120 & 200-240	56C	T1CA2ZC	$730	DS-3FMP	Rigid	1.15	13.4	30	80.6	12.9-10.6/6.4-5.3	
	1800	100-120 & 200-240	56C	T1CM2ZC	$760	DS-3FMP	Rigid	1.15	13.4	38	81.9	12.9-10.6/6.4-5.3	
	1800	115/208-230	56HC	T1C2JHC	$621	DS-3FMP	Rigid	1.15	12.4	32	70.0	14.6/6.9-7.3	25

Note 18 Incorporates Run Capacitor
Note 23 Manual Reset Thermal Protector Overload
Note 24 Automatic Reset Thermal Protector Overload
Note 25 Non-protected
Note 98 50/60 Hertz Motor

Special Application Commercial Pump Single Phase Totally Enclosed Fan Cooled (TEFC) C-Face

(continued)



HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	Base (Feet)	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff	Max Amps	Notes
1	1800	115/208-230	56C	T1CA2JCR	$610	DS-3FMP	No	1.15	12.4	32	70.0	14.6/6.9-7.3	24
	1800	115/208-230	56C	T1C2JCR	$571	DS-3FMP	No	1.15	12.4	32	70.0	14.6/6.9-7.3	25
	1800	208-230/115	56C	EC10B	$623	DS-3FMP	Rigid	1.15	12.4	37	75.9	14.2/7.5-7.1	
	1200	115/208-230	56C	T1C3JCR	$1,011	DS-3FMP	No	1.15	13.9	44	77.9	13.9/7.4-7.0	25
1 1/2	3600	115/208-230	143TC	T32C1J14CR	$637	DS-3SP	No	1.15	12.9	32	78.5	16.8/8.1-8.5	25
	3600	115/208-230	56HC	T32C1JHC	$603	DS-3FMP	Rigid	1.15	12.9	42	78.5	16.8/8.1-8.5	25
	3600	115/208-230	56C	T32CA1JCR	$637	DS-3FMP	No	1.15	12.9	32	78.5	16.8/8.1-8.5	24
	3600	115/208-230 & 110/220	56C	EC11B	$650	DS-3FMP	Rigid	1.15	12.6	36	83.2	18.4/10.3-9.2	24,98
	3600	115/208-230 & 110/220	56C	EC11	$645	DS-CPMP	No	1.15	12.6	35	83.2	18.4/10.3-9.2	98
	3600	115/208-230 & 110/220	56J	EU09	$655	DS-3FMP	No	1.15	13.1	40	83.2	18.4/10.3-9.2	24,98
	1800	115/208-230	145TC	T32C2J14C	$731	DS-3F	Rigid	1.15	13.9	45	80.0	15.8/8.0-7.9	25
	1800	115/208-230	145TC	T32C2J14CR	$723	DS-3SP	No	1.15	13.9	47	80.0	15.8/8.0-7.9	25
	1800	115/208-230	56C	EC12B	$729	DS-3FMP	Rigid	1.15	12.4	38	81.8	15.8/8.7-7.9	18,24
	1800	115/208-230	56HC	T32C2JHC	$736	DS-3FMP	Rigid	1.15	13.9	41	80.0	15.8/8.0-7.9	25
	1800	115/208-230	56C	EC12	$724	DS-CPMP	No	1.15	12.4	37	81.9	15.8/8.7-7.9	18
	1800	115/208-230	56J	EU10	$670	DS-3FMP	Rigid	1.15	12.9	37	-	14.6/8.2-7.3	18,24
	1800	115/208-230	56C	T32CA2JCR	$689	DS-3FMP	No	1.15	13.9	31	80.0	15.8/8.0-7.9	24
	1800	115/208-230	56C	T32CM2JCR	$712	DS-3FMP	No	1.15	13.9	31	80.0	15.8/8.0-7.9	23
	1800	115/208-230	56C	T32C2JCR	$650	DS-3FMP	No	1.15	13.9	31	80.0	15.8/8.0-7.9	25
2	3600	115/208-230	145TC	T2C1J14C	$778	DS-3FMP	Rigid	1.15	13.4	43	80.0	21.3/10.8-10.6	25
	3600	115/208-230	145C	T2C1J14CR	$813	DS-3SP	No	1.15	12.9	34	80.0	21.3/10.8-10.6	25
	3600	208-230 & 220	56J	EU11	$825	DS-3FMP	Removable	1.15	13.4	42	87.5	11.0-10.0	18,24,98
	3600	208-230 & 220	56C	EC13B	$780	DS-3FMP	Rigid	1.15	12.9	38	87.5	11.0-10.0	18,24,98
	3600	208-230 & 220	56C	EC13	$815	DS-3FMP	No	1.15	12.9	37	87.6	11.0-10.0	18,24,98
	1800	115/208-230	145TC	T2C2J14C	$846	DS-3FMP	Rigid	1.15	13.9	46	81.5	20.6/10.3-10.3	18,25
	1800	115/208-230	145TC	T2CA2J14CR	$1,008	DS-3SP	No	1.00	14.4	40	81.5	18.9/10.3-9.4	24
	1800	115/208-230	145TC	T2C2J14CR	$969	DS-3SP	No	1.15	13.9	46	81.5	20.6/10.3-10.3	25
	1800	115/208-230	56HC	T2C2JHC	$846	DS-3FMP	Rigid	1.15	13.9	43	81.5	20.6/10.3-10.3	18,25
	1800	115/208-230	56C	T2CA2JCR	$778	DS-3FMP	No	1.00	14.4	31	81.5	18.9/10.3-9.4	24
	1800	115/208-230	56C	T2CM2JCR	$801	DS-3FMP	No	1.00	13.9	31	81.5	18.9/10.3-9.4	23
	1800	115/208-230	56C	T2C2JCR	$739	DS-3FMP	No	1.15	13.9	31	81.5	20.6/10.3-10.3	25
3	3600	208-230	56J	EU12	$894	DS-3FMP	Removable	1.15	13.9	17	87.9	15.8-14.6	18,24
	3600	208-230	56C	EC16B	$522	DS-CPMP	Rigid	1.15	13.4	39	87.9	15.8-14.6	18
	3600	208-230	56C	EC16	$517	DS-CPMP	No	1.15	13.4	32	-	15.8-14.6	18,24
5	3600	230	184TC	T5C1K18C	$1,397	DS-3SP	Rigid	1.00	17.3	91	83.0	19.6	18,25

Note 18 Incorporates Run Capacitor
Note 23 Manual Reset Thermal Protector Overload
Note 24 Automatic Reset Thermal Protector Overload
Note 25 Non-protected
Note 98 50/60 Hertz Motor

Special Application Commercial Pump Single Phase Open Drip Proof (ODP) C-Face



APPLICATIONS:

For use on chiller, condensate, and other HVAC duty pumps, booster and irrigation pumps, dishwasher and part washer pumps, watering and de-watering pumps, and other commercial duty pumping applications.

FEATURES:

- Double Sealed Ball Bearings - Locked Drive End Bearing
- 50/60 Hertz Motors have 1.0 Service Factor on 50 Hertz
- Class B Insulation
- Continuous Duty
- 40°C Ambient
- F1 Assembly
- Reversible Rotation
- Shaft Threads for 56J Mount: 7/16-20 UNC-2A
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	Base (Feet)	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Max Amps	Notes
1/4	1200	115	56C	D14B3NCR	$326	DS-3FMP	No	1.35	10.9	20	6.2	25
1/3	3600	115/208-230	56C	EC0332	$208	DS-3FMP	No	1.75	10.8	16	8.0/4.2-4.0	24,98
	3600	115/208-230	56C	EC0332B	$214	DS-3FMP	Rigid	1.75	10.8	17	8.0/4.2-4.0	24,98
	3600	115/208-230	56J	EU0332	$214	DS-3FMP	No	1.75	11.3	18	8.0/4.2-4.0	24,98
	3600	115/208-230	56J	EU0332B	$219	DS-CPMP	Removable	1.75	11.4	18	8.6/4.5-4.3	24,98
	1800	115/230	56C	D13CP2PCR	$423	DS-3FMP	No	1.35	10.8	18	4.6/2.3	25
	1800	115/208-230	56J	EU0334	$280	DS-3FMP	Removable	1.35	10.6	12	8.3/4.1-4.2	24
1/2	3600	115/208-230	56C	EC0502	$280	DS-3FMP	No	1.60	11.2	22	10.8/5.9-5.4	24,98
	3600	115/208-230	56J	EU0502	$285	DS-3FMP	No	1.60	11.7	17	10.8/5.9-5.4	24,98
	3600	115/208-230	56J	EU0502B	$290	DS-3FMP	Removable	1.60	11.6	18	10.4/5.1-5.2	24,98
	1800	115/230	56C	D12CP2PCR	$497	DS-3FMP	No	1.25	10.9	22	5.9/3.0	25
	1800	115/230	56C	D12CPA2PCR	$570	DS-3F	No	1.25	9.9	22	5.9/3.0	24
	1800	115/208-230	56C	EC0504B	$456	DS-3FMP	Rigid	1.25	10.4	22	10.0/5.1-5.0	24
	1800	115/208-230	56J	EU0504	$453	DS-3FMP	Removable	1.25	10.9	29	10.0/5.1-5.0	24
3/4	3600	115/230	56C	D34CPM1PCR	$516	DS-3FMP	No	1.25	11.4	24	8.1/4.2	23
	3600	115/208-230	56C	D34CA1JCR	$388	DS-3FMP	No	1.25	11.4	32	12.1/6.3-6.1	24,LA
	3600	115/208-230	56C	EC0752	$350	DS-3FMP	No	1.50	11.9	18	12.8/7.0-6.4	24,98
	3600	115/208-230	56J	EU0752B	$359	DS-3FMP	Removable	1.50	12.1	27	14.0/7.3-7.0	24,98
	3600	115/208-230	56J	EU0752	$355	DS-3FMP	No	1.50	12.4	23	12.8/7.0-6.4	24,98
	1800	115/230	56C	D34CP2PCR	$610	DS-3FMP	No	1.25	11.9	29	8.2/4.1	25
	1800	115/230	56C	D34CPA2PCR	$690	DS-3FMP	No	1.25	13.0	29	8.2/4.1	24
	1800	115/208-230	56J	EU0754	$553	DS-3FMP	No	1.25	11.9	29	8.2/4.1	25
1	3600	115/208-230	56C	EC1002	$404	DS-3FMP	No	1.40	12.2	20	15.4/8.5-7.7	24,98
	3600	115/230	56C	D1CPA1PCR	$560	DS-3FMP	No	1.25	12.9	29	11.5/5.5	24
	3600	115/208-230	56J	EU1002B	$413	DS-3FMP	Removable	1.40	12.4	29	16.2/8.6-8.1	24,98
	3600	115/208-230	56J	EU1002	$409	DS-3FMP	No	1.40	12.7	23	15.4/8.5-7.7	24,98
	1800	115/230	56C	D1CP2PCR	$662	DS-3FMP	No	1.15	13.0	31	9.2/4.6	25
	1800	115/208-230	56C	EC1004B	$615	DS-3FMP	Rigid	1.15	11.6	31	16.4/8.4-8.2	24

Note 24 Automatic Reset Thermal Protector Overload
Note 25 Non-protected
Note 98 50/60 Hertz Motor
Note LA Limited Availability

Special Application Commercial Pump Single Phase Open Drip Proof (ODP) C-Face

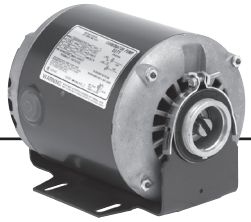
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HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	Base (Feet)	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Max Amps	Notes
1 1/2	3600	115/208-230	56C	EC1502	$490	DS-3FMP	No	1.30	12.4	33	21.8/11.3-10.9	24,98
	3600	115/208-230	56J	EU1502	$494	DS-3FMP	No	1.30	12.9	33	21.8/11.3-10.9	24,98
	3600	115/208-230	56J	EU1502B	$501	DS-3FMP	Removable	1.30	12.9	35	21.8/11.3-10.9	24,98
	1800	115/230	56HC	D32CP2PCR	$693	DS-3FMP	No	1.15	12.9	37	14.6/7.3	25
2	3600	115/208-230	56C	EC2002	$618	DS-3FMP	No	1.20	12.4	32	22.2/12.2-11.1	18,24,98
	3600	115/208-230	56C	EC2002B	$620	DS-3FMP	Rigid	1.20	12.4	33	22.2/12.2-11.1	18,24,98
	3600	115/208-230	56J	EU2002	$619	DS-3FMP	No	1.20	12.9	32	22.2/12.2-11.1	18,24,98
	3600	115/208-230	56J	EU2002B	$626	DS-3FMP	Removable	1.20	12.9	33	22.2/12.2-11.1	18,24,98
	1800	115/230	56C	D2CP2PCR	$990	DS-3FMP	No	1.15	13.4	42	19.6/9.8	25
3	3600	208-230	56C	EC3002	$700	DS-3FMP	No	1.15	12.9	37	15.7-14.2	18,24
	3600	208-230	56J	EU3002	$705	DS-3FMP	No	1.15	13.4	37	15.7-14.2	18,24
	3600	208-230	56J	EU3002B	$710	DS-3FMP	Removable	1.15	13.4	38	15.7-14.2	18,24

Note 18 Incorporates Run Capacitor
Note 24 Automatic Reset Thermal Protector Overload
Note 25 Non-protected
Note 98 50/60 Hertz Motor

Special Application Carbonator Pump Single Phase Open Drip Proof (ODP) Split Phase



APPLICATIONS:

Designed end shield with extended hub and short slotted shaft for close coupling carbonator pump to motor.

FEATURES:

- For Carbonator Duty Only
- Reversible Rotation
- Automatic Reset Thermal Overload Protector
- Threaded Conduit Hub
- All Ball Bearing Construction
- Green Ground Lead
- Special Slotted Shaft

Resilient Base

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/4	1800	100-120 & 200-240 V	48YZ	6001	$202	DS-3FMP	1.00	7.7	15	4.5-4.7/2.2-2.4	61
	1800	115 V	48YZ	1004	$145	DS-3FMP	1.00	7.7	15	5.0	61
1/3	1800	100-120 & 200-240 V	48YZ	6079	$220	DS-3FMP	1.00	8.3	16	6.4-6.3/3.0-3.1	61
	1800	115 V	48YZ	1003	$174	DS-3FMP	1.00	7.7	14	6.5	61
1/2	1800	115 V	48YZ	6080	$189	DS-3FMP	1.00	8.7	16	8.4	24
	1800	120/240 V	48YZ	6078	$265	DS-3FMP	1.00	8.7	17	7.5/3.6	61
3/4	1800	115/230 V	48YZ	872	$310	DS-3FMP	1.00	9.7	25	10.0/4.9//9.8/4.9	61

Note 24 Automatic Reset Thermal Protector Overload
Note 61 Sleeve Bearings

Split Phase Hot Water Circulating Pump
Open Drip Proof (ODP)



APPLICATIONS:

Designed to meet manufacturer's requirements for use on hot water circulating pumps.

FEATURES:

- Painted Red To Indicate Hot-Water Usage
- 40°C Ambient
- Reversible Rotation
- Resilient Hub Rings
- Special Balance For Quiet Operation
- Class B Insulation
- 1725 RPM
- Automatic Reset Thermal Overload Protector
- Sleeve Bearings Have All Angle Thrust System
- Units Match OEM Performance And Mechanical Features
- Sleeve Bearings Unless Noted
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

Split Phase, NEMA®† Frame 48YZ

HP	Voltage	Catalog Number	List	Discount Symbol	Amps	Bolt Circle	Rings OC	SF	Rotation Shaft End	Ship Wt.	Notes	Industry Numbers
1/12	115	3255	$186	DS-3HAC	2.5	4.63	5.94	1.75	CW	13		111034, 805316-010
1/6	115	3256	$205	DS-3HAC	3.8	4.63	6.94	1.75	CW	15		111061, 817025-005
	115	3257	$208	DS-3HAC	3.8	5.00	6.94	1.75	CW	14		111036, 111031, 817025-001
1/4	115	3259	$231	DS-3HAC	4.6	5.00	6.94	1.25	CW	16		111040, 817025-007, 111050
1/3	115	3260	$319	DS-3HAC	6.0	5.86	6.94	1.30	CCW	15		169226, 816141-002, 169038

Capacitor Start, NEMA®† Frame 56YZ

HP	Voltage	Catalog Number	List	Discount Symbol	Amps	Bolt Circle	Rings OC	SF	Rotation Shaft End	Ship Wt.	Notes	Industry Numbers
1/2	115/208-230	3258	$342	DS-3HAC	5.7/2.9-3.0	5.86	7.94	1.50	Rev	22	2	111044, 169228, 811757-001
3/4	115/208-230	3261	$350	DS-3HAC	8.2/4.7-4.2	5.86	8.44	1.50	Rev	33	2	111047, 169230, 811757-002

Note 2 Coupler assembly required for proper Bell & Gossett replacement

Close Coupled Pump Motors

Horsepower: 1 – 60 HP

Phase: Single and Three Phase

RPM: 1800 and 3600 RPM

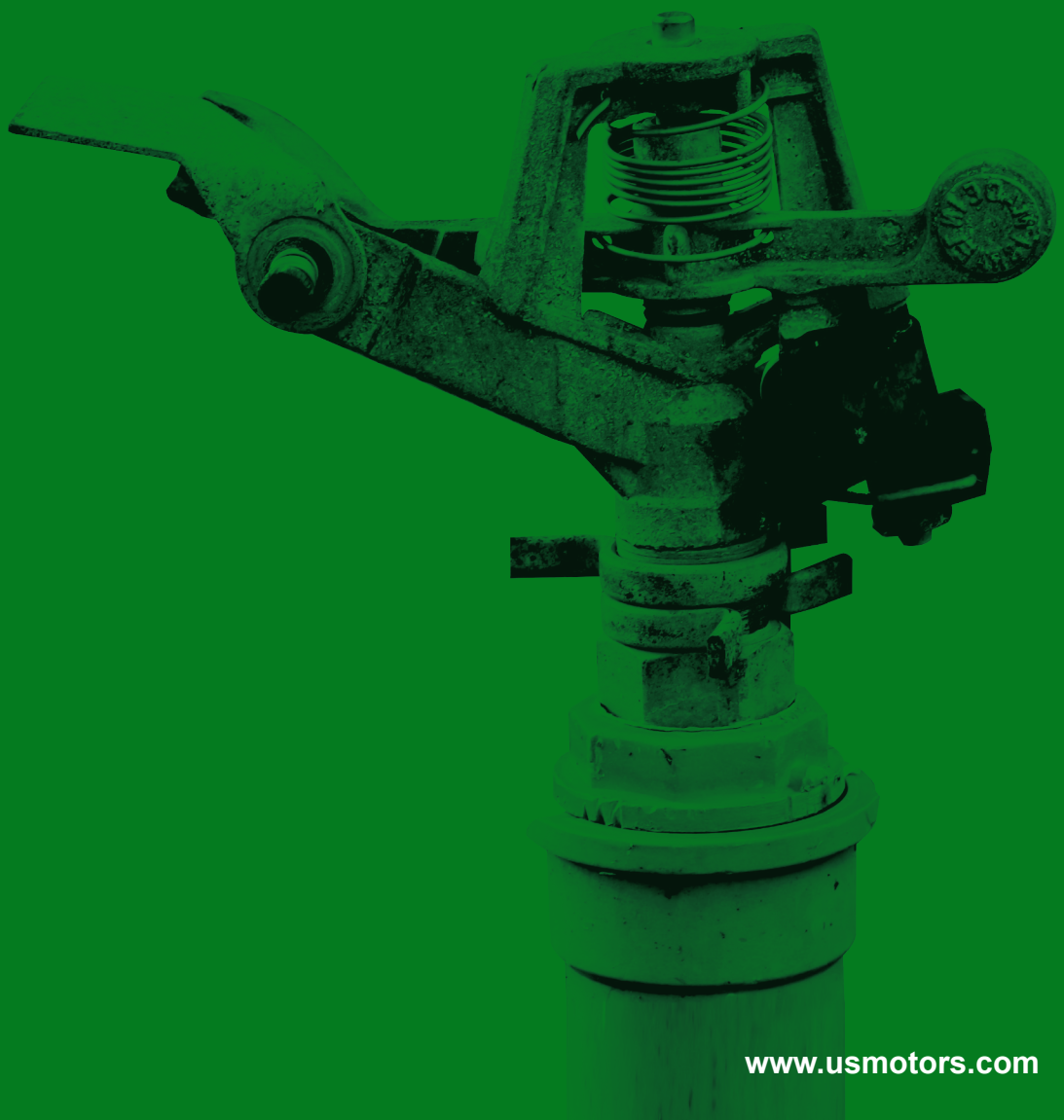
Voltage:
- 115/230
- 230
- 575
- 208-230/460
- 200
- 230/460 Volts

Efficiency: Energy and Premium Efficient

Enclosure:
- Open Drip Proof (ODP)
- Totally Enclosed, Fan Cooled (TEFC)
- Hazardous Location

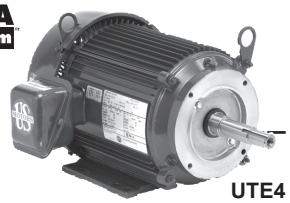
Mounting: Footed and Footless

Shaft Types:
- JM
- JP
- Westcoast



Special Application Close Coupled Pump Three Phase Totally Enclosed Fan Cooled (TEFC) NEMA®† Premium Efficient

NEMA Premium



UTE4

APPLICATIONS:

For the specific requirements of centrifugal pumps where the pump impeller is mounted directly on the motor shaft. Used in damp, dusty or dirty environments.

FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- Cast Iron Frame 280 & Up, Aluminum 180-250, Rolled Steel 140
- Cast Iron End Brackets 280 & Up, 250 Frame and Lower Has Aluminum With Steel Bearing Inserts
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Regreasable Shaft End Bearing 180 Frame & Up
- Double Shielded Bearings
- Removable Base (180 - 250 Frame)
- Lifting Provisions 180 Frame & Up
- Conversion Kits: Canopy Kits
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

JM Shaft For Mechanical Seal

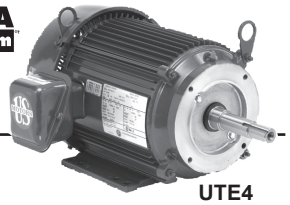
HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1	3600	230/460	143JM	UJ1P1BM	$529	DS-3PT	1.25	14.3	30	81.5	2.7/1.4	
	3600	575	143JM	UJ1P1GM	$529	DS-3PT	1.25	14.3	30	81.5	1.1	
	1800	208-230/460	143JM	UJ1P2DM	$518	DS-3PT	1.25	15.3	30	85.5	3.1-3/1.5	03
	1800	575	143JM	UJ1P2GM	$518	DS-3PT	1.25	14.3	30	85.5	1.1	
1 1/2	3600	208-230/460	143JM	UJ32P1DM	$584	DS-3PT	1.25	15.3	30	84.0	4.1-3.8/1.9	03
	3600	575	143JM	UJ32P1GM	$584	DS-3PT	1.25	14.3	30	84.0	1.6	
	1800	208-230/460	145JM	UJ32P2DM	$565	DS-3PT	1.15	15.3	35	86.5	4.5-4.3/2.1	03
	1800	575	145JM	UJ32P2GM	$565	DS-3PT	1.25	15.3	30	86.5	1.7	
2	3600	208-230/460	145JM	UJ2P1DM	$622	DS-3PT	1.25	15.3	35	86.5	5.4-4.9/2.5	03
	3600	575	145JM	UJ2P1GM	$622	DS-3PT	1.25	15.3	42	86.5	2	
	1800	208-230/460	145JM	UJ2P2DM	$611	DS-3PT	1.25	15.3	35	86.5	5.9-5.7/2.8	03
	1800	575	145JM	UJ2P2GM	$611	DS-3PT	1.25	15.3	35	86.5	2.3	
3	3600	208-230/460	145JM	UJ3P1DFM	$738	DS-3PT	1.25	15.3	35	86.5	8.1-7.2/3.6	03,14
	3600	208-230/460	182JM	UJ3P1DM	$886	DS-3PT	1.25	17.8	60	87.5	8.4-7.8/3.9	03
	3600	575	145JM	UJ3P1GFM	$738	DS-3PT	1.25	15.3	35	86.5	2.9	14
	3600	575	182JM	UJ3P1GM	$886	DS-3PT	1.25	17.8	100	87.5	3.1	
	1800	208-230/460	182JM	UJ3P2DM	$795	DS-3PT	1.25	17.8	60	89.5	8.4-7.8/3.9	03
	1800	575	182JM	UJ3P2GM	$795	DS-3PT	1.25	17.8	60	89.5	3.1	
5	3600	208-230/460	184JM	UJ5P1DM	$1,088	DS-3PT	1.25	17.8	70	88.5	13.4-12.2/6.1	03
	3600	575	184JM	UJ5P1GM	$1,088	DS-3PT	1.25	17.8	100	88.5	4.9	
	1800	208-230/460	184JM	UJ5P2DM	$908	DS-3PT	1.25	18.6	70	90.2	13.6-12.3/6.2	03
	1800	575	184JM	UJ5P2GM	$908	DS-3PT	1.25	18.6	70	89.5	5	
7 1/2	3600	208-230/460	184JM	UJ7P1DFM	$1,213	DS-3PT	1.25	17.8	70	90.2	19.9-19/9.5	03,14
	3600	208-230/460	213JM	UJ7P1DM	$1,345	DS-3PT	1.25	19.9	105	91.0	19.9-17.8/8.9	03
	3600	575	184JM	UJ7P1GFM	$1,213	DS-3PT	1.25	17.8	70	89.5	7.1	14
	3600	575	213JM	UJ7P1GM	$1,345	DS-3PT	1.25	19.9	240	91.0	7.1	
	1800	208-230/460	213JM	UJ7P2DM	$1,228	DS-3PT	1.25	19.9	105	91.7	20-18.2/9.1	03
	1800	575	213JM	UJ7P2GM	$1,228	DS-3PT	1.25	19.9	105	91.7	7.2	
10	3600	208-230/460	215JM	UJ10P1DM	$1,556	DS-3PT	1.25	21.4	120	91.0	26.4-23.5/11.7	03
	3600	575	215JM	UJ10P1GM	$1,556	DS-3PT	1.25	21.4	166	91.0	9.4	
	1800	208-230/460	215JM	UJ10P2DM	$1,458	DS-3PT	1.25	21.4	120	91.7	26.5-23.9/12	03
	1800	575	215JM	UJ10P2GM	$1,458	DS-3PT	1.25	21.4	120	91.7	9.6	

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 14 NEMA®† Design A

Special Application Close Coupled Pump Three Phase Totally Enclosed Fan Cooled (TEFC) NEMA®† Premium Efficient

(continued)



UTE4

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
15	3600	208-230/460	215JM	UJ15P1DFM	$1,801	DS-3PT	1.25	21.4	120	91.7	39-36/18	03,14
	3600	208-230/460	254JM	UJ15P1DM	$2,239	DS-3PT	1.25	25.4	180	91.0	39-35/17.7	03,14
	3600	575	215JM	UJ15P1GFM	$1,801	DS-3PT	1.25	21.4	120	91.7	14.4	14
	3600	575	254JM	UJ15P1GM	$2,239	DS-3PT	1.25	25.4	180	91.0	14.1	
	1800	208-230/460	254JM	UJ15P2DM	$2,131	DS-3PT	1.25	25.4	180	92.4	40-37/18.4	03
	1800	575	254JM	UJ15P2GM	$2,131	DS-3PT	1.25	25.4	180	92.4	14.6	
20	3600	208-230/460	256JM	UJ20P1DM	$2,730	DS-3PT	1.25	27.1	230	91.7	51-46/23	03,14
	3600	575	256JM	UJ20P1GM	$2,730	DS-3PT	1.25	27.1	230	91.0	18.5	
	1800	208-230/460	256JM	UJ20P2DM	$2,463	DS-3PT	1.25	27.1	230	93.0	53-47/23.5	03
	1800	575	256JM	UJ20P2GM	$2,463	DS-3PT	1.15	27.1	230	93.0	19	
25	3600	208-230/460	256JM	UJ25P1DFM	$3,235	DS-3PT	1.15	27.1	230	91.7	64-57/28.3	03,14
	3600	208-230/460	284JM	UJ25P1DM	$3,595	DS-3PT	1.25	29.1	280	91.7	65-57/28.4	03,14
	3600	575	256JM	UJ25P1GFM	$3,235	DS-3PT	1.15	27.1	230	91.7	22.6	14
	3600	575	284JM	HJ25P1GM	$3,595	DS-3PT	1.15	27.9	380	91.7	23	
	1800	208-230/460	284JM	UJ25P2DM	$3,237	DS-3PT	1.25	29.1	280	93.6	65-59/29.3	03
	1800	575	284JM	HJ25P2GM	$3,237	DS-3PT	1.15	27.9	380	93.6	23	
30	3600	460	286JM	HJ30P1BM	$4,383	DS-3PT	1.15	27.9	275	91.7	69/34	
	3600	575	286JM	HJ30P1GM	$4,383	DS-3PT	1.15	27.9	410	91.7	27.6	
	1800	208-230/460	286JM	UJ30P2DM	$3,666	DS-3PT	1.25	29.1	300	93.6	78-70/35	03

JP Shaft For Packing Seal

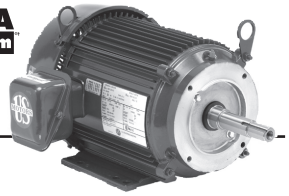
HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1	1800	208-230/460	143JP	UJ1P2DP	$518	DS-3PT	1.25	18.3	30	85.5	3.1-3/1.5	03
	1800	575	143JP	UJ1P2GP	$518	DS-3PT	1.25	17.3	30	85.5	1.1	
1 1/2	1800	208-230/460	145JP	UJ32P2DP	$565	DS-3PT	1.25	18.3	35	86.5	4.5-4.3/2.1	03
	1800	575	145JP	UJ32P2GP	$565	DS-3PT	1.25	18.3	30	86.5	1.7	
2	3600	208-230/460	145JP	UJ2P1DP	$622	DS-3PT	1.25	18.3	35	86.5	5.4-4.9/2.5	03
	1800	208-230/460	145JP	UJ2P2DP	$611	DS-3PT	1.25	18.3	35	86.5	5.9-5.7/2.8	03
	1800	575	145JP	UJ2P2GP	$611	DS-3PT	1.25	18.3	35	86.5	2.2	
3	3600	208-230/460	145JP	UJ3P1DFP	$738	DS-3PT	1.25	18.3	35	86.5	8.1-7.2/3.6	03,14
	3600	208-230/460	182JP	UJ3P1DP	$886	DS-3PT	1.25	20.8	60	87.5	8.4-7.8/3.9	03
	1800	208-230/460	182JP	UJ3P2DP	$795	DS-3PT	1.25	20.8	60	89.5	8.4-7.8/3.9	03
	1800	575	182JP	UJ3P2GP	$795	DS-3PT	1.25	20.8	60	89.5	3.1	
5	3600	208-230/460	184JP	UJ5P1DP	$1,088	DS-3PT	1.25	20.8	70	88.5	13.4-12.2/6.1	03
	1800	208-230/460	184JP	UJ5P2DP	$908	DS-3PT	1.25	21.6	70	90.2	13.6-12.3/6.2	03
	1800	575	184JP	UJ5P2GP	$908	DS-3PT	1.25	21.6	70	89.5	5	
7 1/2	3600	208-230/460	184JP	UJ7P1DFP	$1,210	DS-3PT	1.25	20.9	70	90.2	19.9-19/9.5	03,14
	3600	208-230/460	213JP	UJ7P1DP	$1,345	DS-3PT	1.25	23.8	105	91.0	19.9-17.8/8.9	03
	1800	208-230/460	213JP	UJ7P2DP	$1,228	DS-3PT	1.25	23.8	105	91.7	20-18.2/9.1	03
	1800	575	213JP	UJ7P2GP	$1,228	DS-3PT	1.25	23.8	105	91.7	7.2	

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 14 NEMA®† Design A

Special Application Close Coupled Pump Three Phase Totally Enclosed Fan Cooled (TEFC) NEMA®† Premium Efficient

(continued)



UTE4

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
10	3600	208-230/460	215JP	UJ10P1DP	$1,556	DS-3PT	1.25	25.3	120	91.0	26.4-23.5/11.7	03
	1800	208-230/460	215JP	UJ10P2DP	$1,458	DS-3PT	1.25	25.3	120	91.7	26.5-23.9/12	03
	1800	575	215JP	UJ10P2GP	$1,458	DS-3PT	1.25	25.3	120	91.7	9.6	
15	3600	208-230/460	215JP	UJ15P1DFP	$1,801	DS-3PT	1.25	25.3	120	91.7	39-36/18	03,14
	3600	208-230/460	254JP	UJ15P1DP	$2,239	DS-3PT	1.25	28.3	180	91.0	39-35/17.7	03,14
	1800	208-230/460	254JP	UJ15P2DP	$2,131	DS-3PT	1.25	28.3	180	92.4	40-37/18.4	03
	1800	575	254JP	UJ15P2GP	$2,131	DS-3PT	1.25	28.3	180	92.4	14.6	
20	3600	208-230/460	256JP	UJ20P1DP	$2,730	DS-3PT	1.25	30.0	230	91.7	51-46/23	03,14
	1800	208-230/460	256JP	UJ20P2DP	$2,463	DS-3PT	1.25	30.0	230	93.0	53-47/23.5	03
	1800	575	256JP	UJ20P2GP	$2,463	DS-3PT	1.25	30.0	230	93.0	19	
25	3600	208-230/460	256JP	UJ25P1DFP	$3,235	DS-3PT	1.15	30.0	230	91.7	64-57/28.3	03,14
	3600	208-230/460	284JP	UJ25P1DP	$3,595	DS-3PT	1.25	32.0	280	91.7	65-57/28.4	03
	1800	208-230/460	284JP	UJ25P2DP	$3,237	DS-3PT	1.25	32.0	280	93.6	65-59/29.3	03
	1800	575	284JP	HJ25P2GP	$3,237	DS-3PT	1.15	30.8	380	93.6	23	
30	3600	230/460	286JP	HJ30P1BP	$4,383	DS-3PT	1.15	30.75	410	91.7	69/34	
	1800	208-230/460	286JP	UJ30P2DP	$3,666	DS-3PT	1.25	32.0	300	93.6	78-70/35	03

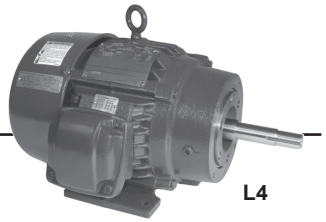
Westcoast Shaft - Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
7 1/2	3600	208-230/460	213TCZ	UJ7P1DJ	$1,345	DS-3PT	1.25	22.8	105	91.0	19.9-17.8/8.9	03
	1800	208-230/460	213TCZ	UJ7P2DJ	$1,228	DS-3PT	1.25	22.8	105	91.7	20-18.2/9.1	03
10	3600	208-230/460	215TCZ	UJ10P1DJ	$1,556	DS-3PT	1.25	24.3	120	91.0	26.4-23.5/11.7	03
	1800	208-230/460	215TCZ	UJ10P2DJ	$1,458	DS-3PT	1.25	24.3	120	91.7	26.5-23.9/12	03
15	3600	208-230/460	215TCZ	UJ15P1DFJ	$1,801	DS-3PT	1.25	24.3	120	91.7	39-36/18	03

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 14 NEMA®† Design A

Special Application Close Coupled Pump Three Phase Div. 1 Hazardous Duty, Dual Label


L4

APPLICATIONS:

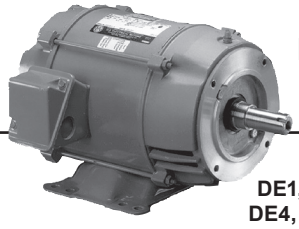
For the specific requirements of centrifugal pumps located in hazardous locations as defined by Class and Group.

FEATURES:

- UL®† Listed & CSA®† Certified
- Cast Iron Frame, End Brackets & Conduit Box
- Stainless Steel Nameplate & Zinc Plated Hardware
- Cast Iron Inner Bearing Caps
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Class I Group D, Class II Group F&G, T3B
- Regreasable Bearings, Lifting Provisions
- Double Shielded Bearings
- 1.0 Service Factor at 60 Hertz
- Class F Insulation
- "JM" Shaft for Mechanical Seal
- Conversion Kits: Cast Iron Fan Cover

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
3	3600	230/460	182JM	XJ3P1BM	$1,255	DS-3PT	1.00	18.4	90	86.5	7.8/3.9	
	1800	230/460	182JM	XJ3P2BM	$1,122	DS-3PT	1.00	18.4	90	89.5	7.7/3.8	
5	3600	230/460	184JM	XJ5P1BM	$1,546	DS-3PT	1.00	18.4	110	88.5	12.2/6.1	
	1800	230/460	184JM	XJ5P2BM	$1,285	DS-3PT	1.00	18.4	110	89.5	12.5/6.2	
7 1/2	3600	230/460	213JM	XJ7P1BM	$1,912	DS-3PT	1.00	21.0	145	89.5	18.6/9.3	
10	3600	230/460	215JM	XJ10P1BM	$2,215	DS-3PT	1.00	21.0	170	90.2	23.6/11.8	

Special Application Close Coupled Pump Three Phase Open Drip Proof (ODP) NEMA®† Premium Efficient



DE1, DE3, DE4, DEF4

APPLICATIONS:

For the specific requirements of centrifugal pumps where the pump impeller is mounted directly on the motor shaft. Used in damp, dusty or dirty environments.

FEATURES:

- Class F Insulation, Class B Rise At Service Factor
- Rolled Steel Frame
- Aluminum End Shields 140-250, Cast Iron End Shields 280-320
- Oversized Ball Bearings w/Locked Shaft End Construction
- Premasked Mylar Nameplate
- F1 Assembly Position
- Regreasable Bearings 180 Frame & Up, Lifting Provisions 210 Frame & Up
- Double Shielded Bearings
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- "JM" Shaft For Mechanical Seal
- "JM" Shaft on 210 Frame and Smaller; JP Shaft on 250 and 280 Frame
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

JM Shaft - Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
3/4	1200	208-230/460	143JM	DJ34P3DM	$655	DS-3POP	1.15	15.0	30	80.0	2.8-2.8/1.4	03
1	1800	200	143JM	DJ1P2HM	$487	DS-3POP	1.15	15.0	30	85.5	3.6	
	1800	208-230/460	143JM	DJ1P2DM	$487	DS-3POP	1.15	15.0	30	85.5	3.1-3.1/1.5	03
	1200	208-230/460	145JM	DJ1P3DM	$655	DS-3POP	1.15	15.0	35	82.5	4/4/2002	03
1 1/2	3600	208-230/460	143JM	DJ32P1DM	$519	DS-3POP	1.15	15.0	30	85.5	4.2-3.8/1.9	03
	1800	200	145JM	DJ32P2HM	$513	DS-3POP	1.15	15.0	35	86.5	4.8	
	1800	208-230/460	145JM	DJ32P2DM	$513	DS-3POP	1.15	15.0	35	86.5	4.4-4.1/2.1	03
	1200	208-230/460	182JM	DJ32P3DM	$660	DS-3POP	1.15	16.0	50	86.5	5.2-5.3/2.6	03
2	3600	208-230/460	145JM	DJ2E1DM	$524	DS-3FPO	1.15	15.0	35	84.0	5.6-5.1/2.5	03,16,NNP,LA
	3600	208-230/460	145JM	DJ2P1DM	$567	DS-3POP	1.15	15.0	35	85.5	5.5-5/2.5	03
	1800	200	145JM	DJ2P2HM	$563	DS-3POP	1.15	15.0	35	86.5	6.3	
	1800	208-230/460	145JM	DJ2P2DM	$563	DS-3POP	1.15	15.0	35	86.5	5.9-5.6/2.8	03
	1800	575	145JM	DJ2E2GM	$482	DS-3FPO	1.15	15.0	37	84.0	2.4	NNP,LA
	1800	575	145JM	DJ2P2GM	$563	DS-3POP	1.15	15.0	35	85.5	2.2	
	1200	208-230/460	184JM	DJ2P3DM	$739	DS-3POP	1.15	16.0	60	87.5	6.4-6.3/3.1	03
3	3600	208-230/460	145JM	DJ3P1DM	$582	DS-3POP	1.15	15.0	35	85.5	8.3-7.4/3.7	03
	1800	200	182JM	DJ3P2HM	$598	DS-3POP	1.15	16.0	50	89.5	8.8	
	1800	208-230/460	182JM	DJ3P2DM	$598	DS-3POP	1.15	16.0	50	89.5	8.3-7.7/3.8	03
	1200	208-230/460	213JM	DJ3P3DM	$941	DS-3POP	1.15	18.0	90	88.5	9.4-8.9/4.4	03
5	3600	200	182JM	DJ5E1HM	$718	DS-3FPO	1.15	17.0	50	85.5	14.8	NNP,LA
	3600	200	182JM	DJ5P1HM	$620	DS-3POP	1.15	16.0	50	88.5	14.1	
	3600	208-230/460	182JM	DJ5P1DM	$620	DS-3POP	1.15	16.0	50	87.5	13.8-12.5/6.2	03
	1800	200	184JM	DJ5P2HM	$645	DS-3POP	1.15	16.0	60	89.5	14.2	
	1800	208-230/460	184JM	DJ5P2DM	$645	DS-3POP	1.15	16.0	60	89.5	13.7-12.4/6.2	03
	1800	575	184JM	DJ5P2GM	$645	DS-3POP	1.15	16.0	60	89.5	4.9	
	1200	208-230/460	215JM	DJ5P3DM	$1,234	DS-3POP	1.15	19.0	105	89.5	15.2-14.5/7.3	03
7 1/2	3600	208-230/460	184JM	DJ7P1DM	$968	DS-3POP	1.15	16.0	60	88.5	20.3-18.1/9.1	03
	1800	200	213JM	DJ7P2HM	$943	DS-3POP	1.15	18.0	90	91.0	21.4	
	1800	208-230/460	213JM	DJ7P2DM	$943	DS-3POP	1.15	18.0	90	91.0	20.2-18.5/9.3	03
	1800	575	213JM	DJ7P2GM	$943	DS-3POP	1.15	18.0	90	91.0	7.3	

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 16 Motors marked 208-230/460 volts may not meet all NEMA®† (MG-1) performance standards when operated at 208 volts

Note LA Limited Availability

Note NNP Non-NEMA®† Premium

Special Application Close Coupled Pump Three Phase Open Drip Proof (ODP) NEMA®† Premium Efficient

(continued)



DE1

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
10	3600	200	213JM	DJ10P1HM	$1,132	DS-3POP	1.15	18.0	90	90.2	28	
	3600	208-230/460	213JM	DJ10P1DM	$1,132	DS-3POP	1.15	18.0	90	90.2	27.1-24.3/12.2	03
	3600	575	213JM	DJ10E1GM	$1,076	DS-3FPO	1.15	18.0	113	88.5	10.2	NNP,LA
	3600	575	213JM	DJ10P1GM	$1,132	DS-3POP	1.15	18.0	90	90.2	9.7	
	1800	200	215JM	DJ10P2HM	$1,147	DS-3POP	1.15	19.0	105	91.7	28.1	
	1800	208-230/460	215JM	DJ10P2DM	$1,147	DS-3POP	1.15	19.0	105	92.4	26.3-23.8/11.9	03
15	3600	208-230/460	215JM	DJ15P1DM	$1,555	DS-3POP	1.15	19.0	105	90.2	40-36/18	03
	1800	230/460	254JM	DJ15P2EM	$1,712	DS-3POP	1.15	21.1	150	93.0	37/18.3	03
20	3600	230/460	254JM	DJ20P1EM	$1,874	DS-3POP	1.15	21.1	150	91.7	46/23.1	03
	3600	575	254JM	DJ20E1GM	$1,611	DS-3FPO	1.15	24.0	170	90.2	18.9	NNP,LA
	3600	575	254JM	DJ20P1GM	$1,874	DS-3POP	1.15	21.1	150	91.0	18.7	
	1800	230/460	256JM	DJ20P2EM	$1,970	DS-3POP	1.15	22.4	160	93.0	47/23.6	03
25	3600	230/460	256JM	DJ25P1EM	$2,567	DS-3POP	1.15	22.4	160	91.7	57/28.7	03
	1800	208-230/460	284JM	DJ25P2DM	$2,435	DS-3POP	1.15	26.0	225	93.6	58/29	03
30	3600	208-230/460	284JM	DJ30P1DM	$2,901	DS-3POP	1.15	26.0	225	92.4	79-68/34	03
	1800	208-230/460	286JM	DJ30P2DM	$2,892	DS-3POP	1.15	26.0	250	94.1	77-69/34	03
40	3600	208-230/460	286JM	DJ40P1DM	$3,171	DS-3POP	1.15	26.0	250	93.0	104-90/45	03
	3600	575	286JM	DJ40P1GM	$3,171	DS-3POP	1.15	26.0	250	93.0	36	
	1800	208-230/460	324JM	DJ40P2DM	$3,178	DS-3POP	1.15	28.0	385	94.1	102-91/46	03
50	3600	208-230/460	324JM	DJ50P1DM	$3,567	DS-3POP	1.15	28.0	385	93.0	130-117/59	03
	1800	208-230/460	326JM	DJ50P2DM	$3,725	DS-3POP	1.15	28.0	460	94.5	126-113/56	03
60	3600	208-230/460	326JM	DJ60P1DM	$4,916	DS-3POP	1.15	28.0	460	93.6	152-134/67	03

JM Shaft - Footless

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1	1800	208-230/460	143JM	DJ1P2DU	$570	DS-3POV	1.15	16.0	30	85.5	3.2-3.1/1.6	03
1 1/2	1800	208-230/460	145JM	DJ32P2DU	$581	DS-3POV	1.15	16.0	35	86.5	4.4-4.2/2.1	03
2	1800	208-230/460	145JM	DJ2P2DU	$642	DS-3POV	1.15	16.0	35	86.5	5.9-5.6/2.8	03
3	1800	208-230/460	182JM	DJ3P2DU	$758	DS-3POV	1.15	17.0	50	89.5	8.3-7.7/3.8	03
5	1800	208-230/460	184JM	DJ5P2DU	$898	DS-3POV	1.15	17.0	82	89.5	13.7-12.4/6.2	03
7 1/2	1800	208-230/460	213JM	DJ7P2DU	$1,188	DS-3POV	1.15	19.0	90	91.0	20.2-18.5/9.3	03
10	3600	208-230/460	213JM	DJ10P1DU	$1,420	DS-3POV	1.15	19.0	90	90.2	27.1-24.3/12.2	03
	1800	208-230/460	215JM	DJ10P2DU	$1,400	DS-3POV	1.15	19.0	105	91.7	26.3-23.8/11.9	03
15	3600	208-230/460	215JM	DJ15P1DU	$1,809	DS-3POV	1.15	19.0	105	90.2	40-36/18	03
	1800	230/460	254JM	DJ15P2EU	$2,055	DS-3POV	1.15	21.9	150	93.0	37/18.3	
20	3600	230/460	254JM	DJ20P1EU	$2,249	DS-3POV	1.15	25.5	150	91.7	46/23.1	03

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate
Note LA Limited Availability
Note NNP Non-NEMA® Premium

Special Application Close Coupled Pump Three Phase Open Drip Proof (ODP) NEMA®† Premium Efficient

(continued)



DE1

JP Shaft - Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1	1800	208-230/460	143JP	DJ1P2DP	$487	DS-3POP	1.15	18.0	30	85.5	3.2-3.1/1.6	03
1 1/2	1800	208-230/460	145JP	DJ32P2DP	$513	DS-3POP	1.15	18.0	35	86.5	4.4-4.2/2.1	03
2	1800	208-230/460	145JP	DJ2P2DP	$563	DS-3POP	1.15	18.0	35	86.5	5.9-5.6/2.8	03
3	1800	208-230/460	182JP	DJ3P2DP	$598	DS-3POP	1.15	19.0	50	89.5	8.3-7.7/3.8	03
5	1800	208-230/460	184JP	DJ5P2DP	$645	DS-3POP	1.15	19.0	60	89.5	13.7-12.4/6.2	03
7 1/2	1800	208-230/460	213JP	DJ7P2DP	$943	DS-3POP	1.15	22.0	90	91.0	20.2-18.5/9.3	03
	1200	230/460	254JP	DJ7P3EP	$1,565	DS-3POP	1.15	24.0	150	91.0	18.9/9.5	03
10	3600	208-230/460	213JP	DJ10P1DP	$1,132	DS-3POP	1.15	22.0	90	90.2	27.1-24.3/12.2	03
	1800	208-230/460	215JP	DJ10P2DP	$1,147	DS-3POP	1.15	23.0	105	91.7	26.3-23.8/11.9	03
	1200	230/460	256JP	DJ10P3EP	$2,036	DS-3POP	1.15	25.3	160	91.7	25/12.5	03
15	3600	200	215JP	DJ15P1HP	$1,555	DS-3POP	1.15	23.0	105	90.2	41	
	3600	208-230/460	215JP	DJ15P1DP	$1,555	DS-3POP	1.15	23.0	105	90.2	40-36/18	03
	1800	200	254JP	DJ15P2HP	$1,569	DS-3POP	1.15	27.4	150	93.0	42	
	1800	230/460	254JP	DJ15P2EP	$1,569	DS-3POP	1.15	24.0	150	93.0	37/18.3	03
20	3600	230/460	254JP	DJ20P1EP	$1,882	DS-3POP	1.15	24.0	150	91.7	46/23.1	03
	3600	200	254JP	DJ20P1HP	$1,882	DS-3POP	1.15	24.0	150	91.7	53	
	1800	230/460	256JP	DJ20P2EP	$2,012	DS-3POP	1.15	25.3	160	93.0	47/23.6	03
	1800	200	256JP	DJ20P2HP	$2,012	DS-3POP	1.15	25.3	160	93.0	54	
25	3600	230/460	256JP	DJ25P1EP	$2,461	DS-3POP	1.15	25.3	160	91.7	57/28.7	03
	3600	200	256JP	DJ25P1HP	$2,461	DS-3POP	1.15	25.3	160	91.7	67	
	1800	575	284JP	DJ25E2GP	$2,406	DS-3FPO	1.15	29.0	213	91.7	24.4	NNP,LA
	1800	575	284JP	DJ25P2GP	$2,435	DS-3POP	1.15	29.0	225	93.6	23.1	
	1800	575	284JP	DJ25P2GP	$2,435	DS-3POP	1.15	29.0	225	93.6	23.1	
30	3600	208-230/460	284JP	DJ30P1DP	$2,901	DS-3POP	1.15	29.0	225	92.4	79-68/34	03
	1800	208-230/460	286JP	DJ30P2DP	$2,892	DS-3POP	1.15	29.0	250	94.1	77-69/34	03
40	3600	208-230/460	286JP	DJ40P1DP	$3,171	DS-3POP	1.15	29.0	250	93.0	104-90/45	03
	3600	575	286JP	DJ40E1GP	$3,512	DS-3FPO	1.15	29.0	320	93.0	36	NNP,LA
	3600	575	286JP	DJ40P1GP	$3,171	DS-3POP	1.15	29.0	250	93.0	36	
	1800	208-230/460	324JP	DJ40P2DP	$3,178	DS-3POP	1.15	30.0	454	94.1	102-91/46	03
50	3600	208-230/460	324JP	DJ50P1DP	$3,567	DS-3POP	1.15	30.0	454	93.0	130-117/59	03
	1800	208-230/460	326JP	DJ50P2DP	$3,725	DS-3POP	1.15	30.0	454	94.5	126-113/56	03
60	3600	208-230/460	326JP	DJ60P1DP	$4,915	DS-3POP	1.15	30.0	460	93.6	152-134/67	03

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 06 Dual voltage ratings, Part Winding Start on low voltage only

Note 16 Motors marked 208-230/460 volts may not meet all NEMA® (MG-1) performance standards when operated at 208 volts

Note LA Limited Availability

Note NNP Non-NEMA® Premium

Special Application Close Coupled Pump Three Phase Open Drip Proof (ODP) NEMA®† Premium Efficient

(continued)



NEMA Premium

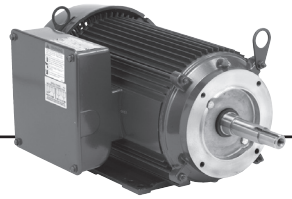
DE1

Westcoast Shaft - Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
7 1/2	1800	208-230/460	213TCZ	DJ7P2DJ	$943	DS-3POP	1.15	21.0	90	91.0	20.2-18.5/9.3	03
10	3600	208-230/460	213TCZ	DJ10P1DJ	$1,132	DS-3POP	1.15	21.0	90	90.2	27.1-24.3/12.2	03
	1800	208-230/460	215TCZ	DJ10P2DJ	$1,147	DS-3POP	1.15	22.0	105	91.7	26.3-23.8/11.9	03
15	3600	208-230/460	215TCZ	DJ15P1DJ	$1,555	DS-3POP	1.15	22.0	105	90.2	40-36/18	03

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Special Application Close Coupled Pump
Single Phase, Totally Enclosed Fan Cooled (TEFC)



APPLICATIONS:

For the specific requirements of centrifugal pumps where the pump impeller is mounted directly on the motor shaft. Used where dirt and moisture are minimal.

FEATURES:

- Class F Insulation
- Extruded Aluminum Frame
- Oversized Ball Bearings w/Locked Shaft End Construction
- Reversible Rotation
- F1 Assembly Position
- Aluminum End Shields with Steel Bearing Inserts
- Shaft Slinger On Pulley End For IP54 Protection
- Lifting Provisions
- "JM" Shaft For Mechanical Seal, "JP" Shaft for Packing Seal

JM Shaft - Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
3	3600	115/230	184JM	UJ3C1P18M	$1,042	DS-3PT	1.15	20.3	82	32.0/16.0	18
	1800	115/230	184JM	UJ3C2P18M	$872	DS-3PT	1.15	20.3	80	30.0/15.0	18
5	3600	230	184JM	UJ5C1K18M	$1,259	DS-3PT	1.15	20.3	80	19.6	18
	1800	230	215JM	UJ5C2K21M	$1,181	DS-3PT	1.15	22.3	90	23.0	18
7 1/2	3600	230	215JM	UJ7C1K21M	$1,487	DS-3PT	1.15	22.3	133	30.3	18
	1800	230	215JM	UJ7C2K21M	$1,282	DS-3PT	1.15	22.3	210	33.5	18
10	3600	230	215JM	UJ10C1K21M	$1,813	DS-3PT	1.15	22.3	210	40.0	18
	1800	230	215JM	UJ10C2K21M	$1,694	DS-3PT	1.15	22.3	210	43.0	18

JP Shaft - Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
3	1800	115/230	184JP	UJ3C2P18P	$872	DS-3PT	1.15	23.3	80	30.0/15.0	18
5	3600	230	184JP	UJ5C1K18P	$1,259	DS-3PT	1.15	23.3	80	19.6	18
	1800	230	215JP	UJ5C2K21P	$1,181	DS-3PT	1.15	26.2	90	23.0	18
7 1/2	3600	230	215JP	UJ7C1K21P	$1,487	DS-3PT	1.15	26.2	180	30.3	18
	1800	230	215JP	UJ7C2K21P	$1,282	DS-3PT	1.15	26.2	120	33.5	18
10	3600	230	215JP	UJ10C1K21P	$1,813	DS-3PT	1.15	26.2	145	40.0	18
	1800	230	215JP	UJ10C2K21P	$1,694	DS-3PT	1.15	26.2	140	43.0	18

Note 18 Incorporates Run Capacitor

Special Application Close Coupled Pump Single Phase Open Drip Proof (ODP)



APPLICATIONS:

For the specific requirements of centrifugal pumps where the pump impeller is mounted directly on the motor shaft. Used where dirt and moisture are minimal.

FEATURES:

- Class F Insulation
- Rolled Steel Frame
- Oversized Ball Bearings w/Locked Shaft End Construction
- Reversible
- F1 Assembly Position
- Shaft Slinger On Pulley End
- Lifting Provisions 180 Frame & Up
- "JM" Shaft For Mechanical Seal, "JP" Shaft for Packing Seal
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

JM Shaft - Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1	1800	115/208-230	143JM	EJM104B	$498	DS-3PO	1.15	13.8	33	14.2/7.2-7.1	25
1 1/2	1800	115/208-230	145JM	EJM154B	$589	DS-3PO	1.15	13.8	34	16.0/8.3-8.0	18,25
2	3600	115/208-230	145JM	EJM202B	$656	DS-3PO	1.15	14.6	35	19.6/10.7-9.8	18,25
	1800	115/230	182JM	DJ2C2P18M	$711	DS-3PO	1.15	17.5	70	23.2/11.6	18
3	3600	115/230	182JM	DJ3C1P18M	$786	DS-3PO	1.15	19.6	81	16.0/32.0	18
	3600	208-230	182JM	EJM302B	$707	DS-3PO	1.15	15.3	40	14.0-13.2	18,25
	1800	115/230	184JM	DJ3C2P18M	$716	DS-3PO	1.15	17.5	66	38.0/19.0	18
5	3600	208-230	184JM	EJM502B	$747	DS-3PO	1.15	16.3	45	24.0-23.7	18,25
	3600	230	184JM	DJ5C1K18M	$945	DS-3PO	1.15	19.6	82	19.6	18
	1800	230	184JM	DJ5C2K18M	$904	DS-3PO	1.15	19.6	86	22.0	18
	1800	230	213JM	DJ5C2K21M	$1,087	DS-3PO	1.15	20.5	105	22.0	25
7 1/2	3600	230	184JM	DJ7C1K18M	$1,135	DS-3PO	1.15	19.6	83	31.4	18,25
	3600	230	213JM	DJ7C1K21M	$1,364	DS-3PO	1.15	20.5	141	30.4	25
	1800	230	215JM	DJ7C2K21M	$1,161	DS-3PO	1.15	22.0	110	35.6	25
10	3600	230	215JM	DJ10C1K21M	$1,601	DS-3PO	1.15	22.0	173	40.0	25
	1800	230	215JM	DJ10C2K21M	$1,476	DS-3PO	1.15	22.0	115	42.2	25

JP Shaft - Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
3	1800	115/230	184JP	DJ3C2P18P	$716	DS-3PO	1.15	20.6	66	38.0/19.0	
5	3600	230	184JP	DJ5C1K18P	$945	DS-3PO	1.15	22.7	82	19.6	18
7 1/2	3600	230	213JP	DJ7C1K21P	$1,364	DS-3PO	1.15	24.5	141	30.4	25
10	3600	230	215JP	DJ10C1K21P	$1,601	DS-3PO	1.15	26.0	173	40.0	25
	1800	230	215JP	DJ10C2K21P	$1,476	DS-3PO	1.15	26.0	115	42.2	25

Note 18 Incorporates Run Capacitor
Note 25 Non-protected

Fire Pump Motors

Horsepower: 7.5 – 250 HP

Phase: Three Phase

RPM: 1800 and 3600 RPM

Voltage:
- 575
- 208-230/460
- 200/400
- 230/460 Volts

Efficiency: Energy Efficient

Enclosure:
- Open Drip Proof (ODP)

Mounting:
- Footed and Footless
- Vertical and Horizontal

Vertical Shaft Type:
JP Close Coupled Pump Mounting



Special Application Three Phase, Open Drip Proof (ODP) UL®† Listed for Fire Pump Applications



R, D, FD, FR

APPLICATIONS:

For fire pump applications per NFPA®† 20 where contaminants are minimal.

FEATURES:

- Class F Insulation, Class B Rise At Service Factor
- Rolled Steel Frame 250-360, Cast Iron Frame 400-440
- Aluminum End Shields 250, Cast Iron End Shields 280-440
- Premasked Mylar Nameplate 250-320, Stainless Steel 360-440 Frame
- 40°C Ambient, NEMA® Design B Performance On 60 Hertz Sine Wave Power
- Regreasable Bearings 180 Frame & Larger
- Double Shielded Bearings 250-400, Open On 440 Frame
- Lifting Provisions 210 Frame & Larger
- Suitable For Wye-Delta Start 250 Frame & Larger
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- 230/460 & 575 Volt Ratings Comply With NRCan Standards
- 230/460 Volt Ratings Dual Plated for either 190/380 Volt or 200/400 Volt 50 Hertz, Next Lower Horsepower
- Oversized Connection Diagram
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
20	3600	200/400	254T	FF20E1X	$1,724	DS-3FFP	1.15	22.6	150	90.2	54/26.9	
	3600	208-230/460	254T	FF20E1A	$1,724	DS-3FFP	1.15	22.6	162	90.2	54-47/23.6	
	1800	200/400	256T	FF20E2X	$1,934	DS-3FFP	1.15	23.2	160	91.0	58/29.1	17
	1800	208-230/460	256T	FF20E2A	$1,934	DS-3FFP	1.15	23.2	160	91.0	54-50/24.9	
25	3600	200/400	256T	FF25E1X	$2,252	DS-3FFP	1.15	23.2	160	91.0	67/33	
	3600	208-230/460	256T	FF25E1A	$2,252	DS-3FFP	1.15	23.2	172	91.0	66-58/29	
	1800	200/400	284TS	FF25E2XS	$2,341	DS-3FFP	1.15	23.5	300	91.7	70/35	
	1800	230/460	284TS	FF25E2ES	$2,341	DS-3FFP	1.15	23.0	225	91.7	61/31	
30	3600	200/400	284TS	FF30E1XS	$2,654	DS-3FFP	1.15	23.5	300	92.4	78/39	
	3600	230/460	284TS	FF30E1ES	$2,654	DS-3FFP	1.15	23.0	225	91.0	69/34	
	3000	380	286TS	FF30E1ZS	$2,654	DS-3FFP	1.15	23.5	250	91.3	43	
	1800	200/400	286TS	FF30E2XS	$2,780	DS-3FFP	1.15	23.5	350	93.6	79/40	
	1800	208-230/460	286TS	FF30E2AS	$2,780	DS-3FFP	1.15	23.5	337	92.4	78-71/35	
40	3600	200/400	286TS	FF40E1XS	$2,902	DS-3FFP	1.15	23.5	350	91.7	106/53	
	3600	230/460	286TS	FF40E1ES	$2,902	DS-3FFP	1.15	23.5	325	93.0	90/45	
	3000	380	324TS	FF40E1ZS	$2,902	DS-3FFP	1.15	25.8	385	92.0	56	
	3600	575	286TS	FF40E1GS	$2,902	DS-3FFP	1.15	23.5	325	93.0	36	38
	1800	200/400	324TS	FF40E2XS	$3,225	DS-3FFP	1.15	25.8	385	93.6	105/53	02
	1800	208-230/460	324TS	FF40E2AS	$3,225	DS-3FFP	1.15	25.8	416	93.6	102-91/46	
	1800	575	324TS	FF40E2GS	$3,225	DS-3FFP	1.15	25.8	416	93.0	37	38
50	3600	200/400	324TS	FF50E1XS	$3,448	DS-3FFP	1.15	25.8	385	93.0	134/67	02
	3600	208-230/460	324TS	FF50E1AS	$3,448	DS-3FFP	1.15	25.8	416	92.4	129-116/58	
	3000	380	326TS	FF50E1ZS	$3,448	DS-3FFP	1.15	25.8	460	92.5	68	
	3600	575	324TS	FF50E1GS	$3,448	DS-3FFP	1.15	25.8	416	92.4	46	38
	1800	208-230/460	326TS	FF50E2AS	$3,779	DS-3FFP	1.15	25.8	446	93.6	128-114/57	
	1800	575	326TS	FF50E2GS	$3,779	DS-3FFP	1.15	25.8	446	93.0	46	38
60	3600	200/400	326TS	FF60E1XS	$4,752	DS-3FFP	1.15	25.8	415	93.0	156/78	02
	3600	230/460	326TS	FF60E1DS	$4,752	DS-3FFP	1.15	25.3	275	93.0	132.0/66.0	
	3000	380	326TS	FF60E1ZS	$4,752	DS-3FFP	1.15	25.8	460	92.9	82	
	3600	575	326TS	FF60E1GS	$4,752	DS-3FFP	1.15	25.8	446	93.0	54	38
	1800	200/400	364TS	FF60E2XS	$5,197	DS-3FFP	1.15	26.6	580	94.1	159/80	
	1800	230/460	364TS	FF60E2ES	$4,752	DS-3FFP	1.15	26.5	480	93.6	143/72	
	1800	575	364TS	FF60E2GS	$5,197	DS-3FFP	1.15	26.6	580	94.1	55	38

Note 02 Suitable for Wye-Delta start on voltages shown
Note 17 Twelve leads for across-the-line or wye-delta start on either voltage, part winding start on lower voltage
Note 38 Q-6 Leads for across-the-line or wye-delta start

Special Application Three Phase, Open Drip Proof (ODP) UL®† Listed for Fire Pump Applications

(continued)

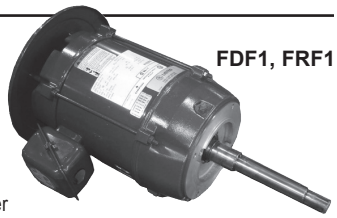


R, D, FD, FR

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
75	3600	200/400	364TS	FF75E1XS	$6,255	DS-3FFP	1.15	26.6	580	93.0	200/100	
	3600	230/460	364TS	FF75E1ES	$6,255	DS-3FFP	1.15	26.6	611	94.1	171/85	
	3000	380	364TS	FF75E1ZS	$6,255	DS-3FFP	1.15	26.5	525	93.2	102	
	3600	575	364TS	FF75E1GS	$6,255	DS-3FFP	1.15	26.6	580	94.1	68	38
	1800	200/400	365TS	FF75E2XS	$6,154	DS-3FFP	1.15	27.6	600	94.1	199/99	
	1800	230/460	365TS	FF75E2ES	$6,154	DS-3FFP	1.15	28.5	500	94.1	178/89	
	1800	575	365TS	FF75E2GS	$6,154	DS-3FFP	1.15	27.6	600	95.0	70	38
100	3600	200/400	365TS	FF100E1XS	$7,255	DS-3FFP	1.15	28.0	600	93.0	260/130	
	3600	230/460	365TS	FF100E1ES	$7,255	DS-3FFP	1.15	28.5	480	93.0	228/114	
	3000	380	365TS	FF100E1ZS	$7,255	DS-3FFP	1.15	28.5	595	93.8	135	
	3600	575	365TS	FF100E1GS	$7,255	DS-3FFP	1.15	28.0	631	94.1	89	38
	1800	200/400	404TS	FF100E2XS	$7,333	DS-3FFP	1.15	29.5	750	94.5	261/130	47
	1800	230/460	404TS	FF100E2BS	$7,333	DS-3FFP	1.15	29.5	885	94.5	226/113	47
	1800	575	404TS	FF100E2GS	$7,333	DS-3FFP	1.15	29.5	750	95.0	90	38
125	3600	460	404TS	FF125E1CS	$9,717	DS-3FFP	1.15	29.5	815	94.1	137	47
	3000	380	405TS	FF125E1ZS	$9,717	DS-3FFP	1.15	31.0	800	94.1	166	
	3600	575	404TS	FF125E1GS	$9,717	DS-3FFP	1.15	29.5	750	94.1	110	38
	1800	460	405TS	FF125E2CS	$9,758	DS-3FFP	1.15	31.1	813	95.0	140	47
	1800	575	405TS	FF125E2GS	$9,758	DS-3FFP	1.15	31.1	813	95.0	112	38
150	3600	460	405TS	FF150E1CS	$11,990	DS-3FFP	1.15	31.0	763	93.6	165	47
	3000	380	444TS	FF150E1ZS	$11,990	DS-3FFP	1.15	36.1	1100	94.3	206	
	3600	575	405TS	FF150E1GS	$11,990	DS-3FFP	1.15	31.0	813	93.6	132	38
	1800	460/380	444TS	FF150E2FS	$12,757	DS-3FFP	1.15	36.1	1100	95.0	171	47
	1800	575	444TS	FF150E2GS	$12,757	DS-3FFP	1.15	36.1	1100	95.0	136	38
200	3600	460/380	444TS	FF200E1FS	$15,532	DS-3FFP	1.15	36.1	1100	94.5	225	47
	3000	380	445TS	FF200E1ZS	$15,532	DS-3FFP	1.15	36.1	1200	94.8	269	
	3600	575	444TS	FF200E1GS	$15,532	DS-3FFP	1.15	36.1	1100	94.5	180	38
	1800	460/380	445TS	FF200E2FS	$15,945	DS-3FFP	1.15	36.1	1200	95.0	230	47
	1800	575	445TS	FF200E2GS	$15,945	DS-3FFP	1.15	36.1	1200	95.0	189	38
250	3600	460	445TS	FF250E1FS	$20,473	DS-3FFP	1.15	36.1	1200	94.5	276	38
	3000	380	447TS	FF250E1ZS	$20,473	DS-3FFP	1.15	39.5	1700	95.0	331	
	1800	460/380	445TS	FF250E2FFS	$18,025	DS-3FFP	1.15	36.1	1200	95.4	281	47
	1800	575	445TS	FF250E2GFS	$18,025	DS-3FFP	1.15	36.1	1200	95.4	225	47
300	3600	460/380	445TS	FF300E1FFS	$28,306	DS-3FFP	1.15	36.1	1200	95.0	326	47
	3000	380	447TS	FF300E1ZS	$28,306	DS-3FFP	1.15	39.5	1700	95.0	398	
350	3000	380	447TS	FF350E1ZS	$35,861	DS-3FFP	1.15	39.5	1700	95.0	459	

Note 38 Q-6 Leads for across-the-line or wye-delta start
Note 47 Q-12 leads for across-the-line, wye-delta or part winding start

Special Application Three Phase, Open Drip Proof (ODP) Vertical Close Coupled Pump UL®† Listed for Fire Pump Applications


FDF1, FRF1

APPLICATIONS:

For fire pump applications per NFPA®† 20 where contaminants are minimal.

FEATURES:

- Class F Insulation, Class B Rise At Service Factor
- Rolled Steel Frame
- Aluminum End Shields 250, Cast Iron End Shields 280-360
- Premasked Mylar Nameplate 180-320, Stainless Steel On 360
- 40°C Ambient, NEMA® Design B Performance On 60 Hertz Sine Wave Power
- Regreasable Bearings 180 Frame & Larger
- Double Shielded Bearings
- Lifting Provisions 210 Frame & Larger
- Suitable For Wye-Delta Start 250 Frame & Larger
- Dual Voltage Ratings Suitable For Part Winding Start (PWS) On Low Voltage
- 575 Volt Ratings Comply With NRCan Standards
- Oversized Connection Diagram
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

JP Shaft - Footless

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff	Full Load Amps	Notes
7 1/2	3600	200/400	184JP	FF7E1XV	$1,027	DS-3FFP	1.15	20.1	75	88.5	20.7/10.3	-
	3600	208-230/460	184JP	FF7E1DV	$1,027	DS-3FFP	1.15	20.1	75	87.5	20.4-18.1/9.1	-
10	3600	200/400	213JP	FF10E1XV	$1,283	DS-3FFP	1.15	22.6	90	88.5	28.6/14.3	-
	3600	208-230/460	213JP	FF10E1DV	$1,432	DS-3FFP	1.15	22.6	90	88.5	27.5-25.3/12.6	-
15	3600	200/400	215JP	FF15E1XV	$1,682	DS-3FFP	1.15	24.1	105	89.5	41/20.6	-
	3600	208-230/460	215JP	FF15E1DV	$1,682	DS-3FFP	1.15	24.1	105	89.5	41-36/18.1	-
	3600	575	215JP	FF15E1GV	$1,682	DS-3FFP	1.15	24.1	105	89.5	14.3	-
20	3600	200/400	254JP	FF20E1XV	$2,094	DS-3FFP	1.15	24.8	150	90.2	54/27.1	02
	3600	208-230/460	254JP	FF20E1DV	$2,094	DS-3FFP	1.15	27.6	150	90.2	54-47/23.6	02
	3600	575	254JP	FF20E1GV	$2,094	DS-3FFP	1.15	28.3	150	90.2	18.9	02
25	3600	200/400	256JP	FF25E1XV	$2,721	DS-3FFP	1.15	26.0	160	91.0	66/33	02
	3600	208-230/460	256JP	FF25E1DV	$2,721	DS-3FFP	1.15	28.3	160	91.0	58.0/28.9	02
	3600	575	256JP	FF25E1GV	$2,721	DS-3FFP	1.15	28.3	160	91.0	23.2	02
30	3600	200/400	284JP	FF30E1XV	$4,150	DS-3FFP	1.15	30.1	300	91.0	79/40	02
	3600	230/460	284JP	FF30E1EV	$4,150	DS-3FFP	1.15	30.1	300	91.0	69/34	02
	3600	575	284JP	FF30E1GV	$4,150	DS-3FFP	1.15	30.1	300	91.0	27.5	02
40	3600	200/400	286JP	FF40E1XV	$4,566	DS-3FFP	1.15	30.1	350	91.7	105/53	02
	3600	230/460	286JP	FF40E1EV	$4,566	DS-3FFP	1.15	30.1	350	91.7	91/46	02
	3600	575	286JP	FF40E1GV	$4,566	DS-3FFP	1.15	30.1	350	91.7	37	02
50	3600	200/400	324JP	FF50E1XV	$6,278	DS-3FFP	1.15	31.4	385	93.0	134/67	02
	3600	208-230/460	324JP	FF50E1DV	$6,278	DS-3FFP	1.15	31.4	385	92.4	130-117/59	02
	3600	575	324JP	FF50E1GV	$6,278	DS-3FFP	1.15	31.4	385	92.4	46	02
60	3600	200/400	326JP	FF60E1XV	$7,219	DS-3FFP	1.15	31.4	460	93.0	156	02
	3600	208-230/460	326JP	FF60E1DV	$7,219	DS-3FFP	1.15	31.4	460	93.0	150-132/66	02
	3600	575	326JP	FF60E1GV	$7,219	DS-3FFP	1.15	31.4	460	93.0	54	02
75	3600	230/460	364JP	FF75E1EV	$7,819	DS-3FFP	1.15	32.4	580	93.0	172/86	02
	3600	200/400	364JP	FF75E1XV	$9,415	DS-3FFP	1.15	30.5	580	93.0	199/100	02
	3600	575	364JP	FF75E1GV	$7,819	DS-3FFP	1.15	32.4	580	93.0	69	02
100	3600	230/460	365JP	FF100E1EV	$10,828	DS-3FFP	1.15	30.5	600	93.0	227/113	02
	3600	200/400	365JP	FF100E1XV	$10,828	DS-3FFP	1.15	30.5	600	93.0	260/130	02
	3600	575	365JP	FF100E1GV	$10,828	DS-3FFP	1.15	30.5	600	93.0	91	02

Note 02 Suitable for Wye-Delta start on voltages shown

Pool & Spa Motors

Frame Size: NEMA®† 48 and 56

Horsepower: 1/2 through 60 HP

Phase: Single & Three Phase

RPM: 60 Cycle - 3450 & 3450/1725
50 Cycle - 2850 & 2850/1425

Speeds: Single and Two Speed (Hard & Soft Start) and Variable Speed

Voltage:
- 230/115
- 230
- 208-230/115
- 208-230

Efficiency: Standard and Premium Efficient

Enclosure: Open Drip Proof (ODP), Totally Enclosed Fan Cooled (TEFC) and TEFC IPX5

Mounting:
- Square Flange
- C Flange Threaded
- C Flange Keyed
- Thru-Bolt

Agency: UL®† Recognized and CSA®† Certified

Bearings:
- 56 Frame - Sealed Ball
- 48 Frame - Sealed Ball

Warranty: All Pool and Spa motors have a limited 12 month warranty from the date of install or 24 months from date of manufacturing, whichever comes first.

Exception: Neptune and Aqua Shield Pro motors carry limited warranty of 24 months from the date of installation, not to exceed 36 months from date of manufacture.



Pool & Spa OEM Pump/Motor Replacement Guide
Square Flange and C-Flange Motors

Square Flange and C-Flange Motors

Motors and pumps need to be properly matched to one another to provide consistent, predictable performance. When selecting your NIDEC replacement motor you will need to know six important pieces of information:

1) Pump Mounting (ie. Square Flange, C-Flange, etc.)
2) Horsepower
3) Service Factor
4) Voltage
5) Frequency
6) Phase

Most of this information can be attained from the motor nameplate. Always be sure that the total of horsepower times service factor of your new NIDEC motor is equal to or greater than the total of horsepower times service factor of the original motor.

Total Output HP = (horsepower) X (service factor)
= THP or SFHP

PUMP OEM	BRAND NAME	CATEGORY
Aqua Flo	Ultra Flow	C
Aqua Flo	Dominator	S
Astral	2000 Series	J
Baker Hydro	Hydron	J
Carvin Pool	Cygnet	S
Carvin Pool	Magnum & Magnum Force	J
Hayward	Super Pump	J
Hayward	Super Pump II	J
Hayward	Max-Flo	J
Hayward	Max-Flo II	S
Hayward	NorthStar	N
Hayward	TriStar	T
Jacuzzi Brothers	Bronze	C
Jacuzzi Brothers	Magnum & Magnum Force	J
Jandy/Zodiac	SHPF / SHPM	S
Jandy/Zodiac	JFloPro	S
Jandy/Zodiac	ePump	S
Pentair/Sta-Rite	DuraGlas / Max-E-Glas	S
Pentair/Sta-Rite	DuraGlas II/ Max-E-Glas II	S
Pentair/Letro	Legend	P
Pentair/American	Ultra-Flow	S
Pentair/American	American Eagle	C
Pentair/Pac Fab	Challenger	S
Pentair/Pac Fab	WhisperFlo	S
Pentair/Pac Fab	Hydro Pump	C
Pentair /Purex	Pinnacle	S
Speck Pumps	Models 72,S90,Super Pro, 433, & ES90	J
Waterco	Hydrostorm, Hydrostar	S
Waterway	SVL56, Champion, SMF	S
Zodiac Pool	Polaris Vac-Sweep, PB4 Booster Pump	P

CATEGORY "N" HAYWARD NORTHSTAR C-FLANGE THREADED SHAFT

HP	SERVICE FACTOR	VOLTAGE	ENERGY EFFICIENT EXTREME E® 6.5" Frame
3/4	1.85	208-230/115	ESN1072
1	1.40	208-230/115	EUSN1102
1	1.85	208-230/115	ESN1102
1 1/2	1.25	208-230/115	EUSN1152
1 1/2	1.60	208-230/115	ESN1152
2	1.20	208-230/115	EUSN1202
2	1.35	208-230	ESN1202
3	1.20	208-230	EUSN1302
3	1.60	208-230	ESN1302

CATEGORY "C" NEMA®† C-FLANGE KEYED SHAFT

HP	SERVICE FACTOR	VOLTAGE	STANDARD EFFICIENCY 6.5" FRAME	ENERGY EFFICIENT EXTREME E® 6.5"" Frame
1/2	1.60	230/115	ASB120	ASB656
3/4	1.50	230/115	ASB121	ASB634
1	1.40	230/115	ASB122	ASB653
1.5	1.30	230/115	ASB123	ASB795
2	1.20	230	ASB124	ASB808
3	1.15	208-230		ASB817

CATEGORY"T"HAYWARDTRISTARREPLACEMENTS-SQUAREFLANGE

HP	SERVICE FACTOR	VOLTAGE	STANDARD EFFICIENCY 6.5" FRAME	ENERGY EFFICIENT EXTREME E® 6.5"" Frame
1/2	1.98	208-230/115		ET3205
3/4	1.85	208-230/115		ET3207
3/4	1.25	230/115	ASB852	
1	1.85	208-230/115		ET3210
1	1.25	230/115	ASB853	
1.5	1.60	208-230/115		ET3215
1.5	1.10	230/115	ASB854	
2	1.35	208-230		ET3220
2	1.10	230/115	ASB859	
2.5	1.04	230	ASB840	
3	1.15	208-230	ASB844	

CATEGORY "J" NEMA®† C-FLANGE THREADED SHAFT

HP	SERVICE FACTOR	VOLTAGE	STANDARD EFFICIENCY		ENERGYEFFICIENT EXTREME E®		ENERGY EFFICIENT VARIABLE SPEED
			6.5" FRAME	5.5" FRAME	6.5" FRAME	5.5" FRAME	
1/2	1.60	230/115	ASB126	AST095	ASB657	ACT095	
3/4	1.00	230/115	ASB227	AST095			
	1.50	230/115	ASB127	AST125	ASB638	ACT125	
1	1.00	230/115	ASB228	AST125			NPTT125
	1.40	230/115	ASB128	AST165	ASB654	ACT165	
1.5	1.00	230/115	ASB229	AST165			NPTT165
	1.30	230/115	ASB129	AST225	ASB796		
2	1.00	230/115	ASB230	AST225			NPTT225
	1.20	230	ASB130	AST275	ASB809		
2.5	1.00	230	ASB231	AST275			NPTT270
3	1.15	208-230			ASB818		NPTT345
5	1.00	208-230			ASB819		

CATEGORY "S" SQUARE FLANGE

HP	SERVICE FACTOR	VOLTAGE	STANDARD EFFICIENCY		ENERGYEFFICIENT EXTREME E®		ENERGY EFFICIENT VARIABLE SPEED
			6.5" FRAME	5.5" FRAME	6.5" FRAME	5.5" FRAME	
1/2	1.30	230/115		ASQ065			
	1.90	230/115	ASB846	ASQ095	ASB845	AQC095	
3/4	1.27	230/115	ASB852	ASQ095		AQC095	
	1.65	230/115	ASB847	ASQ125	ASB661	AQC125	
1	1.25	230/115	ASB853	ASQ125		AQC125	NPTQ125
	1.65	230/115	ASB848	ASQ165	ASB841	AQC165	
1.5	1.10	230/115	ASB854	ASQ165		AQC165	NPTQ165
	1.50	230/115	ASB858	ASQ225	ASB842		
2	1.10	230/115	ASB859	ASQ225			NPTQ225
	1.30	230	ASB748	ASQ260	ASB843		
2.5	1.04	230	ASB840	ASQ260			NPTQ270
3	1.15	208-230	ASB844		ASB844		NPTQ345
5	1.00	208-230			ASB850		

CATEGORY "P" POOL CLEANERS

HP	SERVICE FACTOR	VOLTAGE	BRAND	NIDEC 56™ 6.5" Frame
3/4	1.50	230/115	Polaris	ASB625
	1.50	230/115	Letro	ASB668

NEPTUNE® Variable Speed Motor & Control Category "S" & "J" Pool Pump



NEW

WARRANTY 3 YEARS

FEATURES:

- Fully Integrated Variable Speed Motor & Control
- Brushless Permanent Magnet (BPM) Motor
- Proposed DOE Regulation & CEC Title 20 Compliant
- Dual Voltage 1.25THP & 1.65THP Models
- TEFC -- IPX5 Enclosure
- Shaft Threads -- (Square Flange) 1/2-20 UNC-2A or (C-Flange) 7/16-20 UNF-2A
- 50°C Ambient
- Triple Bearing Protection
- 1081 Design
- Continuous Duty
- Class F Insulated
- Sealed Ball Bearings
- 80%+ Motor & Control Efficiency @ Full Speed
- 300 Series Stainless Steel Shaft
- Speed Range: 600-3450 RPM
- Low Temperature Monitor
- Finned Aluminum Enclosure
- Fully Functional User Interface (Back Lit)
- Modbus & Low Voltage Connection to Pool Control Systems
- Up to Seven Daily Schedules Can Be Programmed
- Adjustable Priming Time & Speed
- Menu Keypad Lockout
- Designed For Quiet Operation
- Simple "Drop In" installation with No Complex Wiring
- Factory Programmed Schedule Settings to Meet the Proposed DOE & the CEC Title 20 Regulation
- Ability to communicate with pool control systems
- **Discount Symbol: DS-FPS**

PREMIUM ENERGY EFFICIENT, VARIABLE SPEED, SQUARE FLANGE, CATEGORY "S"

THP	RPM	Voltage	Freq	SF Amps	System Efficiency	Power Factor Corrected	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	List
1.65	600-3450	115/230	50/60	13.6/6.8	81%	Yes	NPTQ165*	48Y	10.66	30	$933
2.25	600-3450	230	50/60	9.5	84%	Yes	NPTQ225*	48Y	10.66	35	$987
2.7	600-3450	230	50/60	11.1	84%	Yes	NPTQ270*	48Y	10.66	35	$1,099
3.45	600-3450	230	50/60	14.0	85%	Yes	NPTQ345*	48Y	10.98	37	$1,255

PREMIUM ENERGY EFFICIENT, VARIABLE SPEED, 56J MOUNTING, CATEGORY "J"

THP	RPM	Voltage	Freq	SF Amps	System Efficiency	Power Factor Corrected	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	List
1.65	600-3450	115/230	50/60	13.6/6.8	81%	Yes	NPTT165*	56J	10.01	30	$933
2.25	600-3450	230	50/60	9.5	84%	Yes	NPTT225*	56J	10.01	35	$987
2.7	600-3450	230	50/60	11.1	84%	Yes	NPTT270*	56J	10.01	35	$1,099
3.45	600-3450	230	50/60	14.0	85%	Yes	NPTT345*	56J	10.01	37	$1,255



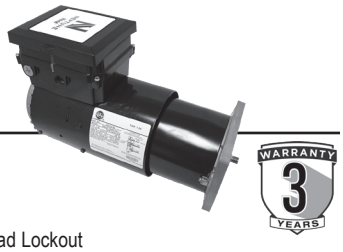
Simple & Intuitive Neptune® User Interface

- **Most Simple Programming: Set the # of Gallons in the customer's pool then set the GPM of the pump at full speed. Then press Start and the Neptune® motor will power the pump to filter the pool in the most energy efficient manner possible.**
- **One touch speed settings closely tie to the 2021 DOE Regulation speed settings: Speed 1 = 1380 RPM, Speed 2 = 1725 RM & Speed 3 = 2760 RPM**
- **One touch Clean button which runs the motor at 3450 RPM for 30 minutes**
- **Up and Down arrows allow for navigation through menu options and allow for one touch +/- 10 RPM speed changes for fine tuning flow rates**
- **LCD screen alternately displays Time of Day and Current Speed then the Current Operation Mode and the tme remaining in this Mode**

* California Energy Commission (CEC) Appliance Regulations (Title 20) and New York Regulation (Title 21) compliant

Note: Contact dealer for full conditions of operation
Catalog numbers are for competitive comparison purposes only.

NEPTUNE® *Hybrid* Variable Speed Motor/Control
Category "S" & "J" Pool Pump



FEATURES:

- Fully Integrated Variable Speed Motor & Control
- Brushless Permanent Magnet (BPM) Motor
- Proposed DOE Regulation & CEC Title 20 Compliant
- Dual Voltage 1.25THP & 1.65THP Models (no output power reduction on low/115 voltage)
- TEFC -- IPX5 Enclosure
- Shaft Threads -- (Square Flange) 1/2-20 UNC-2A or (C-Flange) 7/16-20 UNF-2A
- 50°C Ambient
- Triple Bearing Protection
- 1081 Design
- Continuous Duty
- Class F Insulated
- Sealed Ball Bearings
- 300 Series Stainless Steel Shaft
- Speed Range: 600-2760, 3450 RPM
- Discount Symbol: DS-FPS
- Fully Functional User Interface (Back Lit)
- Connection capability to Pool Control Systems
- Up to Seven Daily Schedules Can Be Programmed
- Adjustable Priming Time & Speed
- Menu Keypad Lockout
- Designed For Quiet Operation
- Low Temperature Monitor
- DOE Default Programming
- Simple "Drop In" installation with No Complex Wiring
- Factory Programmed Schedule Settings to Meet the Proposed DOE & the CEC Title 20 Regulation
- Meets required CEC motor efficiency levels of 80% or higher

Premium Energy Efficient, Variable Speed, Square Flange, Category "S"

THP	RPM	Voltage	Freq	SF Amps	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	List
1.25	600-3450	230/115	50/60	7.8/14.4	NPHQ125*	48Y	11.48	26	$750
1.65	600-2760/3450	230/115	60	8.5/16.0	NPHQ165*	48Y	14.98	36	$793
2.25	600-2760/3450	230	60	10.2	NPHQ225*	48Y	14.98	37	$839

Premium Energy Efficient, Variable Speed, 56J Mounting, Category "J"

THP	RPM	Voltage	Freq	SF Amps	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	List
1.25	600-3450	230/115	50/60	7.8/14.4	NPHT125*	56J	10.7	24	$750
1.65	600-2760/3450	230/115	60	8.5/16.0	NPHT165*	56J	14.07	34	$793
2.25	600-2760/3450	230	60	10.2	NPHT225*	56J	14.07	35	$839



Simple & Intuitive Neptune® User Interface

- **Most Simple Programming: Set the # of Gallons in the customer's pool then set the GPM of the pump at full speed. Then press Start and the Neptune® motor will power the pump to filter the pool in the most energy efficient manner possible.**
- **One touch speed settings closely tie to the 2021 DOE Regulation speed settings: Speed 1 = 1380 RPM, Speed 2 = 1725 RM & Speed 3 = 2760 RPM**
- **One touch Clean button which runs the motor at 3450 RPM for 30 minutes**
- **Up and Down arrows allow for navigation through menu options and allow for one touch +/- 10 RPM speed changes for fine tuning flow rates**
- **LCD screen alternately displays Time of Day and Current Speed then the Current Operation Mode and the tme remaining in this Mode**

* California Energy Commission (CEC) Appliance Regulations (Title 20) and New York Regulation (Title 21) compliant

Note: Contact dealer for full conditions of operation
Catalog numbers are for competitive comparison purposes only.

NEPTUNE® Variable Speed Motor & Control
Thru-Bolt Mount Above Ground Pool Pump



FEATURES:

- Fully Integrated Variable Speed Motor & Control
- Brushless Permanent Magnet (BPM) Motor
- Proposed DOE Regulation & CEC Title 20 Compliant
- TEFC -- IPX5 Enclosure
- Shaft Threads -- 3/8-16 UNC-2A
- 50°C Ambient
- Triple Bearing Protection
- 1081 Design
- Continuous Duty
- Class F Insulated
- Sealed Ball Bearings
- 80%+ Motor & Control Efficiency @ Full Speed
- 300 Series Stainless Steel Shaft
- Speed Range: 600-3450 RPM
- Low Temperature Monitor
- Finned Aluminum Enclosure
- Fully Functional User Interface (Back Lit)
- Modbus & Low Voltage Connection to Pool Control Systems
- Up to Seven Daily Schedules Can Be Programmed
- Adjustable Priming Time & Speed
- Menu Keypad Lockout
- Designed For Quiet Operation
- Simple "Drop In" installation with No Complex Wiring
- Factory Programmed Schedule Settings to Meet the Proposed DOE & the CEC Title 20 Regulation
- Ability to communicate with pool control systems
- **Discount Symbol: DS-FPS**

THP	RPM	Voltage	Freq	SF Amps	System Efficiency	Power Factor Corrected	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	List
1.5	600-3450	115/230	50/60	13.0/6.5	81%	Yes	NPTA150*	48Y	9.40	30	$908



Simple & Intuitive Neptune® User Interface

- **Most Simple Programming: Set the # of Gallons in the customer's pool then set the GPM of the pump at full speed. Then press Start and the Neptune® motor will power the pump to filter the pool in the most energy efficient manner possible.**
- **One touch speed settings closely tie to the 2021 DOE Regulation speed settings: Speed 1 = 1380 RPM, Speed 2 = 1725 RM & Speed 3 = 2760 RPM**
- **One touch Clean button which runs the motor at 3450 RPM for 30 minutes**
- **Up and Down arrows allow for navigation through menu options and allow for one touch +/- 10 RPM speed changes for fine tuning flow rates**
- **LCD screen alternately displays Time of Day and Current Speed then the Current Operation Mode and the tme remaining in this Mode**

* California Energy Commission (CEC) Appliance Regulations (Title 20) and New York Regulation (Title 21) compliant

Note: Contact dealer for full conditions of operation
Catalog numbers are for competitive comparison purposes only.

Premium Efficient Two-Speed Pool and Spa Motors NEW Switchless Design, 6.5" Frame Diameter, Category "S" & "J"



Eliminate the Industry's #1 cause of failure on two-speed motors,
the mechanical switch, with these switchless premium efficient two-speed motors

FEATURES:

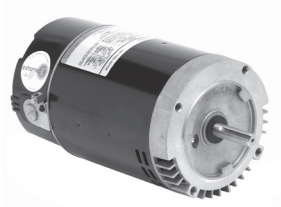
- Two Compartment
- Shaft Threads – (Square Flange) 1/2-20 UNC-2A or (C-Flange) 7/16-20 UNF-2A
- 50°C Ambient
- 1081 Design
- Continuous Duty
- Open Dripproof
- Class B Insulated
- 300 Series Stainless Steel Shaft
- Thermally Protected
- **Discount symbol: DS-FPS**

SUPERIOR MOISTURE RESISTANCE
AQUA-SHIELD
BUILT TO LAST

- Optimized internal airflow design minimizes heat and moisture buildup inside the motor
- Internal bearing cover protects the drive/pump end ball bearing from water and debris that may occur inside of the motor
- Three additional layers of drive/pump end bearing protection:
  - Double Sealed Ball Bearing
  - Lip Seal
  - Water Slinger

extreme-E Square Flange, Premium Energy Efficient, Total Horsepower Rated, Category "S"

THP	RPM	Voltage	Freq	SF Amps	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	List
1.25/0.20	3450/1725	230	60	5.8/1.2	ASB2980	56Y	12.99	27	$433
1.65/0.26	3450/1725	230	60	7.4/1.4	ASB2982	56Y	13.24	29	$445
2.25/0.38	3450/1725	230	60	9.2/2.1	ASB2983	56Y	13.74	31	$507
2.60/0.43	3450/1725	230	60	10.6/2.4	ASB2984	56Y	14.24	36	$618



extreme-E C-Flange, Premium Energy Efficient, Total Horsepower Rated, Category "J"

THP	RPM	Voltage	Freq	Max Pump SF Amps	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	List
1.25/0.17	3450/1725	230	60	5.8/1.2	ASB2973H	56J	12.01	27	$431
1.65/0.20	3450/1725	230	60	7.4/1.3	ASB2975	56J	12.01	29	$443
2.25/0.30	3450/1725	230	60	9.2/2.1	ASB2977	56J	12.51	31	$505
2.60/0.33	3450/1725	230	60	10.6/2.4	ASB2979	56J	12.51	36	$616

NOTE: Toggle switch cover assembly available for two speed models - LO-OFF-HI- X2975769700000L

Contact dealer for full conditions of operation
Catalog numbers are for competitive comparison purposes only.

extreme-E Extreme-E® represents one of our most efficient running, highest performing lines of motors.

AQUA-SHIELD PRO®
Totally Enclosed Fan Cooled Pool and Spa Motors Switchless Design, Finned Aluminum Frame, 5.5" Frame Diameter, Category “S” & “J”



What benefits does the Aqua-Shield PRO®'s IPX5 enclosure provide your customers? First, the aluminum fin construction provides additional corrosion resistance and helps dissipate heat which promotes cooler running motors. Second, this product line of motors is designed and tested and is protected against low pressure water jets hitting the motor from any direction. This motor prevents the intrusion of moisture from getting inside the motor near the electrical components and this helps reduce winding failures even in the most extreme environments. If your customers have pumps and motors operating in wet, humid environments, the AQUA-SHIELD PRO® pump motor is what you need.



FEATURES:

- Shaft Threads – (Square Flange) 1/2-20 UNC-2A or (C-Flange) 7/16-20 UNF-2A
- 50°C Ambient
- 1081 Design
- Continuous Duty
- Class F Insulated
- Totally Enclosed, Fan Cooled, IPX5 Enclosure
- 300 Series Stainless Steel Shaft
- Thermally Protected
- 5.5” Diameter Frame
- Triple Bearing Protection
- Finned Aluminum Frame
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- **Discount Symbol: DS-FPS**

extreme-E Square Flange, Premium Energy Efficient, Total Horsepower Rated, Category “S”

THP	RPM	Voltage	Freq	SF Amps	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	List
1.25	3450	208-230/115	60	5.9-5.5/11.0	TEQ125	48Y	12.10	26.5	$314
1.65	3450	208-230/115	60	8.1-7.2/14.4	TEQ165	48Y	13.10	29.5	$341
2.25	3450	208-230/115	60	10.5-9.4/18.8	TEQ225	48Y	13.10	31.5	$435
2.70	3450	208-230	60	11.6-10.5	TEQ270	48Y	13.10	28	$522
3.45	3450	208-230	60	15.2-14.9	TEQ345	48Y	13.15	34	$659

extreme-E C-Flange, Premium Energy Efficient, Total Horsepower Rated, Category “J”

THP	RPM	Voltage	Freq	SF Amps	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	List
1.25	3450	208-230/115	60	5.9-5.5/11.0	TET125	56J	12.84	26.5	$305
1.65	3450	208-230/115	60	8.1-7.2/14.4	TET165	56J	12.84	29	$330
2.25	3450	208-230/115	60	10.5-9.4/18.8	TET225	56J	12.84	31	$424
2.75	3450	208-230	60	11.6-10.5	TET275	56J	12.84	28	$505
3.45	3450	208-230	60	15.2-14.9	TET345	56J	13.41	34	$640

Note: Contact dealer for full conditions of operation
Catalog numbers are for competitive comparison purposes only.

extreme-E Extreme-E® represents one of our most efficient running, highest performing lines of motors.

AQUA-SHIELD® EZ48® Square Flange Pool and Spa Motors Switch Design, 5.5" Frame Diameter: Category "S"



FEATURES:

- Two Compartment
- Shaft Threads - 1/2-20 UNF-2A
- 50°C Ambient
- Triple Bearing Protection
- 1081 Design
- Continuous Duty
- Open Dripproof
- Sealed Ball Bearings
- Thermally Protected
- Class B Insulated
- 300 Series Stainless Steel Shaft
- Voltage Selection Device (Dual Voltage Only)
- **Discount symbol: DS-FPS**



- Optimized internal airflow design minimizes heat and moisture buildup inside the motor
- Internal bearing cover protects the drive/pump end ball bearing from water and debris that may occur inside of the motor
- Three additional layers of drive/pump end bearing protection:
  - Double Sealed Ball Bearing
  - Lip Seal
  - Water Slinger

Standard Efficient, Total Horsepower Rated

THP	RPM	Voltage	Freq	Amps	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	List
0.65	3450	230/115	60	4.1/8.2	ASQ065	48Y	11.80	15	$232
0.95	3450	230 /115	60	5.5/11.0	ASQ095	48Y	12.05	16	$243
1.25	3450	230 /115	60	7.0/14.0	ASQ125	48Y	13.05	21	$276
1.65	3450	230 /115	60	9.0/18.0	ASQ165	48Y	13.05	25	$321
2.25	3450	230 /115	60	9.5/19.0	ASQ225▲	48Y	13.30	28	$415
2.25	3450	230	60	9.5	ASQ225H▲	48Y	13.30	28	$415
2.60	3450	230	60	11.2	ASQ260▲	48Y	13.30	30	$513

High Efficiency, Total Horsepower Rated

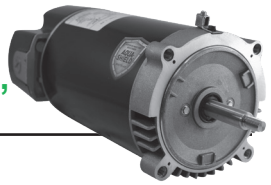
THP	RPM	Voltage	Freq	SF Amps	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	List
0.95	3450	230 /115	60	4.6/9.2	AQC095	48Y	12.60	18	$292
1.25	3450	230 /115	60	5.7/11.4	AQC125▲	48Y	12.80	24	$321
1.65	3450	230 /115	60	7.6/15.2	AQC165▲	48Y	13.30	26	$348

PENTAIR Max-E-GLAS®† & DURA*GLAS®† Replacement Motor Base Available B3574344900010L

Note: Contact dealer for full conditions of operation
Catalog numbers are for competitive comparison purposes only.

▲High Efficiency, Capacitor Start/Run Design

AQUA-SHIELD® EZ48® C-Flange Pool and Spa Motors
Switch Design, 5.5" Frame Diameter, Threaded Shaft: Category "J"



FEATURES:

- Two Compartment
- Triple Bearing Protection
- Thermally Protected
- 1081 Design
- Shaft Threads - 7/16-20 UNF-2A
- Class B Insulated
- Open Dripproof
- Continuous Duty
- 50°C Ambient
- 300 Series Stainless Steel Shaft
- Sealed Ball Bearings
- Voltage Selection Device (Dual Voltage Only)
- **Discount symbol: DS-FPS**

- Optimized internal airflow design minimizes heat and moisture buildup inside the motor
- Internal bearing cover protects the drive/pump end ball bearing from water and debris that may occur inside of the motor
- Three additional layers of drive/pump end bearing protection:
  - Double Sealed Ball Bearing
  - Lip Seal
  - Water Slinger

Standard Efficient, Total Horsepower Rated

THP	RPM	Voltage	Freq	SF Amps	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	List
0.95	3450	230/115	60	5.5/11.0	AST095	56J	11.25	16	$236
1.25	3450	230/115	60	7.0/14.0	AST125	56J	12.25	21	$263
1.65	3450	230/115	60	8.5/17.0	AST165	56J	12.75	24	$301
2.25	3450	230/115	60	9.5/19.0	AST225	56J	13.89	27	$415
2.75	3450	208-230	60	12.3-11.3	AST275▲	56J	13.00	28.5	$487

High Efficiency, Total Horsepower Rated

THP	RPM	Voltage	Freq	SF Amps	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	List
0.95	3450	230/115	60	4.6/9.2	AQC095▲	48Y	12.05	19	$292
1.25	3450	230/115	60	5.7/11.4	AQC125▲	48Y	12.80	24	$321
1.65	3450	230/115	60	7.6/15.2	AQC165▲	48Y	13.30	26	$348

Note: Contact dealer for full conditions of operation
Catalog numbers are for competitive comparison purposes only.

▲High Efficiency, Capacitor Start/Run Design

Square Flange Pool and Spa Motors
Switchless Design, 6.5" Frame Diameter, Category "S"



FEATURES:

- Two Compartment
- 1081 Design
- Open Dripproof
- 300 Series Stainless Steel Shaft
- Shaft Threads - 1/2-20 UNF-2A
- Voltage Selection Device (Dual Voltage Only)
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- Continuous Duty
- Class B Insulated
- Thermally Protected
- 50°C Ambient
- THP Rated
- **Discount symbol: DS-FPS**

SUPERIOR MOISTURE RESISTANCE AQUA-SHIELD® BUILT TO LAST

- Optimized internal airflow design minimizes heat and moisture buildup inside the motor
- Internal bearing cover protects the drive/pump end ball bearing from water and debris that may occur inside of the motor
- Three additional layers of drive/pump end bearing protection:
  - Double Sealed Ball Bearing
  - Lip Seal
  - Water Slinger

Standard Efficient, Total Horsepower Rated

THP	RPM	Voltage	Freq	THP Amps	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	List
0.98	3450	230 /115	60	5.4/10.8	ASB846	56Y	11.99	22	$247
1.25	3450	230 /115	60	7.0/14.0	ASB847	56Y	12.49	23	$281
1.65	3450	230 /115	60	7.7/15.4	ASB848	56Y	12.74	25	$321
2.25	3450	230 /115	60	10.8/21.6	ASB858	56Y	13.74	32	$423
2.60	3450	230	60	11.5	ASB748	56Y	13.74	30	$513
3.45	3450	208-230	60	14.8-13.5	ASB844	56Y	14.24	38	$620
5.00	3450	208-230	60	21.0-19.4	ASB850[Δ]	56Y	15.74	50	$705

extreme-E Premium Energy Efficient, Total Horsepower Rated (Suitable for 50Hz)**

THP	RPM	Voltage	Freq	THP Amps	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	List
0.98	3450	208-230/115	60	4.4-4.2/8.4	ASB845	56Y	12.24	20	$292
1.25	3450	208-230/115	60	5.9-5.5/11.0	ASB661	56Y	12.74	23	$321
1.65	3450	208-230/115	60	7.6-7.2/14.4	ASB841	56Y	12.99	25	$348
2.25	3450	208-230/115	60	9.7-9.0/18.0	ASB842	56Y	13.74	33	$439
2.60	3450	208-230	60	10.6-10.0	ASB843	56Y	13.74	35	$522
3.45	3450	208-230	60	14.8-13.5	ASB844	56Y	14.24	38	$620
5.00	3450	208-230	60	21.0-19.4	ASB850[Δ]	56Y	15.74	50	$705

extreme-E Premium Energy Efficient, Two Speed, Total Horsepower Rated, Soft Start, Switch Design

HP	SF	THP	RPM	Voltage	Freq	SF Amps	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	List
3/4/.12	1.67	1.25/0.20	3450/1725	115	60	14.5/5.3	[◊]EB981	56Y	12.30	30	$449

PENTAIR Max-E-GLAS® & DURA*GLAS® Replacement Motor Base Available B3574344900010L
NOTE: Toggle switch cover assembly available for two speed models - LO-OFF-HI- X2975769700000L

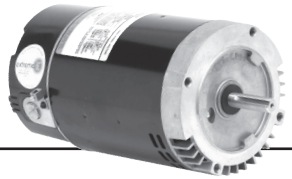
[Δ] *190 Volt Maximum Operating Voltage for 50 Hz*

[◊] Not Normally Stocked

Note: Contact dealer for full conditions of operation
Catalog numbers are for competitive comparison purposes only.

extreme-E® represents one of our most efficient running, highest performing lines of motors.

C-Flange Pool and Spa Motors
Switchless Design, 6.5" Frame Diameter, Category “C” & “J”



FEATURES:

- Two Compartment
- Shaft Threads - 7/16-20 UNF-2A
- 50°C Ambient
- 1081 Design
- Continuous Duty
- Class B Insulated
- Open Dripproof
- 300 Series Stainless Steel Shaft
- Thermally Protected
- Voltage Selection Device (Dual Voltage Only)
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- **Discount symbol: DS-FPS**



- Optimized internal airflow design minimizes heat and moisture buildup inside the motor
- Internal bearing cover protects the drive/pump end ball bearing from water and debris that may occur inside of the motor
- Three additional layers of drive/pump end bearing protection:
  - Double Sealed Ball Bearing
  - Lip Seal
  - Water Slinger

Standard Efficient, Total Horsepower Rated

THP	RPM	Voltage	Freq	Amps	Shaft	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	List
0.98	3450	230/115	60	5.4/10.8	Threaded	ASB126	56J	10.26	20	$241
1.25	3450	230/115	60	7.0/14.0	Threaded	ASB127	56J	10.76	23	$268
1.65	3450	230/115	60	7.7/15.4	Threaded	ASB128	56J	11.01	24	$307
2.25	3450	230/115	60	10.8/21.6	Threaded	ASB129	56J	12.01	31	$415
2.60	3450	230	60	11.5	Threaded	ASB130	56J	11.76	30	$497
3.45	3450	208-230	60	14.8-13.5	Threaded	ASB818	56J	12.51	36	$659
5.00	3450	208-230	60	21.0-19.4	Threaded	ASB819$^{\Delta}$	56J	14.01	50	$713

extreme-E Premium Energy Eff., Total Horsepower Rated (Suitable for 50Hz)**

THP	RPM	Voltage	Freq	Amps	Shaft	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	List
0.98	3450	208-230/115	60	4.5-4.3/8.6	Keyed	ASB656	56C	10.51	20	$303
0.98	3450	208-230/115	60	4.5-4.3/8.6	Threaded	ASB657	56J	10.51	20	$307
1.25	3450	208-230/115	60	5.9-5.5/11.0	Keyed	ASB634	56C	11.01	23	$333
1.25	3450	208-230/115	60	5.9-5.5/11.0	Threaded	ASB638	56J	11.01	23	$337
1.65	3450	208-230/115	60	7.6-7.2/14.4	Keyed	ASB653	56C	11.26	25	$370
1.65	3450	208-230/115	60	7.6-7.2/14.4	Threaded	ASB654	56J	11.26	25	$374
2.25	3450	208-230/115	60	9.7-9.0/18.0	Keyed	ASB795	56C	12.01	32	$410
2.25	3450	208-230/115	60	9.7-9.0/18.0	Threaded	ASB796	56J	12.01	32	$428
2.60	3450	208-230	60	10.6-10.0	Keyed	ASB808	56C	12.01	34	$492
2.60	3450	208-230	60	10.6-10.0	Threaded	ASB809	56J	12.01	32	$501
3.45	3450	208-230	60	14.8-13.5	Keyed	ASB817	56C	12.51	36	$651
3.45	3450	208-230	60	14.8-13.5	Threaded	ASB818	56J	12.51	36	$659
5.00	3450	208-230	60	21.0-19.4	Threaded	ASB819$^{\Delta}$	56J	14.01	50	$713
5.00	3450	208-230	60	21.0-19.4	Threaded	♦ASB116$^{\Delta\Diamond}$	56Y	14.76	53	$800

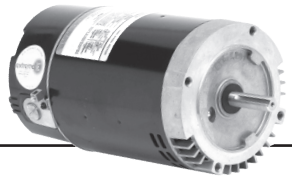
PENTAIR Max-E-GLAS® & DURA*GLAS® Replacement Motor Base Available B3574344900010L

Δ190 Volt Maximum Operating Voltage for 50 Hz
♦B14 flange, metric shaft
◊ Not Normally Stocked

Note: Contact dealer for full conditions of operation
Catalog numbers are for competitive comparison purposes only.

extreme-E® represents one of our most efficient running, highest performing lines of motors.

C-Flange Pool and Spa Motors Switchless Design, 6.5" Frame Diameter (Continued): Category "C" & "J"



FEATURES:

- Two Compartment
- Shaft Threads - 7/16-20 UNF-2A
- 50°C Ambient
- 1081 Design
- Continuous Duty
- Class B Insulated
- Open Dripproof
- 300 Series Stainless Steel Shaft
- Thermally Protected
- Secondary "Max Pump" Service Factor (SF) for C-Flange motors to allow for popular OEM pump loading
- **Discount symbol: DS-FPS**

extreme-E Two Speed, Total Horsepower Rated, Soft Start

THP	RPM	Voltage	Freq	Amps	Shaft	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	List
1.25/0.17	3450/1725	115V	60	14.5/5.3	Threaded	EB973	56J	11.02	28	$433

NOTE: Toggle switch cover assembly available for two speed models - LO-OFF-HI- X2975769700000L

Pool Cleaner Replacement Motors Switchless Design, 6.5" Frame Diameter: Category "P"



FEATURES:

- Two Compartment
- Shaft Threads - 1/2-20 UNF-2A
- 50°C Ambient
- 1081 Design
- Continuous Duty
- Voltage Selection Device
- Class B Insulated
- Open Drip Proof
- 300 Series Stainless Steel Shaft
- Thermally Protected
- Secondary "Max Pump" Service Factor (SF) for C-Flange motors to allow for popular OEM pump loading
- **Discount Symbol: DS-FPS**

AQUA-SHIELD

- Optimized internal airflow design minimizes heat and moisture buildup inside the motor
- Internal bearing cover protects the drive/ pump end ball bearing from water and debris that may occur inside of the motor
- Three additional layers of drive/pump end bearing protection:
  - Double Sealed Ball Bearing
  - Lip Seal
  - Water Slinger

Standard Efficient, Full Service Factor, Full Rated

HP	NEMA®† SF	Max Pump SF	THP	RPM	Voltage	Freq	NEMA®† SF Amps	Max Pump SF Amps	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	Replacement Brand	List
3/4	1.50	1.65	1.25	3450	230/115	60	6.3/12.6	7.0/14.0	ASB625	56CZ	10.76	23	Polaris/Zodiac	$305
3/4	1.50	1.65	1.25	3450	230/115	60	6.0/12.0	7.0/14.0	ASB668	56CZ	10.76	23	Letro/Pentair	$305

Note: Contact dealer for full conditions of operation
Catalog numbers are for competitive comparison purposes only.

extreme-E Extreme-E® represents one of our most efficient running, highest performing lines of motors.

Three Phase Pool & Spa Motors

FEATURES:

- Single Compartment
- Sealed Ball Bearings
- Triple Bearing Protection
- Open Drip Proof
- Class B Insulated
- Shaft Threads – (Square Flange) 1/2-20 UNC-2A or (C-Flange) 7/16-20 UNF-2A
- 300 Series Stainless Steel Shaft
- Continuous Duty
- 50°C Ambient
- Rated for 50 Hertz, 1.0 Service Factor
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- **Discount Symbol: DS-FPS**

Square Flange, Full Service Factor, Full Rated

HP	SF	RPM	Voltage	Freq	SF Amps	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	Shaft	List
1/2	1.90	3450	208-230/460	60	2.9-2.6/1.3	EH491	56Y	10.27	23	Threaded	$312
3/4	1.65	3450	208-230/460	60	4.1-3.8/1.9	EH492	56Y	10.27	23	Threaded	$343
1.0	1.65	3450	208-230/460	60	4.8-4.6/2.3	EH635	56Y	10.27	25	Threaded	$383
1.5	1.47	3450	208-230/460	60	6.4-6.2/3.1	EH636	56Y	10.52	28	Threaded	$486
2.0	1.30	3450	208-230/460	60	7.0-6.6/3.3	EH637	56Y	11.02	33	Threaded	$589
3.0	1.15	3450	208-230/460	60	9.6-9.4/4.7	EH755	56Y	12.04	41	Threaded	$638
5.0	1.00	3450	208-230/460	60	13.7-13.0/6.5	EH995	56Y	13.50	52	Threaded	$705

C-Flange, Keyed and Threaded Shaft, Full Service Factor, Full Rated

HP	SF	RPM	Voltage	Freq	SF Amps	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	Shaft	List
1/2	1.60	3450	208-230/460	60	2.7-2.4/1.2	EH281	56C	9.07	22	Keyed	$268
1/2	1.60	3450	208-230/460	60	2.7-2.4/1.2	EH282	56J	9.07	26	Threaded	$294
3/4	1.50	3450	208-230/460	60	3.7-3.6/1.8	EH450	56C	9.07	22	Keyed	$299
3/4	1.50	3450	208-230/460	60	3.7-3.6/1.8	EH451	56J	9.07	22	Threaded	$326
1.0	1.40	3450	208-230/460	60	4.4-4.2/2.1	EH513	56C	9.07	24	Keyed	$339
1.0	1.40	3450	208-230/460	60	4.4-4.2/2.1	EH514	56J	9.07	24	Threaded	$370
1.5	1.30	3450	208-230/460	60	6.0-5.8/2.9	EH616	56C	9.31	27	Keyed	$441
1.5	1.30	3450	208-230/460	60	6.0-5.8/2.9	EH617	56J	9.31	27	Threaded	$477
2.0	1.20	3450	208-230/460	60	6.6-6.4/3.2	EH704	56C	9.82	32	Keyed	$482
2.0	1.20	3450	208-230/460	60	6.6-6.4/3.2	EH705	56J	9.82	32	Threaded	$544
3.0	1.15	3450	208-230/460	60	9.6-9.4/4.7	EH740	56C	10.82	40	Keyed	$602
3.0	1.15	3450	208-230/460	60	9.6-9.4/4.7	EH741	56J	10.82	40	Threaded	$655

PENTAIR Max-E-GLAS®† & DURA*GLAS®† Replacement Motor Base Available B3574344900010L

HAYWARD NorthStar™† Replacements C-Flange Switchless Design, 6.5" Frame Diameter, Threaded Shaft: Category "N"

FEATURES:

- Two Compartment
- Triple Bearing Protection
- Thermally Protected
- 1081 Design
- Shaft Threads - 7/16-20 UNF-2A
- Class B Insulated
- Open Dripproof
- Continuous Duty
- 60°C Ambient
- 6.5" Diameter Frame
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- 300 Series Stainless Steel Shaft
- Sealed Ball Bearings
- Voltage Selection Device (Dual Voltage Only)
- **Discount symbol: DS-FPS**



extreme-E Premium Energy Efficient, Full Service Factor, Full Rated

HP	SF	THP	RPM	Voltage	Freq	SF Amps	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	List
3/4	1.85	1.40	3450	208-230/115	60	6.0-5.5/11.0	ESN1072	56J	11.01	25	$357
1.0	1.85	1.85	3450	208-230/115	60	8.5-7.8/15.6	ESN1102	56J	11.51	28	$396
1.5	1.60	2.40	3450	208-230/115	60	11.0-10.2/20.4	ESN1152	56J	12.01	31	$454
2.0	1.35	2.70	3450	208-230	60	13.0-11.8	ESN1202	56J	12.01	33	$531
3.0	1.60	4.80	3450	208-230	60	20.6-19.0	ESN1302	56J	14.01	35	$796

Note: Contact dealer for full conditions of operation
Catalog numbers are for competitive comparison purposes only.

extreme-E Premium Energy Efficient, Low Service Factor, Up/Max Rated

HP	SF	THP	RPM	Voltage	Freq	SF Amps	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	List
1.0	1.40	1.40	3450	208-230/115	60	6.0-5.5/11.0	EUSN1102	56J	11.01	25	$357
1.5	1.25	1.85	3450	208-230/115	60	8.5-7.8/15.6	EUSN1152	56J	11.51	28	$396
2.0	1.20	2.40	3450	208-230/115	60	11.0-10.2/20.4	EUSN1202	56J	12.01	31	$454
2.5	1.10	2.70	3450	208-230	60	13.0-11.8	EUSN1252	56J	12.01	35	$531
3.0	1.20	3.60	3450	208-230	60	16.0-14.8	EUSN1302	56J	12.76	39	$763

HAYWARD TRISTAR®† Replacement Square Flange 6.5" Frame Diameter, Category "T"



FEATURES:

- Two Compartment
- 1081 Design
- Open Dripproof
- 300 Series Stainless Steel Shaft
- Shaft Threads - 1/2-20 UNF-2A
- Continuous Duty
- Thermally Protected
- 60°C Ambient
- Voltage Selection Device (Dual Voltage Only)
- 6.5" Diameter Frame
- Triple Bearing Protection
- Class B Insulated
- Sealed Ball Bearings
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- **Discount symbol: DS-FPS**

extreme-E Premium Energy Efficient, Full Service Factor, Full Rated (Switch Design)

HP	SF	THP	RPM	Voltage	Freq	Amps	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	List
1/2	1.98	0.98	3450	208-230/115	60	5.3-4.9/9.8	ET3205	56Y	12.49	22	$299
3/4	1.85	1.40	3450	208-230/115	60	7.0-6.2/12.4	ET3207	56Y	12.74	26	$336
1.0	1.85	1.85	3450	208-230/115	60	8.5-7.4/14.8	ET3210	56Y	13.24	30	$380
1.5	1.60	2.40	3450	208-230/115	60	11.2-10.2/20.4	ET3215	56Y	13.74	33	$484
2.0	1.35	2.70	3450	208-230	60	11.8-11.0	ET3220	56Y	13.74	33	$573
3.0	1.20	3.60	3450	208-230	60	16.0-14.8	ET3230	56Y	14.49	43	$699

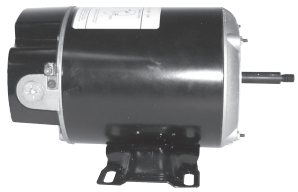
Standard Efficient, Total Horsepower Rated (50° Ambient, Switchless Design)

HP	SF	THP	RPM	Voltage	Freq	Amps	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	List
3/4	1.25	0.98	3450	230/115	60	5.4/10.8	ASB846	56Y	11.99	22	$247
1.0	1.25	1.25	3450	230/115	60	7.0/14.0	ASB847	56Y	12.49	23	$281
1.5	1.10	1.65	3450	230/115	60	7.7/15.4	ASB848	56Y	12.74	25	$321
2.0	1.10	2.25	3450	230/115	60	10.8/21.6	ASB858	56Y	13.74	32	$423
2.5	1.04	2.60	3450	230	60	11.5	ASB748	56Y	13.74	30	$513
3.0	1.15	3.45	3450	208-230	60	14.8-13.5	ASB844	56Y	14.24	38	$620

Note: Contact dealer for full conditions of operation
Catalog numbers are for competitive comparison purposes only.

extreme-E Extreme-E® represents one of our most running, highest performing lines of motors.

EZ48® Thru-Bolt Pool and Spa Motors
5.5" Frame Diameter



FEATURES:

- Open Dripproof
- Sealed Ball Bearings
- Class B Insulated
- 300 Series Stainless Steel Shaft
- 50^0 C Ambient
- 3 O'clock Conduit
- Shaft Thread-3/8-16 UNC 2A RH
- Rigid Base
- Sealed Switch Contacts
- Thermally Protected
- 1081 Design
- 3 1/2" Shaft Height
- **Discount symbol: DS-FPS**

Single Speed - 1.5 Compartment

HP	SF	RPM	Voltage	Freq	SF Amps	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	List
1/2	1.00	3450	115	60	7.5	EZBN23	48Y	8.7	15	$155
3/4	1.00	3450	115	60	10.0	EZBN24	48Y	8.7	17	$165
1.0	1.00	3450	115	60	12.0	EZBN25	48Y	9.3	22	$182
1.5	1.00	3450	115	60	16.0	EZBV35	48Y	9.8	25	$214
1.5	1.00	3450	230/115	60	7.7/15.4	EZBN35	48Y	9.8	25	$214

Two Speed - 1.5 Compartment

HP	SF	RPM	Voltage	Freq	SF Amps	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	List
3/4/.10	1.00	3450/1725	115	60	7.6/3.0	EZBN36	48Y	9.56	17	$214
1.0/.12	1.00	3450/1725	115	60	9.5/3.2	EZBN37	48Y	9.56	19	$228
1.5/.18	1.00	3450/1725	115	60	13.3/4.1	EZBN50	48Y	10.56	25	$285

Rocker Switch Cover Assembly available: Two Speed - LO-OFF-HI-X2975862300000L One Speed - ON-OFF-X2975862200000L

Thru-Bolt Spa Circulator Pump Motors
5.5" Frame Diameter

FEATURES:

- Open Dripproof
- Thru Bolt Mount
- Class B Insulated
- Rigid Base
- 50^0 C Ambient
- 3 O'clock Conduit
- Thermally Protected
- 3 1/2" Shaft Height
- 1081, 1563 & 1795 Design
- Shaft Thread-3/8-16 UNC 2A RH
- Sealed Ball Bearings
- **Discount symbol: DS-FPS**

Single Speed - Spa Circulator Pump Motors

HP	SF	RPM	Voltage	Freq	SF Amps	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	List
1/15	1.00	1725	115	60	1.3	EV115	48Y	7.25	19	$146
1/15	1.00	1725	230	60	0.63	EV230	48Y	7.25	11.7	$139

Note: Contact dealer for full conditions of operation
Catalog numbers are for competitive comparison purposes only.

Thru-Bolt Pool and Spa Motors
5.5" Frame Diameter



FEATURES:

- Open Dripproof
- Thru Bolt Mount
- Class F Insulated
- 1081,1563 & 1795 Design
- Rigid Base
- Continuous Duty
- 3 O'clock Conduit
- Shaft Thread - 3/8-16 UNC 2A RH
- Thermally Protected
- 3 1/2" Shaft Height
- 50^0 C Ambient
- **Discount symbol: DS-FPS**

Single Speed

HP	SF	RPM	Voltage	Freq	SF Amps	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	Notes	List
1/2	1.00	3450	115	60	7.5	AGL50FL1	48Y	7.8	15	2,5	$155
3/4	1.00	3450	115	60	10.0	AGL75FL1	48Y	7.8	17	2,5	$165
3/4	1.00	3450	230	60	5.0	AGH75FL1	48Y	7.8	17	2,5	$171
1.0	1.00	3450	115	60	12.0	AGL10FL1	48Y	8.4	22	2,5	$182
1.0	1.00	3450	230	60	6.0	AGH10FL1	48Y	8.4	22	2,5	$190
1.5	1.00	3450	230/115	60	7.7/15.4	AGD15FL1	48Y	8.9	25	2,5	$214
2.0	1.00	3450	230	60	10.5	SPH20FLC1	48Y	10.2	27	4	$257
2.0	1.00	3450	230	60	8.7	SPH20FL1	48Y	10.2	28	1	$269
2.5	1.00	3450	230	60	10.0	SPH25FL1	48Y	10.2	31	1	$303
3.0	1.00	3450	230	60	12.0	SPH30FL1	48Y	10.2	31	1	$330

Two Speed, Soft Start

HP	SF	RPM	Voltage	Freq	SF Amps	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	Notes	List
3/4/.10	1.00	3450/1725	115	60	9.8/3.2	AGL75FL2	48Y	7.8	20	2,3,5	$214
1/.12	1.00	3450/1725	115	60	10.3/3.8	AGL10FL2S	48Y	9.6	23	2,5	$228
1/.12	1.00	3450/1725	230	60	6.1/1.8	AGH10FL2	48Y	9.6	23	2,3,5	$228
1.5/.18	1.00	3450/1725	115	60	16.4/4.4	AGL15FL2CS	48Y	10.2	26	2	$285
1.5/.18	1.00	3450/1725	230	60	8.0/2.5	AGH15FL2CS	48Y	10.2	26	2	$285
1.5/.18	1.00	3450/1725	115	60	13.6/3.6	SPL15FL2S	48Y	10.2	27	1,4	$303
2/.25	1.00	3450/1725	230	60	10.5/3.0	SPH20FL2CS	48Y	10.2	29	4	$317
2/.25	1.00	3450/1725	230	60	8.6/3.4	SPH20FL2S	48Y	10.2	30	1,4	$339
2.5/.33	1.00	3450/1725	230	60	11.0/3.3	SPH25FL2S	48Y	10.2	32	1,4	$342
3/.38	1.00	3450/1725	230	60	12.7/3.4	SPH30FL2S	48Y	10.6	35	1,4	$374

Single Speed, 50Hz, CE Conformance

HP	SF	RPM	Voltage	Freq	SF Amps	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	Notes	List
1.0	1.00	3450/2850	220-240	60/50	6.3/6.0	AGH10FL150	48Y	8.2	23	2,5	$190

Single Speed, Less Rigid Base

HP	SF	RPM	Voltage	Freq	SF Amps	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	Notes	List
1.0	1.00	3450	115	60	12.0	AGL10FL1NB	48Y	8.4	22	2,5	$210

Hoffinger Replacement, Thru Bolt Mount, Less Rigid Base, Class B Insulated

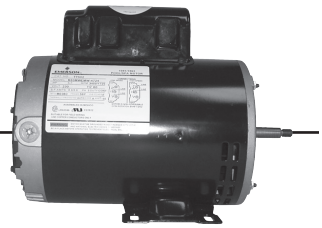
HP	SF	RPM	Voltage	Freq	SF Amps	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	Replacement Brand	List
1.0	1.00	3450	115	60	10.0	AGL10FL1H2	48Y	9.6	12	Power Pack II	$201
SPL	1.00	3450	115	60	12.0	AGL15FL1H2	48Y	10.1	15	Power Pack II	$223

NOTES:
1) Capacitor start/capacitor run (extra low running amps)
2) 416 Stainless Steel Extension
3) High Speed Start
4) 1563 & 1795 design only
5) Class B Insulated

Note: Contact dealer for full conditions of operation
Catalog numbers are for competitive comparison purposes only.

Toggle switch cover assembly available for two speed models - LO-OFF-HI- X2972706700000L
Toggle switch cover assembly available for single speed models - ON-OFF-X2972712900000L

Thru-Bolt Pool & Spa
6.5" Frame Diameter



FEATURES:

- Open Drip Proof
- Thru-Bolt Mount
- Class F Insulated
- 1081 & 1563 Design
- Sealed Ball Bearing
- Rigid Base
- Thermally Protected
- 60°C Ambient
- 3 o'clock Conduit
- Premium Energy Efficient Design
- Shaft Thread - 3/8-16 UNC-2A
- **Discount Symbol: DS-FPS**

extreme-E Premium Energy Efficient, Single Speed, Switchless Design

HP	SF	THP	RPM	Voltage	Freq	SF Amps	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	Notes	List
1.5	1.00	1.50	3450	230/115	60	8.8/17.5	ASB602	56Y	9.58	28	1	$255
2.0	1.00	2.00	3450	230	60	10.0	ASB603	56Y	9.58	28		$280
2.5	1.00	2.50	3450	230	60	10.5	ASB604	56Y	9.58	30		$312
3.0	1.00	3.00	3450	230	60	12.0	ASB605	56Y	10.08	33		$363
4.0	1.00	4.00	3450	230	60	16.4	ASB606	56Y	10.58	37		$414

extreme-E Premium Energy Efficient, Two Speed, Soft Start

HP	SF	THP	RPM	Voltage	Freq	SF Amps	Catalog Number	Motor Frame	Length Less Shaft	Wgt.	Notes	List
1.5/.18	1.00	1.5/.18	3450/1725	230	60	8.0/3.0	ASB502	56Y	9.58	31		$280
2.0/.25	1.00	2.0/.25	3450/1725	230	60	10.0/3.5	ASB503	56Y	10.08	35		$327
2.5/.33	1.00	2.5/.33	3450/1725	230	60	10.5/3.8	ASB504	56Y	10.33	38		$364
3.0/.38	1.00	3.0/.38	3450/1725	230	60	12.0/4.4	ASB505	56Y	10.83	36		$403
4.0/.50	1.00	4.0/.50	3450/1725	230	60	16.4/4.8	ASB506	56Y	11.58	45		$476
5.0/.63	1.00	5.0/.63	3450/1725	230	60	19.5/5.0	TT507	56Y	12.08	48		$512

NOTE:
1) Capacitor start design

Note: Contact dealer for full conditions of operation
Catalog numbers are for competitive comparison purposes only.

extreme-E Extreme-E® represents one of our most efficient running, highest performing lines of motors.

Pool & Spa Motors - Close Coupled Pumps
PENTAIR EQ SERIES®† Replacement Pool Motors



FD4

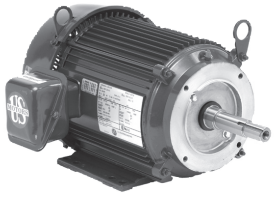
Open Drip Proof, Premium Efficient, Full Service Factor, Full Rated

FEATURES:

- Special JMZ Mounting
- 40°C Ambient
- Continuous Duty
- Class F Insulated
- Open Drip Proof
- Permanently Lubricated Ball Bearings
- Rigid Base
- Black Paint
- Special Ground Lug
- 300 Series Stainless Steel Shaft
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- **Discount Symbol: DS-FPS**

HP	Phase	RPM	Frame	Voltage	Catalog Number	SF	Full Load		Wgt.	List
							EFF	PF		
5	1	3600	184JMZ	230	EEQ500	1.15	88.0%	94.0%	78	$1,424
	3	3600	182JMZ	208-230/460	EEQK500	1.15	89.5%	85.8%	50	$961
7.5	3	3600	184JMZ	208-230/460	EEQK750	1.15	88.5%	87.0%	60	$1,109
	1	3600	213JMZ	230	EEQ750	1.15	87.0%	92.3%	70	$2,449
10	3	3600	213JMZ	208-230/460	EEQK1000	1.15	90.2%	79.2%	90	$1,468
15	3	3600	215JMZ	208-230/460	EEQK1500	1.15	91.0%	82.0%	105	$1,635

Totally Enclosed Fan Cooled, Premium Efficient, Full Service Factor, Full Rated



UT4

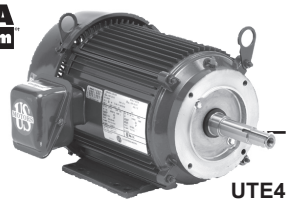
FEATURES:

- Special JMZ Mounting
- 40°C Ambient
- Continuous Duty
- Class F Insulated
- Totally Enclosed Fan Cooled
- Permanently Lubricated Ball Bearings
- Rigid Base
- Black Paint
- Special Ground Lug
- 300 Series Stainless Steel Shaft Extension
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- **Discount Symbol: DS-FPS**

HP	Phase	RPM	Frame	Voltage	Catalog Number	SF	Full Load		Wgt.	List
							EFF	PF		
5	3	3600	184JMZ	208-230/460	EEQKT500	1.25	88.5%	87.1%	70	$1,067
7.5	3	3600	213JMZ	208-230/460	EEQKT750	1.25	91.0%	86.8%	105	$1,363
10	3	3600	215JMZ	208-230/460	EEQKT1000	1.25	91.0%	87.6%	120	$1,630
15	3	3600	215JMZ	208-230/460	EEQKT1500	1.25	91.0%	85.3%	120	$1,815

Special Application Close Coupled Pump Three Phase Totally Enclosed Fan Cooled (TEFC) NEMA®† Premium Efficient

NEMA Premium



UTE4

APPLICATIONS:

For the specific requirements of centrifugal pumps where the pump impeller is mounted directly on the motor shaft. Used in damp, dusty or dirty environments.

FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- Cast Iron Frame 280 & Up, Aluminum 180-250, Rolled Steel 140
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- Cast Iron End Brackets 280 & Up, 250 Frame and Lower Has Aluminum With Steel Bearing Inserts
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- Regreasable Shaft End Bearing 180 Frame & Up
- Double Shielded Bearings
- Removable Base (180 - 250 Frame)
- Lifting Provisions 180 Frame & Up
- Conversion Kits: Canopy Kits

JM Shaft For Mechanical Seal

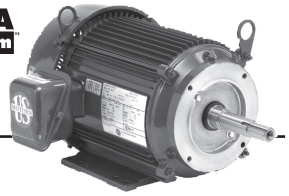
HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
1	3600	230/460	143JM	UJ1P1BM	$529	DS-3PT	1.25	14.3	30	81.5	2.7/1.4	
	3600	575	143JM	UJ1P1GM	$529	DS-3PT	1.25	14.3	30	81.5	1.1	
	1800	208-230/460	143JM	UJ1P2DM	$518	DS-3PT	1.25	15.3	30	85.5	3.1-3/1.5	03
	1800	575	143JM	UJ1P2GM	$518	DS-3PT	1.25	14.3	30	85.5	1.1	
1 1/2	3600	208-230/460	143JM	UJ32P1DM	$584	DS-3PT	1.25	15.3	30	84.0	4.1-3.8/1.9	03
	3600	575	143JM	UJ32P1GM	$584	DS-3PT	1.25	14.3	30	84.0	1.6	
	1800	208-230/460	145JM	UJ32P2DM	$565	DS-3PT	1.15	15.3	35	86.5	4.5-4.3/2.1	03
	1800	575	145JM	UJ32P2GM	$565	DS-3PT	1.25	15.3	30	86.5	1.7	
2	3600	208-230/460	145JM	UJ2P1DM	$622	DS-3PT	1.25	15.3	35	86.5	5.4-4.9/2.5	03
	3600	575	145JM	UJ2P1GM	$622	DS-3PT	1.25	15.3	42	86.5	2	
	1800	208-230/460	145JM	UJ2P2DM	$611	DS-3PT	1.25	15.3	35	86.5	5.9-5.7/2.8	03
	1800	575	145JM	UJ2P2GM	$611	DS-3PT	1.25	15.3	35	86.5	2.3	
3	3600	208-230/460	145JM	UJ3P1DFM	$738	DS-3PT	1.25	15.3	35	86.5	8.1-7.2/3.6	03,14
	3600	208-230/460	182JM	UJ3P1DM	$886	DS-3PT	1.25	17.8	60	87.5	8.4-7.8/3.9	03
	3600	575	145JM	UJ3P1GFM	$738	DS-3PT	1.25	15.3	35	86.5	2.9	14
	3600	575	182JM	UJ3P1GM	$886	DS-3PT	1.25	17.8	100	87.5	3.1	
	1800	208-230/460	182JM	UJ3P2DM	$795	DS-3PT	1.25	17.8	60	89.5	8.4-7.8/3.9	03
	1800	575	182JM	UJ3P2GM	$795	DS-3PT	1.25	17.8	60	89.5	3.1	
5	3600	208-230/460	184JM	UJ5P1DM	$1,088	DS-3PT	1.25	17.8	70	88.5	13.4-12.2/6.1	03
	3600	575	184JM	UJ5P1GM	$1,088	DS-3PT	1.25	17.8	100	88.5	4.9	
	1800	208-230/460	184JM	UJ5P2DM	$908	DS-3PT	1.25	18.6	70	90.2	13.6-12.3/6.2	03
	1800	575	184JM	UJ5P2GM	$908	DS-3PT	1.25	18.6	70	89.5	5	
7 1/2	3600	208-230/460	184JM	UJ7P1DFM	$1,213	DS-3PT	1.25	17.8	70	90.2	19.9-19/9.5	03,14
	3600	208-230/460	213JM	UJ7P1DM	$1,345	DS-3PT	1.25	19.9	105	91.0	19.9-17.8/8.9	03
	3600	575	184JM	UJ7P1GFM	$1,213	DS-3PT	1.25	17.8	70	89.5	7.1	14
	3600	575	213JM	UJ7P1GM	$1,345	DS-3PT	1.25	19.9	240	91.0	7.1	
	1800	208-230/460	213JM	UJ7P2DM	$1,228	DS-3PT	1.25	19.9	105	91.7	20-18.2/9.1	03
	1800	575	213JM	UJ7P2GM	$1,228	DS-3PT	1.25	19.9	105	91.7	7.2	
10	3600	208-230/460	215JM	UJ10P1DM	$1,556	DS-3PT	1.25	21.4	120	91.0	26.4-23.5/11.7	03
	3600	575	215JM	UJ10P1GM	$1,556	DS-3PT	1.25	21.4	166	91.0	9.4	
	1800	208-230/460	215JM	UJ10P2DM	$1,458	DS-3PT	1.25	21.4	120	91.7	26.5-23.9/12	03
	1800	575	215JM	UJ10P2GM	$1,458	DS-3PT	1.25	21.4	120	91.7	9.6	

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 14 NEMA®† Design A

Special Application Close Coupled Pump Three Phase Totally Enclosed Fan Cooled (TEFC) NEMA®† Premium Efficient

(continued)



UTE4

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
10	3600	208-230/460	215JP	UJ10P1DP	$1,556	DS-3PT	1.25	25.3	120	91.0	26.4-23.5/11.7	03
	1800	208-230/460	215JP	UJ10P2DP	$1,458	DS-3PT	1.25	25.3	120	91.7	26.5-23.9/12	03
	1800	575	215JP	UJ10P2GP	$1,458	DS-3PT	1.25	25.3	120	91.7	9.6	
15	3600	208-230/460	215JP	UJ15P1DFP	$1,801	DS-3PT	1.25	25.3	120	91.7	39-36/18	03,14
	3600	208-230/460	254JP	UJ15P1DP	$2,239	DS-3PT	1.25	28.3	180	91.0	39-35/17.7	03,14
	1800	208-230/460	254JP	UJ15P2DP	$2,131	DS-3PT	1.25	28.3	180	92.4	40-37/18.4	03
	1800	575	254JP	UJ15P2GP	$2,131	DS-3PT	1.25	28.3	180	92.4	14.6	
20	3600	208-230/460	256JP	UJ20P1DP	$2,730	DS-3PT	1.25	30.0	230	91.7	51-46/23	03,14
	1800	208-230/460	256JP	UJ20P2DP	$2,463	DS-3PT	1.25	30.0	230	93.0	53-47/23.5	03
	1800	575	256JP	UJ20P2GP	$2,463	DS-3PT	1.25	30.0	230	93.0	19	
25	3600	208-230/460	256JP	UJ25P1DFP	$3,235	DS-3PT	1.15	30.0	230	91.7	64-57/28.3	03,14
	3600	208-230/460	284JP	UJ25P1DP	$3,595	DS-3PT	1.25	32.0	280	91.7	65-57/28.4	03
	1800	208-230/460	284JP	UJ25P2DP	$3,237	DS-3PT	1.25	32.0	280	93.6	65-59/29.3	03
	1800	575	284JP	HJ25P2GP	$3,237	DS-3PT	1.15	30.8	380	93.6	23	
30	3600	230/460	286JP	HJ30P1BP	$4,383	DS-3PT	1.15	30.75	410	91.7	69/34	
	1800	208-230/460	286JP	UJ30P2DP	$3,666	DS-3PT	1.25	32.0	300	93.6	78-70/35	03

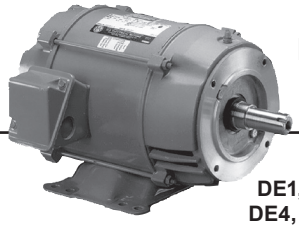
Westcoast Shaft - Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
7 1/2	3600	208-230/460	213TCZ	UJ7P1DJ	$1,345	DS-3PT	1.25	22.8	105	91.0	19.9-17.8/8.9	03
	1800	208-230/460	213TCZ	UJ7P2DJ	$1,228	DS-3PT	1.25	22.8	105	91.7	20-18.2/9.1	03
10	3600	208-230/460	215TCZ	UJ10P1DJ	$1,556	DS-3PT	1.25	24.3	120	91.0	26.4-23.5/11.7	03
	1800	208-230/460	215TCZ	UJ10P2DJ	$1,458	DS-3PT	1.25	24.3	120	91.7	26.5-23.9/12	03
15	3600	208-230/460	215TCZ	UJ15P1DFJ	$1,801	DS-3PT	1.25	24.3	120	91.7	39-36/18	03

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 14 NEMA®† Design A

Special Application Close Coupled Pump Three Phase Open Drip Proof (ODP) NEMA®† Premium Efficient



DE1, DE3, DE4, DEF4

APPLICATIONS:

For the specific requirements of centrifugal pumps where the pump impeller is mounted directly on the motor shaft. Used in damp, dusty or dirty environments.

FEATURES:

- Class F Insulation, Class B Rise At Service Factor
- Rolled Steel Frame
- Aluminum End Shields 140-250, Cast Iron End Shields 280-320
- Oversized Ball Bearings w/Locked Shaft End Construction
- Premasked Mylar Nameplate
- F1 Assembly Position
- Regreasable Bearings 180 Frame & Up, Lifting Provisions 210 Frame & Up
- Double Shielded Bearings
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- "JM" Shaft For Mechanical Seal
- "JM" Shaft on 210 Frame and Smaller; JP Shaft on 250 and 280 Frame
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data

JM Shaft - Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
3/4	1200	208-230/460	143JM	DJ34P3DM	$655	DS-3POP	1.15	15.0	30	80.0	2.8-2.8/1.4	03
1	1800	200	143JM	DJ1P2HM	$487	DS-3POP	1.15	15.0	30	85.5	3.6	
	1800	208-230/460	143JM	DJ1P2DM	$487	DS-3POP	1.15	15.0	30	85.5	3.1-3.1/1.5	03
	1200	208-230/460	145JM	DJ1P3DM	$655	DS-3POP	1.15	15.0	35	82.5	4/4/2002	03
1 1/2	3600	208-230/460	143JM	DJ32P1DM	$519	DS-3POP	1.15	15.0	30	85.5	4.2-3.8/1.9	03
	1800	200	145JM	DJ32P2HM	$513	DS-3POP	1.15	15.0	35	86.5	4.8	
	1800	208-230/460	145JM	DJ32P2DM	$513	DS-3POP	1.15	15.0	35	86.5	4.4-4.1/2.1	03
	1200	208-230/460	182JM	DJ32P3DM	$660	DS-3POP	1.15	16.0	50	86.5	5.2-5.3/2.6	03
2	3600	208-230/460	145JM	DJ2E1DM	$524	DS-3FPO	1.15	15.0	35	84.0	5.6-5.1/2.5	03,16,NNP,LA
	3600	208-230/460	145JM	DJ2P1DM	$567	DS-3POP	1.15	15.0	35	85.5	5.5-5/2.5	03
	1800	200	145JM	DJ2P2HM	$563	DS-3POP	1.15	15.0	35	86.5	6.3	
	1800	208-230/460	145JM	DJ2P2DM	$563	DS-3POP	1.15	15.0	35	86.5	5.9-5.6/2.8	03
	1800	575	145JM	DJ2E2GM	$482	DS-3FPO	1.15	15.0	37	84.0	2.4	NNP,LA
	1800	575	145JM	DJ2P2GM	$563	DS-3POP	1.15	15.0	35	85.5	2.2	
	1200	208-230/460	184JM	DJ2P3DM	$739	DS-3POP	1.15	16.0	60	87.5	6.4-6.3/3.1	03
3	3600	208-230/460	145JM	DJ3P1DM	$582	DS-3POP	1.15	15.0	35	85.5	8.3-7.4/3.7	03
	1800	200	182JM	DJ3P2HM	$598	DS-3POP	1.15	16.0	50	89.5	8.8	
	1800	208-230/460	182JM	DJ3P2DM	$598	DS-3POP	1.15	16.0	50	89.5	8.3-7.7/3.8	03
	1200	208-230/460	213JM	DJ3P3DM	$941	DS-3POP	1.15	18.0	90	88.5	9.4-8.9/4.4	03
5	3600	200	182JM	DJ5E1HM	$718	DS-3FPO	1.15	17.0	50	85.5	14.8	NNP,LA
	3600	200	182JM	DJ5P1HM	$620	DS-3POP	1.15	16.0	50	88.5	14.1	
	3600	208-230/460	182JM	DJ5P1DM	$620	DS-3POP	1.15	16.0	50	87.5	13.8-12.5/6.2	03
	1800	200	184JM	DJ5P2HM	$645	DS-3POP	1.15	16.0	60	89.5	14.2	
	1800	208-230/460	184JM	DJ5P2DM	$645	DS-3POP	1.15	16.0	60	89.5	13.7-12.4/6.2	03
	1800	575	184JM	DJ5P2GM	$645	DS-3POP	1.15	16.0	60	89.5	4.9	
	1200	208-230/460	215JM	DJ5P3DM	$1,234	DS-3POP	1.15	19.0	105	89.5	15.2-14.5/7.3	03
7 1/2	3600	208-230/460	184JM	DJ7P1DM	$968	DS-3POP	1.15	16.0	60	88.5	20.3-18.1/9.1	03
	1800	200	213JM	DJ7P2HM	$943	DS-3POP	1.15	18.0	90	91.0	21.4	
	1800	208-230/460	213JM	DJ7P2DM	$943	DS-3POP	1.15	18.0	90	91.0	20.2-18.5/9.3	03
	1800	575	213JM	DJ7P2GM	$943	DS-3POP	1.15	18.0	90	91.0	7.3	

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 16 Motors marked 208-230/460 volts may not meet all NEMA®† (MG-1) performance standards when operated at 208 volts

Note LA Limited Availability

Note NNP Non-NEMA®† Premium

Special Application Close Coupled Pump Three Phase Open Drip Proof (ODP) NEMA®† Premium Efficient

(continued)



DE1

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
10	3600	200	213JM	DJ10P1HM	$1,132	DS-3POP	1.15	18.0	90	90.2	28	
	3600	208-230/460	213JM	DJ10P1DM	$1,132	DS-3POP	1.15	18.0	90	90.2	27.1-24.3/12.2	03
	3600	575	213JM	DJ10E1GM	$1,076	DS-3FPO	1.15	18.0	113	88.5	10.2	NNP,LA
	3600	575	213JM	DJ10P1GM	$1,132	DS-3POP	1.15	18.0	90	90.2	9.7	
	1800	200	215JM	DJ10P2HM	$1,147	DS-3POP	1.15	19.0	105	91.7	28.1	
	1800	208-230/460	215JM	DJ10P2DM	$1,147	DS-3POP	1.15	19.0	105	92.4	26.3-23.8/11.9	03
15	3600	208-230/460	215JM	DJ15P1DM	$1,555	DS-3POP	1.15	19.0	105	90.2	40-36/18	03
	1800	230/460	254JM	DJ15P2EM	$1,712	DS-3POP	1.15	21.1	150	93.0	37/18.3	03
20	3600	230/460	254JM	DJ20P1EM	$1,874	DS-3POP	1.15	21.1	150	91.7	46/23.1	03
	3600	575	254JM	DJ20E1GM	$1,611	DS-3FPO	1.15	24.0	170	90.2	18.9	NNP,LA
	3600	575	254JM	DJ20P1GM	$1,874	DS-3POP	1.15	21.1	150	91.0	18.7	
	1800	230/460	256JM	DJ20P2EM	$1,970	DS-3POP	1.15	22.4	160	93.0	47/23.6	03
25	3600	230/460	256JM	DJ25P1EM	$2,567	DS-3POP	1.15	22.4	160	91.7	57/28.7	03
	1800	208-230/460	284JM	DJ25P2DM	$2,435	DS-3POP	1.15	26.0	225	93.6	58/29	03
30	3600	208-230/460	284JM	DJ30P1DM	$2,901	DS-3POP	1.15	26.0	225	92.4	79-68/34	03
	1800	208-230/460	286JM	DJ30P2DM	$2,892	DS-3POP	1.15	26.0	250	94.1	77-69/34	03
40	3600	208-230/460	286JM	DJ40P1DM	$3,171	DS-3POP	1.15	26.0	250	93.0	104-90/45	03
	3600	575	286JM	DJ40P1GM	$3,171	DS-3POP	1.15	26.0	250	93.0	36	
	1800	208-230/460	324JM	DJ40P2DM	$3,178	DS-3POP	1.15	28.0	385	94.1	102-91/46	03
50	3600	208-230/460	324JM	DJ50P1DM	$3,567	DS-3POP	1.15	28.0	385	93.0	130-117/59	03
	1800	208-230/460	326JM	DJ50P2DM	$3,725	DS-3POP	1.15	28.0	460	94.5	126-113/56	03
60	3600	208-230/460	326JM	DJ60P1DM	$4,916	DS-3POP	1.15	28.0	460	93.6	152-134/67	03

JM Shaft - Footless

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1	1800	208-230/460	143JM	DJ1P2DU	$570	DS-3POV	1.15	16.0	30	85.5	3.2-3.1/1.6	03
1 1/2	1800	208-230/460	145JM	DJ32P2DU	$581	DS-3POV	1.15	16.0	35	86.5	4.4-4.2/2.1	03
2	1800	208-230/460	145JM	DJ2P2DU	$642	DS-3POV	1.15	16.0	35	86.5	5.9-5.6/2.8	03
3	1800	208-230/460	182JM	DJ3P2DU	$758	DS-3POV	1.15	17.0	50	89.5	8.3-7.7/3.8	03
5	1800	208-230/460	184JM	DJ5P2DU	$898	DS-3POV	1.15	17.0	82	89.5	13.7-12.4/6.2	03
7 1/2	1800	208-230/460	213JM	DJ7P2DU	$1,188	DS-3POV	1.15	19.0	90	91.0	20.2-18.5/9.3	03
10	3600	208-230/460	213JM	DJ10P1DU	$1,420	DS-3POV	1.15	19.0	90	90.2	27.1-24.3/12.2	03
	1800	208-230/460	215JM	DJ10P2DU	$1,400	DS-3POV	1.15	19.0	105	91.7	26.3-23.8/11.9	03
15	3600	208-230/460	215JM	DJ15P1DU	$1,809	DS-3POV	1.15	19.0	105	90.2	40-36/18	03
	1800	230/460	254JM	DJ15P2EU	$2,055	DS-3POV	1.15	21.9	150	93.0	37/18.3	
20	3600	230/460	254JM	DJ20P1EU	$2,249	DS-3POV	1.15	25.5	150	91.7	46/23.1	03

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate
Note LA Limited Availability
Note NNP Non-NEMA® Premium

Special Application Close Coupled Pump Three Phase Open Drip Proof (ODP) NEMA®† Premium Efficient



NEMA Premium

DE1

(continued)

JP Shaft - Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Eff.	Full Load Amps	Notes
1	1800	208-230/460	143JP	DJ1P2DP	$487	DS-3POP	1.15	18.0	30	85.5	3.2-3.1/1.6	03
1 1/2	1800	208-230/460	145JP	DJ32P2DP	$513	DS-3POP	1.15	18.0	35	86.5	4.4-4.2/2.1	03
2	1800	208-230/460	145JP	DJ2P2DP	$563	DS-3POP	1.15	18.0	35	86.5	5.9-5.6/2.8	03
3	1800	208-230/460	182JP	DJ3P2DP	$598	DS-3POP	1.15	19.0	50	89.5	8.3-7.7/3.8	03
5	1800	208-230/460	184JP	DJ5P2DP	$645	DS-3POP	1.15	19.0	60	89.5	13.7-12.4/6.2	03
7 1/2	1800	208-230/460	213JP	DJ7P2DP	$943	DS-3POP	1.15	22.0	90	91.0	20.2-18.5/9.3	03
	1200	230/460	254JP	DJ7P3EP	$1,565	DS-3POP	1.15	24.0	150	91.0	18.9/9.5	03
10	3600	208-230/460	213JP	DJ10P1DP	$1,132	DS-3POP	1.15	22.0	90	90.2	27.1-24.3/12.2	03
	1800	208-230/460	215JP	DJ10P2DP	$1,147	DS-3POP	1.15	23.0	105	91.7	26.3-23.8/11.9	03
	1200	230/460	256JP	DJ10P3EP	$2,036	DS-3POP	1.15	25.3	160	91.7	25/12.5	03
15	3600	200	215JP	DJ15P1HP	$1,555	DS-3POP	1.15	23.0	105	90.2	41	
	3600	208-230/460	215JP	DJ15P1DP	$1,555	DS-3POP	1.15	23.0	105	90.2	40-36/18	03
	1800	200	254JP	DJ15P2HP	$1,569	DS-3POP	1.15	27.4	150	93.0	42	
	1800	230/460	254JP	DJ15P2EP	$1,569	DS-3POP	1.15	24.0	150	93.0	37/18.3	03
20	3600	230/460	254JP	DJ20P1EP	$1,882	DS-3POP	1.15	24.0	150	91.7	46/23.1	03
	3600	200	254JP	DJ20P1HP	$1,882	DS-3POP	1.15	24.0	150	91.7	53	
	1800	230/460	256JP	DJ20P2EP	$2,012	DS-3POP	1.15	25.3	160	93.0	47/23.6	03
	1800	200	256JP	DJ20P2HP	$2,012	DS-3POP	1.15	25.3	160	93.0	54	
25	3600	230/460	256JP	DJ25P1EP	$2,461	DS-3POP	1.15	25.3	160	91.7	57/28.7	03
	3600	200	256JP	DJ25P1HP	$2,461	DS-3POP	1.15	25.3	160	91.7	67	
	1800	575	284JP	DJ25E2GP	$2,406	DS-3FPO	1.15	29.0	213	91.7	24.4	NNP,LA
	1800	575	284JP	DJ25P2GP	$2,435	DS-3POP	1.15	29.0	225	93.6	23.1	
	1800	575	284JP	DJ25P2GP	$2,435	DS-3POP	1.15	29.0	225	93.6	23.1	
30	3600	208-230/460	284JP	DJ30P1DP	$2,901	DS-3POP	1.15	29.0	225	92.4	79-68/34	03
	1800	208-230/460	286JP	DJ30P2DP	$2,892	DS-3POP	1.15	29.0	250	94.1	77-69/34	03
40	3600	208-230/460	286JP	DJ40P1DP	$3,171	DS-3POP	1.15	29.0	250	93.0	104-90/45	03
	3600	575	286JP	DJ40E1GP	$3,512	DS-3FPO	1.15	29.0	320	93.0	36	NNP,LA
	3600	575	286JP	DJ40P1GP	$3,171	DS-3POP	1.15	29.0	250	93.0	36	
	1800	208-230/460	324JP	DJ40P2DP	$3,178	DS-3POP	1.15	30.0	454	94.1	102-91/46	03
50	3600	208-230/460	324JP	DJ50P1DP	$3,567	DS-3POP	1.15	30.0	454	93.0	130-117/59	03
	1800	208-230/460	326JP	DJ50P2DP	$3,725	DS-3POP	1.15	30.0	454	94.5	126-113/56	03
60	3600	208-230/460	326JP	DJ60P1DP	$4,915	DS-3POP	1.15	30.0	460	93.6	152-134/67	03

Westcoast Shaft - Footed

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	NEMA Nom. Eff.	Full Load Amps	Notes
7 1/2	1800	208-230/460	213TCZ	DJ7P2DJ	$943	DS-3POP	1.15	21.0	90	91.0	20.2-18.5/9.3	03
10	3600	208-230/460	213TCZ	DJ10P1DJ	$1,132	DS-3POP	1.15	21.0	90	90.2	27.1-24.3/12.2	03
	1800	208-230/460	215TCZ	DJ10P2DJ	$1,147	DS-3POP	1.15	22.0	105	91.7	26.3-23.8/11.9	03
15	3600	208-230/460	215TCZ	DJ15P1DJ	$1,555	DS-3POP	1.15	22.0	105	90.2	40-36/18	03

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 06 Dual voltage ratings, Part Winding Start on low voltage only

Note 16 Motors marked 208-230/460 volts may not meet all NEMA® (MG-1) performance standards when operated at 208 volts

Note LA Limited Availability

Note NNP Non-NEMA® Premium

Replacement Motor Cross Reference

Square Flange - Standard Efficient - Total Horsepower Rated

5.5 Diameter Catalog Number	56 Catalog Number	THP	Voltage	Regal Rexnord	Regal Rexnord	Regal Rexnord	WEG (Formerly Bluffton)
ASQ065	-	0.65	230/115	HSQ065	SQ1032 / USQ1052	B856	-
ASQ095	ASB846	0.95	230/115	HSQ095	SQ1052 / USQ1072	B846 / B852	14796 / 54002
ASQ125	ASB847	1.25	230/115	HSQ125	SQ1072 / USQ1102	B847 / B853	15815 / 54003
ASQ165	ASB848	1.65	230/115	HSQ165	SQ1102 / USQ1152	B848 / B854	12504 / 54004
ASQ225 / ASQ225H	ASB858	2.25	230/115	HSQ225	SQ1152 / USQ1202	B858 / B859	14728 / 18254
ASQ260	ASB748	2.60	230	HSQ260	SQ1202 / USQ1252	B748 / B840	10855 / 13280
-	ASB844	3.45	208-230	-	SQ1302V1	B844	16362
-	ASB850	5.00	208-230	-	-	B1000	-

Square Flange - High Efficiency - Total Horsepower Rated

5.5 Diameter Catalog Number	56 Catalog Number	THP	Voltage	Regal Rexnord	Regal Rexnord	Regal Rexnord	WEG (Formerly Bluffton)
AQC095	ASB845	0.95	230/115	-	QC1052 / UQC1072	B845	11357
AQC125	ASB661	1.25	230/115	-	QC1072 / UQC1102	B2661	16358
AQC165	ASB841	1.65	230/115	-	QC1102 / UQC1152	B2841	16359

Square Flange - Premium Energy Efficient - Total Horsepower Rated

5.5 Diameter Catalog Number	56 Catalog Number	THP	Voltage	Regal Rexnord	Regal Rexnord	Regal Rexnord	WEG (Formerly Bluffton)
-	ASB845	0.95	208-230/115	-	QC1052 / UQC1072	B845	11357
-	ASB661	1.25	208-230/115	-	QC1072 / UQC1102	B2661	16358
-	ASB841	1.65	208-230/115	-	QC1102 / UQC1152	B2841	16359
-	ASB842	2.25	208-230/115	-	SQ1152	B2842	16360
-	ASB843	2.60	208-230	-	SQ1202	B2843	16361
-	ASB844	3.45	208-230	-	SQ1302	B2844	16362
-	ASB850	5.00	208-230	-	-	B1000	

Square Flange - Two Speed - Total Horsepower Rated - Motor Only - Title 20 Compliant

5.5 Diameter Catalog Number	56 Catalog Number	THP	Voltage	Regal Rexnord	Regal Rexnord	Regal Rexnord	WEG (Formerly Bluffton)
-	EB981	1.25/0.20	115	-	SQ1072R	B981	-
-	ASB2980	1.25/0.20	230	-	SQS1072R	B2980	-
-	ASB2982	1.65/0.26	230	-	SQS1102R	B2982	-
-	ASB2983	2.25/0.38	230	-	SQS1152R	B2983	-
-	ASB2984	2.60/0.43	230	-	SQS1202R	B2984	-

Square Flange - Variable Speed with Integrated Timer - Title 20 Compliant

Neptune Catalog Number	Neptune Hybrid Catalog Number	THP	Voltage	Regal Rexnord	Regal Rexnord	Regal Rexnord	WEG (Formerly Bluffton)
-	NPHQ125	1/2 thru 1.25	115/230	-	-	-	-
NPTQ165	NPHQ165	1/2 thru 1.65	115/230	EVQ165	-	ECM16SQU	-
NPTQ225	NPHQ225	1/2 thru 2.25	230	EVQ225	-	ECM27SQU	-
NPTQ270	-	1/2 thru 2.70	230	-	-	ECM27SQU	-

Replacement Motor Cross Reference

Square Flange - Tristar Replacement - Full Rated

5.5 Diameter Catalog Number	56 Catalog Number	HP	SF	Voltage	Regal Rexnord	Regal Rexnord	WEG (Formerly Bluffton)
-	ET3205	1/2	1.98	208-230/115	HSQ1052	-	-
-	ET3207	3/4	1.85	208-230/115	HSQ1072	-	-
-	ET3210	1	1.85	208-230/115	HSQ1102	-	-
-	ET3215	1.5	1.60	208-230/115	HSQ1152	-	-
-	ET3220	2	1.35	208-230	HSQ1202	-	-
-	ET3230	3	1.20	208-230	-	-	-

Square Flange - Tristar Replacement - Up Rated

5.5 Diameter Catalog Number	56 Catalog Number	HP	SF	Voltage	Regal Rexnord	Regal Rexnord	WEG (Formerly Bluffton)
-	ASB846	3/4	1.25	230/115	-	B846 / B852	-
-	ASB847	1	1.25	230/115	-	B847 / B853	-
-	ASB848	1.5	1.10	230/115	-	B848 / B854	-
-	ASB858	2	1.10	230/115	-	B858 / B859	-
-	ASB748	2.5	1.04	230	-	B748 / B840	-
-	ASB844	3	1.15	208-230	-	B2844	-

Square Flange - Three Phase

5.5 Diameter Catalog Number	56 Catalog Number	HP	SF	Voltage	Regal Rexnord	Regal Rexnord	WEG (Formerly Bluffton)
-	EH491	1/2	1.90	208-230/460	Q3052	H491	-
-	EH492	3/4	1.65	208-230/460	Q3072	H492	-
-	EH635	1	1.65	208-230/460	Q3102	H635	-
-	EH636	1.5	1.47	208-230/460	Q3152	H636	-
-	EH637	2	1.30	208-230/460	Q3202	H637	-
-	EH755	3	1.15	208-230/460	Q3302V1	H755	-

C-Flange - Threaded - Standard Efficient - Total Horsepower Rated

5.5 Diameter Catalog Number	56 Catalog Number	THP	Voltage	Regal Rexnord	Regal Rexnord	Regal Rexnord	WEG (Formerly Bluffton)
AST095	ASB126	0.95	230/115	HST080	ST1052 / UST1072	B126 / B227SE	18330 / 54022
AST125	ASB127	1.25	230/115	HST110	ST1072 / UST1102	B127 / B228SE	15443 / 54023
AST165	ASB128	1.65	230/115	HST150	ST1102 / UST1152	B128 / B229SE	14542 / 54024
AST225	ASB129	2.25	230/115	HST225	ST1152 / UST1202	B129 / B230SE	52011 / 12018
AST275	ASB130	2.60	230	HST275	ST1202 / UST1252	B130 / B231SE	52012 / 12020
-	ASB818	3.45	208-230	-	ST1302V1	B818	-
-	ASB819	5.00	208-230	-	-	-	-

C-Flange - Threaded - High Efficiency - Total Horsepower Rated

5.5 Diameter Catalog Number	56 Catalog Number	THP	Voltage	Regal Rexnord	Regal Rexnord	Regal Rexnord	WEG (Formerly Bluffton)
ACT095	-	0.95	230/115	-	CT1052 / UCT1072	-	52008
ACT125	-	1.25	230/115	-	CT1072 / UCT1102	-	52009
ACT165	ASB846	1.65	230/115	-	CT1102 / UCT1152	-	52010

Replacement Motor Cross Reference

C-Flange - Keyed and Threaded - Premium Energy Efficient - Total Horsepower Rated

5.5 Diameter Catalog Number	56 Catalog Number	THP	Voltage	Regal Rexnord	Regal Rexnord	Regal Rexnord	WEG (Formerly Bluffton)
–	ASB656	0.95	208-230/115	–	CK1052	B656	52003
–	ASB657	0.95	208-230/115	–	CT1052 / UCT1072	B657	52008
–	ASB634	1.25	208-230/115	–	CK1072	B634	52004
–	ASB638	1.25	208-230/115	–	CT1072 / UCT1102	B638	52009
–	ASB653	1.65	208-230/115	–	CK1102	B653	52005
–	ASB654	1.65	208-230/115	–	CT1102 / UCT1152	B654	52010
–	ASB795	2.25	208-230/115	–	SK1152	B795	52006
–	ASB796	2.25	208-230/115	–	ST1152	B796	52011
–	ASB808	2.60	208-230	–	SK1202	B808	52077
–	ASB809	2.60	208-230	–	ST1202	B809	52012
–	ASB817	3.45	208-230	–	SK1302V1	B817	12109
–	ASB818	3.45	208-230	–	ST1302V1	B818	17458
–	ASB819	5.00	208-230	–	–	-	–
–	ASB116	5.00	208-230	–	–	B116	–

C-Flange - Two Speed - Threaded - Total Horsepower Rated - Title 20 Compliant

5.5 Diameter Catalog Number	56 Catalog Number	THP	Voltage	Regal Rexnord	Regal Rexnord	Regal Rexnord	WEG (Formerly Bluffton)
–	ASB2973H	1.25/0.20	230	–	STS1072RV1	B2973H	–
–	ASB2975	1.65/0.26	230	–	STS1102RV1	B2975	–
–	ASB2977	2.25/0.38	230	–	STS1152R	B2977	–
–	ASB2979	2.60/0.43	230	–	STS1202R	B2979	–

C-Flange - Variable Speed with Integrated Timer - Threaded - Title 20 Compliant

Neptune Catalog Number	Neptune Hybrid Catalog Number	THP	Voltage	Regal Rexnord	Regal Rexnord	Regal Rexnord	WEG (Formerly Bluffton)
-	NPHT125	1/2 thru 1.25	115/230	-	-	-	-
NPTT165	NPHT165	1/2 thru 1.65	115/230	EVC165	-	ECM16CU	-
NPTT225	NPHT225	1/2 thru 2.25	230	EVC225	-	-	-
NPTT270	-	1/2 thru 2.70	230	-	-	ECM27CU	-

C-Flange - Three Phase - Threaded Shaft - Full Rated

5.5 Diameter Catalog Number	56 Catalog Number	HP	SF	Voltage	Regal Rexnord	Regal Rexnord	WEG (Formerly Bluffton)
–	EH282	1/2	1.60	208-230/460	T3052	H282	–
–	EH451	3/4	1.50	208-230/460	T3072	H451	–
–	EH514	1	1.40	208-230/460	T3102	H514	–
–	EH617	1.5	1.30	208-230/460	T3152	H617	–
–	EH705	2	1.20	208-230/460	T3202	H705	–
–	EH741	3	1.15	208-230/460	-	H741	–

Replacement Motor Cross Reference

C-Flange - Northstar Replacement - Full and Up/MaxRated

5.5 Diameter Catalog Number	56 Catalog Number	HP	SF	Voltage	Regal Rexnord	Regal Rexnord	WEG (Formerly Bluffton)
–	ESN1072	3/4	1.85	208-230/115	–	SN1072	–
–	EUSN1102	1	1.40	208-230/115	–	USN1102	–
–	ESN1102	1	1.85	208-230/115	–	SN1102	–
–	EUSN1152	1.5	1.25	208-230/115	–	USN1152	–
–	ESN1152	1.5	1.60	208-230/115	–	SN1152	–
–	EUSN1202	2	1.20	208-230/115	–	USN1202	–
–	ESN1202	2	1.35	208-230	–	SN1202	–
–	EUSN1252	2.5	1.10	208-230	–	USN1252	–
–	EUSN1302	3	1.20	208-230	–	USN1302	–
–	ESN1302	3	1.60	208-230	–	SN1302	–

C-Flange - Three Phase - Keyed Shaft - Full Rated

5.5 Diameter Catalog Number	56 Catalog Number	HP	SF	Voltage	Regal Rexnord	Regal Rexnord	WEG (Formerly Bluffton)
–	EH281	1/2	1.60	208-230/460	-	H281	–
–	EH450	3/4	1.50	208-230/460	K3072	H450	–
–	EH513	1	1.40	208-230/460	K3102	H513	–
–	EH616	1.5	1.30	208-230/460	K3152	H616	–
–	EH704	2	1.20	208-230/460	K3202	H704	–
–	EH740	3	1.15	208-230/460	-	H740	–

PENTAIR EQ SERIES Pump Replacement Pool Motors

Open Dripproof - Close Coupled Pump - Premium Efficient - Full Service Factor - Full Rated

5.5 Diameter Catalog Number	56 Catalog Number	Frame	HP	SF	Voltage	Regal Rexnord	WEG (Formerly Bluffton)
–	EEQK500	182JMZ	5	1.15	208-230/460	CEQK500	–
–	EEQK750	184JMZ	7.5	1.15	208-230/460	CEQK750	–
–	EEQK1000	213JMZ	10	1.15	208-230/460	CEQK1000	–
–	EEQK1500	215JMZ	15	1.15	208-230/460	CEQK1500	–
–	EEQ500	184JMZ	5	1.15	230	CEQ500	–
–	EEQ750	213JMZ	7.5	1.15	230	CEQ750	–

Totally Enclosed Fan Cooled - Close Coupled Pump - Premium Efficient - Full Service Factor - Full Rated

5.5 Diameter Catalog Number	56 Catalog Number	Frame	HP	SF	Voltage	Regal Rexnord	WEG (Formerly Bluffton)
–	EEQKT500	182JMZ	5	1.15	208-230/460	–	–
–	EEQKT750	184JMZ	7.5	1.15	208-230/460	–	–
–	EEQKT1000	213JMZ	10	1.15	208-230/460	–	–
–	EEQKT1500	215JMZ	15	1.15	208-230/460	–	–

Pool Cleaner - C-Face - Full Rated Service Factor

5.5 Diameter Catalog Number	56 Catalog Number	HP	SF	Voltage	Regal Rexnord Cat. No.	Regal Rexnord / Century Cat. No.	Bluffton Motor Works Cat. No.	SN Tech Cat. No.
–	ASB625	3/4	1.50	230/115	PL1072	B625	–	–
–	ASB668	3/4	1.50	230/115	-	B668	–	–

Replacement Motor Cross Reference

Thru Bolt - 56 Frame - Single Speed

5.5 Diameter Catalog Number	56 Catalog Number	HP	SF	Voltage	Regal Rexnord Cat. No.	Regal Rexnord / Century Cat. No.	Bluffton Motor Works Cat. No.	SN Tech Cat. No.
-	ASB605	3	1.00	230	-	B237	-	-
-	ASB606	4	1.00	230	-	B238	-	-

Thru Bolt - 56 Frame - Two Speed - Soft Start

5.5 Diameter Catalog Number	56 Catalog Number	HP	SF	Voltage	Regal Rexnord Cat. No.	Regal Rexnord / Century Cat. No.	Bluffton Motor Works Cat. No.	SN Tech Cat. No.
-	ASB502	1.5/.18	1.00	230	-	B233	-	-
-	ASB503	2.0/.25	1.00	230	-	B234	-	-
-	ASB505	3.0/.38	1.00	230	-	B235	-	-
-	ASB506	4.0/.50	1.00	230	-	B236	-	-

Thru Bolt - 48 Frame - Single Speed

5.5 Diameter Catalog Number	56 Catalog Number	HP	SF	Voltage	Regal Rexnord Cat. No.	Regal Rexnord / Century Cat. No.	Bluffton Motor Works Cat. No.	SN Tech Cat. No.
AGL50FL1	-	1/2	1.00	115	CBT2052	BN23	13719	-
AGL75FL1	-	3/4	1.00	115	CBT2072	BN24	18889	H909
AGH75FL1	-	3/4	1.00	230	-	-	-	-
AGL10FL1	-	1	1.00	115	CBT2102	BN25	16436	H910
AGH10FL1	-	1	1.00	230	-	-	-	-
AGD15FL1	-	1.5	1.00	230/115	TBT1152D	BN25	-	C1901
SPH20FLC1	-	2	1.00	230	-	BN40	-	-
SPH20FL1	-	2	1.00	230	-	186097	17257	C1456
SPH25FL1	-	2.5	1.00	230	-	-	-	-
SPH30FL1	-	3	1.00	230	-	BN41	-	-

Thru Bolt - 48 Frame - Two Speed - Soft Start

5.5 Diameter Catalog Number	56 Catalog Number	HP	SF	Voltage	Regal Rexnord Cat. No.	Regal Rexnord / Century Cat. No.	Bluffton Motor Works Cat. No.	SN Tech Cat. No.
AGL75FL2	-	3/4/.10	1.00	115	CBS2072	BN36	12562	C1902
AGL10FL2S	-	1.0/.12	1.00	115	CBS2102	BN37/BN38	15698/15700	C1903
AGL15FL2CS	-	1.5/.18	1.00	115	-	BN50	-	-
SPL15FL2S	-	1.5/.18	1.00	115	-	BN60	41000	-
AGH15FL2CS	-	1.5/.18	1.00	230	-	BN34	41001	C1326
SPH20FL2CS	-	2.0/.25	1.00	230	-	BN51	-	-
SPH20FL2S	-	2.0/.25	1.00	230	-	BN61	17525	C1327
SPH25FL2S	-	2.5/.33	1.00	230	-	-	-	-
SPH30FL2S	-	3.0/.38	1.00	230	-	BN62	42005	-

Above Ground Pool - 48 Frame - Single Speed (Thru bolt less base)

5.5 Diameter Catalog Number	56 Catalog Number	HP	SF	Voltage	Regal Rexnord Cat. No.	Regal Rexnord / Century Cat. No.	Bluffton Motor Works Cat. No.	SN Tech Cat. No.
AGL75FL1NB	-	3/4	1.00	115	-	-	-	-
AGL10FL1NB	-	1.0	1.00	115	-	-	-	-

Replacement Motor Cross Reference

Above Ground Pool - 48 Frame - Single Speed - 50Hz - CE Certified

5.5 Diameter Catalog Number	56 Catalog Number	HP	SF	Voltage	Regal Rexnord Cat. No.	Regal Rexnord / Century Cat. No.	Bluffton Motor Works Cat. No.	SN Tech Cat. No.
AGH75FL150	-	3/4	1.00	220-240	-	BN32	-	
AGH10FL150	-	1.0	1.00	220-240	-	BN33	-	

Above Ground Pool - EZ48 Frame - Single Speed - 60Hz - 1.5 Compartment

5.5 Diameter Catalog Number	56 Catalog Number	HP	SF	Voltage	Regal Rexnord Cat. No.	Regal Rexnord / Century Cat. No.	Bluffton Motor Works Cat. No.	SN Tech Cat. No.
EZBN23	-	1/2	1.00	115	CBT2052	BN23/BN23SS	-	-
EZBN24	-	3/4	1.00	115	CBT2072	BN24/BN24SS	-	-
EZBN25	-	1.0	1.00	115	CBT2102	BN25/BN25SS	-	-
EZBV35	-	1.5	1.00	115	-	BV35/BV35SS	-	-
EZBN35	-	1.5	1.00	230/115	TBT1152D	BN35/BN35SS	-	-

Above Ground Pool - EZ48 Frame - Two Speed - 60Hz - 1.5 Compartment

5.5 Diameter Catalog Number	56 Catalog Number	HP	SF	Voltage	Regal Rexnord Cat. No.	Regal Rexnord / Century Cat. No.	Bluffton Motor Works Cat. No.	SN Tech Cat. No.
EZBN36	-	3/4/.10	1.00	115	CBS2072	BN36	-	-
EZBN37	-	1.0/.12	1.00	115	CBS2102	BN37	-	-
EZBN50	-	1.5/.18	1.00	115	TBS1152SV1	BN50	-	-

Above Ground Pool - Hoffinger Replacement

5.5 Diameter Catalog Number	56 Catalog Number	HP	SF	Voltage	Regal Rexnord Cat. No.	Regal Rexnord / Century Cat. No.	Bluffton Motor Works Cat. No.	SN Tech Cat. No.
AGL10FL1H1	-	1	1.00	115	ODB1102V1	BV91	-	-
AGL10FL1H2	-	1	1.00	115	ODB1102	BV90	-	H911
AGL15FL1H2	-	SPL	1.00	115	-	-	-	-

Residential Water System Pump Motors

Horsepower: 1/2 – 3 HP

Phase: Single Phase

Capacitor Start: Capacitor Start electrical designs utilized for superior torque even in the most difficult starting conditions

Voltage Selector Switch: On motors with catalog numbers ending in "-2V"

Mounting Options: NEMA®† 56J, and Square Flange. The Square Flange mounting face incorporates a five-point surface, which supplies extra pump support

Enclosure: Open Drip Proof (ODP)

Compartments: Two-Compartment constructions

Bearings: All Ball Bearing construction. Double sealed ball bearings on both motor ends

Assembly/Removal: Accessible shaft flats and screw driver slots

Shaft Extensions: Corrosion-resistant 303 or 304 stainless steel shaft extensions on U.S. MOTORS® brand two-compartment construction motors.

Agency: UL®† Recognized and CSA®† Certified



Special Application Single Phase, Open Drip Proof (ODP) Jet Pump, Square Flange & C-Face Capacitor Start



APPLICATIONS:

For jet pumps, booster pumps, centrifugal pumps, lawn sprinkler pumps.

FEATURES:

- 303 Stainless Steel Shaft
- C-Face: 7/16-20 UNF2A Thread
- Square Flange: 1/2-20 UNC-2A Thread
- Ball Bearings (Locked Drive End Bearing)
- Continuous Duty
- 60 Hertz
- EZ-Access™ Motor Cover
- 40°C Ambient
- Automatic Reset Thermal Overload Protector
- Round Frame (Without Base), NEMA® 56C C-Face or Square Flange Mounting
- Power Leads Supplied For Proper Connection To Pressure Switch
- Voltage Selector Switch (Catalog Numbers Ending With "-2V" and "UPR")

C-Face, Two Compartment Product, EZ-Access™ Motors

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/2	3600	115/230	56J	JJ0502-2V	$199	DS-3FJP	1.6	13.0	16.5	6.8/3.4	-
3/4	3600	115/230	56J	JJ0752-2V	$212	DS-3FJP	1.5	13.0	19.65	10.6/5.4	-
1	3600	115/230	56J	JJ1002-2V	$238	DS-3FJP	1.6	14.0	24.68	13.6/6.6	-
1 1/2	3600	115/230	56J	JJ1502-2V	$301	DS-3FJP	1.6	14.3	27.07	12.5/6.5	18
2	3600	230	56J	JJ2002-2	$360	DS-3FJP	1.4	15.5	31.3	8.6	18

Square Flange, Two Compartment Product, EZ-Access™ Motors

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/2	3600	115/230	48Y	JS0502-2V	$199	DS-3FJP	1.9	12.8	16.17	8.4/4.2	-
3/4	3600	115/230	48Y	JS0752-2V	$212	DS-3FJP	1.65	13.3	22.16	11.6/5.8	-
1	3600	115/230	48Y	JS1002-2V	$238	DS-3FJP	1.65	13.3	23.89	13.5/7.0	-
1 1/2	3600	115/230	48Y	JS1502-2V	$301	DS-3FJP	1.5	13.5	28	13.5/7.0	18
2	3600	230	48Y	JS2002-2	$360	DS-3FJP	1.3	13.5	27.42	11.0	18

Note 18 Incorporates Run Capacitor

Elevator and Gate & Door Motors

SUBMERSIBLE AND DRY HYDRAULIC ELEVATOR MOTORS

Horsepower: 3 through 125 HP

Frame Sizes: 90 through 404T

Phase: Three Phase

RPM: 3600 or 1800 RPM

Voltage: 200, 208-230/460, 230/460, 460, 575

Enclosure:
Open Drip Proof (ODP) on Dry Hydro

Service Factor:
1.00 SF or greater

Insulation: Class B or F Insulation

Efficiency: Standard Efficient

Agency: UL®† Recognized and CSA®† Certified

COMMERCIAL GATE AND DOOR MOTORS

Horsepower: 1/3 through 1 HP

Phase: Single and Three Phase

RPM: Single Speed 1725 RPM, Two Speed 1625/1325 RPM

Voltage:
- Three Phase, 208/230-460
- Single Phase, 115/208-230
- Gate: Single Phase, Two Speed, 115 only

Enclosure:
- Totally Enclosed Fan Cooled (TEFC) Three Phase
- Open Drip Proof (ODP) Single Phase

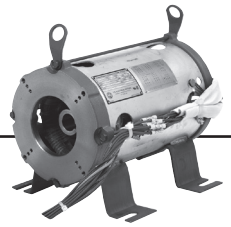
Construction: Rolled steel frame

Mounting:
- Rigid Mount
- Resilient Mount
- C-Face Mount

Bearings: Permanently lubricated ball bearings



Special Application Three Phase Submersible Elevator Motors Z-Flange & L32 Flange



APPLICATIONS:

Z-Flanged motors are suitable for use in elevators in low rise buildings using Allweiler pumps (SUB 140, 210 & 280) or IMO pumps (3SIC-187, 3SIC-200, 3SIC-218, 3SIC-250 & 4SIC-275). L32 Flanged motors for ALLWEILER®† pumps (SUA 140, 210, 280 & 440). Compatibility current at time of publication.

FEATURES:

- Class F Insulation
- Zinc Plated Frame, 32 MM Shaft, Lifting Provisions On Brackets
- Stainless Steel Nameplate On Motor & Mylar For Wall Mount
- 70°C Thermostat Located On Motor Frame
- Single Ball Bearing Design To Fit Most ALLWEILER®† & IMO Sub. Pumps
- 112" External Leads (Butt Splices At Approx. 12" & 47" From Housing)
- Suitable for Wye-Delta Starting
- Intermittent Duty (Rated 80 Starts/Hour In 50°C Oil or 120 Starts/Hour In 40°C Oil)
- CSA®† Certified (#LR39413) & UL®† Component Recognized (#E51488)

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
15	3600	200	160ZBS	EZ15S1HZ	$1,739	DS-3IM	1.00	14.1	101	52	
	3600	230/460	160ZBS	EZ15S1BZ	$1,739	DS-3IM	1.00	14.1	101	45.2/22.6	
	3600	575	160ZBS	EZ15S1GZ	$1,739	DS-3IM	1.00	14.1	101	18.1	
20	3600	200	160ZBS	EZ20S1HZ	$1,780	DS-3IM	1.00	14.1	102	72	
	3600	230/460	160ZBS	EZ20S1BZ	$1,780	DS-3IM	1.00	14.1	100	62/31	
	3600	575	160ZBS	EZ20S1GZ	$1,780	DS-3IM	1.00	14.1	110	24.6	
25	3600	200	160ZBS	EZ25S1HZ	$1,912	DS-3IM	1.00	14.1	100	82	
	3600	230/460	160ZBS	EZ25S1BZ	$1,912	DS-3IM	1.00	14.1	132	70/35	
	3600	575	160ZBS	EZ25S1GZ	$1,912	DS-3IM	1.00	14.1	108	28.3	
30	3600	200	160ZBS	EZ30S1HZ	$2,144	DS-3IM	1.00	14.1	115	100	
	3600	230/460	160LCS	E30S1BZ	$2,144	DS-3IM	1.00	14.1	114	84/42	
	3600	230/460	160ZBS	EZ30S1BZ	$2,144	DS-3IM	1.00	14.1	111	84/42	
	3600	575	160ZBS	EZ30S1GZ	$2,144	DS-3IM	1.00	14.1	109	35	
40	3600	200	160LCS	E40S1HZ	$2,415	DS-3IM	1.00	17.4	113	121	
	3600	200	160ZBS	EZ40S1HZ	$2,415	DS-3IM	1.00	17.5	144	121	
	3600	230/460	160LCS	E40S1BZ	$2,415	DS-3IM	1.00	17.4	160	106/53	
	3600	230/460	160ZBS	EZ40S1BZ	$2,415	DS-3IM	1.00	17.5	150	106/53	
	3600	575	160LCS	E40S1GZ	$2,415	DS-3IM	1.00	17.4	142	42	
	3600	575	160ZBS	EZ40S1GZ	$2,415	DS-3IM	1.00	17.5	160	42	
50	3600	200	160LCS	E50S1HZ	$3,534	DS-3IM	1.00	17.4	157	148	
	3600	200	160ZBS	EZ50S1HZ	$3,534	DS-3IM	1.00	17.5	157	148	
	3600	230/460	160LCS	E50S1BZ	$3,534	DS-3IM	1.00	17.4	165	130/65	
	3600	230/460	160ZBS	EZ50S1BZ	$3,534	DS-3IM	1.00	17.5	150	130/65	
	3600	575	160LCS	E50S1GZ	$3,534	DS-3IM	1.00	17.4	152	52	
	3600	575	160ZBS	EZ50S1GZ	$3,534	DS-3IM	1.00	17.5	150	52	

Special Application Three Phase, Open Drip Proof (ODP) Elevator Motor, Dry Hydraulic Motor



APPLICATIONS:

For elevators where dry hydraulic motors are required, usually five stories or less.

FEATURES:

- CSA®† Certified and UL®† Component Recognized
- 1800 RPM
- 80 Starts Per Hour (100 Starts Per Hour With De-rate in HP)
- F1 Assembly
- 60 Hertz
- Class F Insulation
- 1.00 Service Factor
- Intermittent Duty Rated For Operation in a 40°C Ambient Temperature
- Ball Bearing Design
- 72" Lead Length

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
15	3600	575	213T	DH15S1GF	$1,829	DS-3ID	1.00	16.0	90	15.6	
20	3600	575	215T	DH20S1GF	$2,067	DS-3ID	1.00	17.5	105	20	
	1800	200	254T	DH20S2HF	$2,586	DS-3ID	1.00	22.0	150	58	
	1800	230/460	254T	DH20S2BF	$2,586	DS-3ID	1.00	22.0	162	52/25.9	
	1800	575	254T	DH20S2GF	$2,844	DS-3ID	1.00	22.0	150	20.1	
25	3600	575	254T	DH25S1GF	$2,488	DS-3ID	1.00	22.6	150	24.2	
	1800	200	256T	DH25S2HF	$3,741	DS-3ID	1.00	23.0	160	72	
	1800	230/460	256T	DH25S2BF	$3,741	DS-3ID	1.00	23.0	172	65/32	
	1800	575	256T	DH25S2GF	$4,051	DS-3ID	1.00	23.0	160	25.2	
30	3600	575	256T	DH30S1GF	$2,808	DS-3ID	1.00	23.2	160	28.3	
	1800	200	284T	DH30S2HF	$4,508	DS-3ID	1.00	25.0	225	84	
	1800	230/460	284T	DH30S2BF	$4,508	DS-3ID	1.00	25.0	237	73/36	
	1800	575	284T	DH30S2GF	$4,870	DS-3ID	1.00	25.0	225	29.6	
40	3600	575	284T	DH40S1GF	$3,004	DS-3ID	1.00	24.9	225	39	
	1800	200	286T	DH40S2HF	$5,247	DS-3ID	1.00	25.0	250	110	
	1800	230/460	286T	DH40S2BF	$5,247	DS-3ID	1.00	25.0	262	96/48	
	1800	575	286T	DH40S2GF	$5,518	DS-3ID	1.00	25.0	250	39	
50	1800	200	324T	DH50S2HF	$6,482	DS-3ID	1.00	27.0	420	133	
	1800	230/460	324T	DH50S2BF	$6,482	DS-3ID	1.00	27.0	451	116/58	
	1800	575	324T	DH50S2GF	$6,960	DS-3ID	1.00	27.0	385	47	
60	1800	200	326T	DH60S2HF	$7,794	DS-3ID	1.00	27.0	460	160	
	1800	230/460	326T	DH60S2BF	$7,794	DS-3ID	1.00	27.0	491	139/69	
	1800	575	326T	DH60S2GF	$8,207	DS-3ID	1.00	27.0	460	56	
75	1800	230/460	364T	DH75S2BF	$9,587	DS-3ID	1.00	29.0	580	185/92	
	1800	575	364T	DH75S2GF	$10,129	DS-3ID	1.00	29.0	580	70	
100	1800	230/460	365T	DH100S2BF	$11,739	DS-3ID	1.00	30.0	631	235/118	
	1800	575	365T	DH100S2GF	$12,126	DS-3ID	1.00	30.0	600	94	
125	1800	230/460	404T	DH125S2BF	$12,800	DS-3ID	1.00	32.0	763	288/144	
	1800	575	404T	DH125S2GF	$13,188	DS-3ID	1.00	32.0	750	114	

Special Application Commercial Gate Single Phase, Permanent Split Capacitor Open Drip Proof (ODP)

APPLICATIONS:

For gate openers, hoists and most medium start reversing applications.

FEATURES:

- 40°C Ambient
- 1.0 Service Factor
- Reversible Rotation
- 115 Volt, 60 Hertz
- Permanent Lubricated Ball Bearings
- 3 Lead Connection
- Manual Reset Thermal Overload Protector
- Terminal Board Connections Without Motor Switch
- Lower Inrush And Operating Currents
- Modest Starting Torque
- Allows Frequent Starts
- Continuous Duty Capacitor
- Continuous Duty/Intermittent Duty (1 HP Intermittent)

HP	RPM	Voltage	Frame	Catalog Number	List	Discount Symbol	SF	"C" Dim. (inches)	Ship Wt. (lbs)	Full Load Amps	Notes
1/3	1800	115	56	D13ARM2N9	$524	DS-3FMP	1.00	10.8	20	3.9/4.2	23,35
1/2	1800	115	56	D12ARM2N	$555	DS-3FMP	1.00	9.4	16	5	23
	1800	115	56	D12ARM2N9	$587	DS-3FMP	1.00	10.8	20	5.0/5.7	23,35
3/4	1800	115	56C	D34ARM2NCR	$558	DS-3FMP	1.00	11.9	26	8	23,LA
1	1800	115/230	56H	D1CPA2PH9	$644	DS-3FMP	1.15	12.3	31	8.8/4.4	24,60

Note 23 Manual Reset Thermal Protector Overload
Note 24 Automatic Reset Thermal Protector Overload
Note 35 Resilient Base
Note 60 Capacitor Start
Note LA Limited Availability

Vertical Motors

Horsepower: 1 through 600 HP

Phase: Single & Three Phase

RPM: 3600, 1800 or 1200

Voltage:
- Single Phase, 115/230 or 230 Volts
- Three Phase, 230/460 or 460 Volts
- International Duty, 220/380-440, 380-415 or 575 Volts

Efficiency:
- Premium Efficient
- Premium Efficient/Inverter Duty

Enclosure:
- Weather Protected Type I (WPI)
- Totally Enclosed, Fan Cooled (TEFC)

Mounting: P-Base

Thrust: Normal, High & Extra High

Thrust Bearing Lubrication:
- Normal Thrust - Grease
- High Thrust
  - WPI Up to 280 frame - Grease
  - TEFC Up to 360 frame - Grease
  - WPI 320 frame and larger - Oil
  - TEFC 400 frame and larger - Oil
- Extra High Thrust
  - WPI 320 frame and larger - Oil
  - TEFC Up to 360 frame - Grease

Guide Bearing Lubrication: Grease

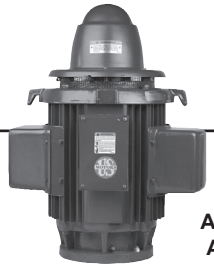
Inverter Duty: Meets NEMA®† MG1

Agency:
- UL®† Recognized and CSA®† Certified

For conversion and accessory options refer to pages 300 - 305.



Vertical HOLLOSHAFT® High Thrust Motors - "P" Base, Single Phase Weather Protected Type I (WPI) Standard Efficient



AUR, AUC

APPLICATIONS:

For use on turbine, mix flow and propeller pumps.

FEATURES:

- Class F Insulation
- 1.15 Service Factor
- Maximum 40°C Ambient, 3,300 Feet Altitude
- Capacitor Start Design
- Corrosion Resistant Mill & Chemical Duty Paint
- NRR = Non-Reverse Ratchet
- **Discount Symbol: DS-7VS**

HP	RPM	Voltage	Frame	Catalog Number	Type	List w/ NRR	List w/ SRC	Down Thrust (lbs.)	Base Dia. (in.)	Cplg Height (in.)	Cplg BX (in.)	Cplg Key Size	Ship Wt (lbs)	Notes
3	1800	115/230	215P	HS3C2PLE	AUR	$4,568	$4,291	2500	10	17-9/16	1	1/4	220	-
5	3600	230	215P	HS5C1KLE	AUR	$4,779	$4,502	2200	10	17-9/16	1	1/4	220	-
	1800	230	254UP	HS5C2KLE	AUC	$5,789	$5,460	2500	10	23-3/8	1	1/4	265	-
7 1/2	3600	230	254UP	HS7C1KLE	AUC	$6,817	$6,488	2600	10	23-3/8	1	1/4	265	-
	1800	230	256UP	HS7C2KLE	AUC	$7,831	$7,455	3300	10	23-3/8	1	1/4	300	-

Vertical HOLLOSHAFT® High Thrust Motors - "P" Base, Three Phase Weather Protected Type I (WPI) Premium Efficient, SINEWAVE OPTIMIZED®

APPLICATIONS:

For use on Turbine, Mix Flow and Propeller Pumps



FEATURES:

- Class F Insulation, Class B Rise at Full Load
- 1.15 Service Factor
- Maximum 40°C Ambient, 3,300 Feet Altitude
- 230/460 Volt Motors Suitable for 230 Volt Part Winding Start
- Premium Efficient Design
- Special Balance
- Corrosion Resistant Mill & Chemical Duty Paint
- 115 Volt Space Heater (through 250 HP)
- NRR = Non-Reverse Ratchet, SRC = Self-Release Coupling
- Refer to Page viii for Guidelines & Compatibility with VFD's
- **Discount Symbol: DS-7VS**

RUS

HP	RPM	Voltage	Frame	Catalog Number	Type	List w/ NRR	List w/ SRC	NEMA Nom. Eff.	Down Thrust (lbs)	Base Dia. (in)	Cplg. Height (in)	Cplg. BX (in)	Cplg. Key Size	Ship Wt. (lbs)	Notes
7 1/2	1800	230/460	213TP	HO7P2BLE	AUS	$3,789	$3,518	91.7	2500	10	18-1/8	1	1/4	210	
	1200	230/460	254TPH	HO7P3BLF	AUS	$4,983	$4,607	90.2	3800	12	23-3/8	1	1/4	265	
10	1800	230/460	215TP	HO10P2BLE	AUS	$4,187	$3,869	91.7	2500	10	18-1/8	1	1/4	220	
	1200	230/460	256TPH	HO10P3BLF	AUS	$5,592	$5,207	91.7	3800	12	23-3/8	1	1/4	300	
15	1800	230/460	254TP	HO15P2BLE	AUS	$4,686	$4,358	93.0	3300	10	23-3/8	1	1/4	265	
	1800	230/460	254TPA	HO15P2BLG	AUS	$4,686	$4,358	93.0	3300	16.5	23-3/8	1	1/4	265	
	1200	230/460	284TPA	HO15P3BLF	AUS	$6,548	$6,137	91.7	3800	12	24-3/4	1	1/4	305	
20	3600	230/460	254TPH	HO20P1BLF	AUS	$4,708	$4,061	91.0	2600	12	23-3/8	1	1/4	265	
	1800	230/460	256TPH	HO20P2BLF	AUS	$5,122	$4,763	93.0	3300	12	24-3/4	1	1/4	300	
	1800	230/460	256TPA	HO20P2BLG	AUS	$5,122	$4,763	93.0	3300	16.5	24-3/4	1	1/4	300	
	1200	230/460	286TPH	HO20P3BLG	AUS	$7,307	$6,838	92.4	3800	16.5	25-7/8	1	1/4	325	
25	3600	230/460	256TPH	HO25P1BLF	AUS	$5,015	$4,368	91.7	2600	12	23-3/8	1	1/4	300	
	1800	230/460	284TPA	HO25P2BLF	AUS	$5,778	$5,374	93.6	3300	12	24-3/4	1	1/4	305	
	1800	230/460	284TPH	HO25P2BLG	AUS	$5,778	$5,374	93.6	3300	16.5	24-3/4	1	1/4	305	
	1200	230/460	324TP	HO25P3BLG	RUS	$8,923	$8,383	93.0	6700	16.5	28-7/32	1	1/4	635	
30	3600	230/460	284TPA	HO30P1BLF	AUS	$5,369	$4,698	91.7	2600	12	24-3/4	1	1/4	305	
	1800	230/460	286TPA	HO30P2BLF	AUS	$6,277	$5,838	94.1	3300	12	24-3/4	1	1/4	325	
	1800	230/460	286TPH	HO30P2BLG	AUS	$6,277	$5,838	94.1	3300	16.5	24-3/4	1	1/4	325	
	1200	230/460	326TP	HO30P3BLG	RUS	$9,916	$9,296	93.6	6700	16.5	28-7/32	1-1/4	3/8	675	
40	3600	230/460	286TPA	HO40P1BLF	AUS	$5,927	$5,228	92.4	2600	12	24-3/4	1	1/4	325	
	1800	230/460	324TPH	HO40P2BLF	RUS	$7,017	$6,526	94.5	5700	12	28-7/32	1-1/4	1/4	635	
	1800	230/460	324TP	HO40P2BLG	RUS	$7,017	$6,526	94.5	5700	16.5	28-7/32	1-1/4	1/4	635	
	1800	460	324TP	HO40P2SLG	RUS	$7,017	$6,526	94.5	5700	16.5	28-7/32	1-1/4	1/4	635	PWS
	1200	230/460	364TP	HO40P3BLGX	RUS	$12,880	$12,124	94.1	11725	16.5	31-5/32	1-1/4	3/8	730	
50	3600	230/460	324TPH	HO50P1BLF	RUS	$8,571	$8,036	93.0	4600	12	28-7/32	1	1/4	635	
	1800	230/460	326TPH	HO50P2BLF	RUS	$8,182	$7,609	94.5	5700	12	28-7/32	1-1/4	1/4	675	
	1800	230/460	326TP	HO50P2BLG	RUS	$8,182	$7,609	94.5	5700	16.5	28-7/32	1-1/4	1/4	675	
	1800	460	326TP	HO50P2SLG	RUS	$8,182	$7,609	94.5	5700	16.5	28-7/32	1-1/4	1/4	675	PWS
	1200	230/460	365TP	HO50P3BLGX	RUS	$15,609	$14,271	94.1	11725	16.5	31-5/32	1-1/4	3/8	800	
60	3600	460	326TP	HO60P1SLG	RUS	$9,841	$9,203	93.6	4600	16.5	28-7/32	1-1/4	1/4	675	PWS
	1800	230/460	364TP	HO60P2BLG	RUS	$9,528	$8,861	95.0	5700	16.5	31-5/32	1-1/4	1/4	730	
	1800	460	364TP	HO60P2SLG	RUS	$9,528	$8,861	95.0	5700	16.5	31-5/32	1-1/4	1/4	730	PWS
	1200	460	404TP	HO60P3SLGX	RUS	$17,329	$16,310	94.5	13650	16.5	36-15/16	1-1/2	3/8	1110	PWS
75	3600	460	364TP	HO75P1SLG	RUS	$11,167	$10,374	93.6	4500	16.5	31-5/32	1-1/4	1/4	730	PWS
	1800	230/460	365TP	HO75P2BLG	RUS	$11,327	$10,534	95.0	5700	16.5	31-5/32	1-1/4	1/4	800	
	1800	460	365TP	HO75P2SLG	RUS	$11,327	$10,534	95.0	5700	16.5	31-5/32	1-1/4	1/4	800	PWS
	1200	460	405TP	HO75P3SLGX	RUS	$19,641	$18,444	94.5	13650	16.5	36-15/16	1-1/2	3/8	1200	PWS
100	3600	460	365TP	HO100P1SLG	RUS	$15,284	$14,209	93.6	4500	16.5	31-5/32	1-1/4	3/8	800	PWS
	1800	230/460	404TP	HO100P2BLG	RUS	$14,376	$13,370	95.4	6700	16.5	36-15/16	1-1/2	3/8	1110	
	1800	460	404TP	HO100P2SLG	RUS	$14,376	$13,370	95.4	6700	16.5	36-15/16	1-1/2	3/8	1110	PWS
	1800	460	404TP	HO100P2SLGX	RUS	$14,858	$13,818	95.4	11725	16.5	36-15/16	1-1/2	3/8	1110	PWS
125	1800	460	405TP	HO125P2SLG	RUS	$17,769	$16,330	95.4	6700	16.5	36-15/16	1-1/2	3/8	1200	PWS
	1800	460	405TP	HO125P2SLGX	RUS	$18,387	$16,959	95.4	11725	16.5	36-15/16	1-1/2	3/8	1200	PWS
150	1800	460	H444TP	HO150P2SLG	RUS	$22,955	$21,655	95.8	9800	16.5	44-25/32	1-11/16	3/8	1500	PWS
	1800	460	H444TP	HO150P2SLGX	RUS	$23,466	$22,166	95.8	17150	16.5	44-25/32	1-11/16	3/8	1500	PWS
	1800	460	H444TPA	HO150P2SLH	RUS	$22,955	$21,655	95.8	9800	20	44-25/32	1-11/16	3/8	1500	PWS
200	1800	460	H445TP	HO200P2SLG	RUS	$28,995	$26,935	95.8	9800	16.5	44-25/32	1-11/16	3/8	1600	PWS
	1800	460	H445TPA	HO200P2SLHX	RUS	$29,974	$27,933	95.8	17150	20	44-25/32	1-11/16	3/8	1600	PWS
250	1800	460	H445TPA	HO250P2SLHX	RUS	$37,811	$36,127	95.8	17150	20	44-25/32	1-11/16	3/8	1600	PWS
300	1800	460	447TPA	HO300P2SLHX	RUS	$43,899	$42,351	95.8	17150	20	49-25/32	1-11/16	3/8	2100	PWS
350	1800	460	447TPA	HO350P2SLHX	RUS	$49,277	$47,771	95.8	17150	20	49-25/32	1-11/16	3/8	2100	PWS
400	1800	460	449TPH	HO400P2SLHX	RUS	$55,213	$53,725	95.8	28500	20	49-13/16	1-15/16	1/2	2900	52,53,PWS
450	1800	460	449TPH	HO450P2SLHX	RUS	$58,702	$57,235	96.2	28500	20	49-13/16	1-15/16	1/2	2900	52,53,PWS
500	1800	460	449TPH	HO500P2SFLHX	RUS	$62,906	$61,439	96.2	28500	20	49-13/16	2-3/16	1/2	2900	52,53,PWS
	1800	460	5008PH	HO500P2SLHX	RUE	$69,896	$68,735	96.2	28500	20	57-1/16	2-3/16	1/2	4200	52,53,PWS
600	1800	460	5008P	HO600P2SFLJX	RUE	$93,512	$91,958	96.2	28500	24-1/2	57-1/16	2-3/16	1/2	4210	52,53,PWS

600	1800	460	5008P	HO600S2SLJX	RU	$84,730	$83,322	95.8	28500	24-1/2	57-1/16	2-3/16	1/2	4210	52,53,PWS,NNP,LA

Note 52 Requires minimal external thrust equal to 30% down thrust value shown
Note 53 Synthetic Oil required
Note LA Limited Availability

Note NNP Non-NEMA® Premium Rating
Note PWS Part Winding Start

Vertical HOLLOSHAFT® High Thrust Motors - "P" Base, Three Phase Weather Protected Type I (WPI) Premium Efficient & Inverter Duty



APPLICATIONS:

For use on turbine, mix flow and propeller pumps.

FEATURES:

- Class F Insulation, Class B Rise at Full Load (Sine Wave Power)
- 1.15 Service Factor (Sine Wave Power)
- Maximum 40°C Ambient, 3,300 Feet Altitude
- 230/460 Volt Motors Suitable for 230 Volt Part Winding Start
- 30 HP & Below Can Be Rerated for 208/415 Volt, 50 Hertz Operation at 1.0 Service Factor (230/460 Volt Ratings Only)
- Premium Efficient Design
- Special Balance
- 115 Volt Space Heater (through 250 HP)
- Normally Closed Thermostats (1 per Phase)
- Corrosion Resistant Mill & Chemical Duty Paint
- Inverter Duty per NEMA®1 MG-1 Part 31 at 1.0 Service Factor
- Shaft Grounding Ring
- Upper Insulated Bearing 400 Frame & Up
- NRR = Non-Reverse Ratchet, SRC = Self-Release Coupling
- A member of the ACCU-SERIES® family of variable speed products
- **Discount Symbol: DS-7VS**

HP	RPM	Voltage	Frame	Catalog Number	Type	List w/NRR	List w/SRC	NEMA Nom. Eff.	Down Thrust (lbs.)	Base Dia (in.)	Cplg Height (in.)	Cplg BX (in.)	Cplg Key Size	Ship Wt. (lbs.)	Notes
15	1800	230/460	254TP	HO15V2BLE	AUSI	$5,226	$4,897	93.0	3300	10	23-3/8	1	1/4	265	51,97,D
	1800	575	254TP	HO15V2GLE	AUSI	$5,226	$4,897	93.0	3300	10	23-3/8	1	1/4	265	51,97,D
20	1800	230/460	256TPH	HO20V2BLF	AUSI	$5,728	$5,352	93.0	3300	12	24-3/4	1	1/4	300	51,97,D
	1800	230/460	256TPA	HO20V2BLG	AUSI	$5,728	$5,352	93.0	3300	16.5	24-3/4	1	1/4	300	51,97,D
	1800	575	256TP	HO20V2GLE	AUSI	$5,728	$5,352	93.0	3300	10	24-3/4	1	1/4	300	51,97,D
25	1800	230/460	284TPA	HO25V2BLF	AUSI	$6,456	$6,038	93.6	3300	12	24-3/4	1	1/4	305	51,97,D
	1800	230/460	284TPH	HO25V2BLG	AUSI	$6,456	$6,038	93.6	3300	16.5	24-3/4	1	1/4	305	51,97,D
	1800	575	284TP	HO25V2GLE	AUSI	$6,456	$6,038	93.6	3300	10	24-3/4	1	1/4	305	51,97,D
30	1800	230/460	286TPA	HO30V2BLF	AUSI	$7,024	$6,559	94.1	3300	12	24-3/4	1	1/4	325	51,97,D
	1800	230/460	286TPH	HO30V2BLG	AUSI	$7,024	$6,559	94.1	3300	16.5	24-3/4	1	1/4	325	51,97,D
	1800	575	286TP	HO30V2GLE	AUSI	$7,024	$6,559	94.1	3300	10	24-3/4	1	1/4	325	51,97,D
40	1800	230/460	324TPH	HO40V2BLF	RUSI	$7,779	$7,296	94.5	5700	12	28-7/32	1-1/4	1/4	635	51,97,D
	1800	230/460	324TP	HO40V2BLG	RUSI	$7,779	$7,296	94.5	5700	16.5	28-7/32	1-1/4	1/4	635	51,97,D
	1800	575	324TP	HO40V2GLG	RUSI	$7,779	$7,296	94.5	5700	16.5	28-7/32	1-1/4	1/4	635	51,97,D
50	1800	230/460	326TP	HO50V2BLG	RUSI	$8,894	$8,317	94.5	5700	16.5	28-7/32	1-1/4	1/4	675	51,97,D
	1800	575	326TP	HO50V2GLG	RUSI	$8,894	$8,317	94.5	5700	16.5	28-7/32	1-1/4	1/4	675	51,97,D
60	1800	460	364TP	HO60V2SLG	RUSI	$10,528	$9,866	95.0	5700	16.5	31-5/32	1-1/4	1/4	730	51,97,D,PWS
	1800	575	364TP	HO60V2GLG	RUSI	$10,528	$9,866	95.0	5700	16.5	31-5/32	1-1/4	1/4	730	51,97,D
75	1800	460	365TP	HO75V2SLG	RUSI	$12,312	$11,505	95.0	5700	16.5	31-5/32	1-1/4	1/4	800	51,97,D,PWS
	1800	575	365TP	HO75V2GLG	RUSI	$12,312	$11,505	95.0	5700	16.5	31-5/32	1-1/4	1/4	800	51,97,D
100	1800	460	404TP	HO100V2SLG	RUSI	$15,885	$14,866	95.4	6700	16.5	36-15/16	1-1/2	3/8	1110	51,97,E,PWS
	1800	460	404TP	HO100V2SLGX	RUSI	$16,418	$15,399	95.4	11725	16.5	36-15/16	1-1/2	3/8	1110	51,97,E,PWS
	1800	575	404TP	HO100V2GLG	RUSI	$15,885	$14,866	95.4	6700	16.5	36-15/16	1-1/2	3/8	1110	51,97,E
125	1800	460	405TP	HO125V2SLG	RUSI	$18,509	$17,275	95.4	6700	16.5	36-15/16	1-1/2	3/8	1200	51,97,E,PWS
	1800	460	405TP	HO125V2SLGX	RUSI	$19,153	$17,919	95.4	11725	16.5	36-15/16	1-1/2	3/8	1200	51,97,E,PWS
	1800	575	405TP	HO125V2GLG	RUSI	$18,509	$17,275	95.4	6700	16.5	36-15/16	1-1/2	3/8	1200	51,97,E
150	1800	460	H444TP	HO150V2SLG	RUSI	$24,562	$23,262	95.8	9800	16.5	44-25/32	1-11/16	3/8	1500	51,97,E,PWS
	1800	460	H444TP	HO150V2SLGX	RUSI	$25,109	$23,809	95.8	17150	16.5	44-25/32	1-11/16	3/8	1500	51,97,E,PWS
	1800	575	H444TP	HO150V2GLG	RUSI	$24,562	$23,262	95.8	9800	16.5	44-25/32	1-11/16	3/8	1500	51,97,E
200	1800	460	H445TPA	HO200V2SLH	RUSI	$31,516	$29,746	95.8	9800	20	44-25/32	1-11/16	3/8	1600	51,97,E,PWS
	1800	460	H445TPA	HO200V2SLHX	RUSI	$32,580	$30,810	95.8	17150	20	44-25/32	1-11/16	3/8	1600	51,97,E,PWS
	1800	575	H445TP	HO200V2GLG	RUSI	$31,516	$29,746	95.8	9800	16.5	44-25/32	1-11/16	3/8	1600	51,97,E
250	1800	460	H445TPA	HO250V2SLH	RUSI	$39,399	$38,066	95.8	9800	20	44-25/32	1-11/16	3/8	1600	51,97,E,PWS
	1800	460	H445TPA	HO250V2SLHX	RUSI	$40,657	$39,324	95.8	17150	20	44-25/32	1-11/16	3/8	1600	51,97,E,PWS
	1800	575	H445TP	HO250V2GLG	RUSI	$39,399	$38,066	95.8	9800	16.5	44-25/32	1-11/16	3/8	1600	51,97,E
300	1800	460	447TPA	HO300V2SLH	RUSI	$45,704	$44,458	95.8	9800	20	49-25/32	1-11/16	3/8	2100	51,97,E,PWS
	1800	460	447TPA	HO300V2SLHX	RUSI	$47,203	$45,957	95.8	17150	20	49-25/32	1-11/16	3/8	2100	51,97,E,PWS
	1800	575	447TP	HO300V2GLG	RUSI	$45,704	$44,458	95.8	9800	16.5	49-25/32	1-11/16	3/8	2100	51,97,E

Vertical HOLLOSHAFT® High Thrust Motors - "P" Base, Three Phase Weather Protected Type I (WPI) Premium Efficient & Inverter Duty

(continued)

HP	RPM	Voltage	Frame	Catalog Number	Type	List w/NRR	List w/SRC	NEMA Nom. Eff.	Down Thrust (lbs.)	Base Dia (in.)	Cplg Height (in.)	Cplg BX (in.)	Cplg Key Size	Ship Wt. (lbs.)	Notes
350	1800	460	447TPA	HO350V2SLH	RUSI	$50,683	$49,437	95.8	9800	20	49-25/32	1-11/16	3/8	2100	51,97,E,PWS
	1800	460	447TPA	HO350V2SLHX	RUSI	$52,422	$51,176	95.8	17150	20	49-25/32	1-11/16	3/8	2100	51,97,E,PWS
	1800	575	447TP	HO350V2GLG	RUSI	$50,683	$49,437	95.8	9800	16.5	49-25/32	1-11/16	3/8	2100	51,97,E
400	1800	460	449TPH	HO400V2SLH	RUSI	$57,514	$56,268	96.2	9500	20	49-13/16	1-15/16	1/2	2900	51,97,E,PWS
	1800	460	449TPH	HO400V2SLHX	RUSI	$61,734	$60,488	96.2	28500	20	49-13/16	1-15/16	1/2	2900	V10,PWS
	1800	575	449TP	HO400V2GLJ	RUSI	$57,514	$56,268	95.8	9500	24.5	49-13/16	1-15/16	1/2	2900	51,97,E
450	1800	460	449TPH	HO450V2SLH	RUSI	$61,148	$59,871	96.2	9500	20	49-13/16	1-15/16	1/2	2900	51,97,E,PWS
	1800	460	449TPH	HO450V2SLHX	RUSI	$65,638	$64,361	96.2	28500	20	49-13/16	1-15/16	1/2	2900	V10,PWS
500	1800	460	449TPH	HO500V2SFLH	RUSI	$66,218	$64,941	96.2	9500	20	49-13/16	2-3/16	1/2	2900	52,53,PWS
	1800	460	449TPH	HO500V2SFLHX	RUSI	$71,060	$69,783	96.2	28500	20	49-13/16	2-3/16	1/2	2900	52,53,PWS
	1800	460	5008PH	HO500V2SLH	RUEI	$73,575	$71,736	96.2	9500	20	57-1/16	2-3/16	1/2	4200	51,97,E,PWS
	1800	460	5008PH	HO500V2SLHX	RUEI	$78,955	$77,116	96.2	28500	20	57-1/16	2-3/16	1/2	4200	V10,PWS
600	1800	460	5008P	HO600V2SFLJX	RUEI	$99,481	$97,530	96.2	28500	24.5	57-1/16	2-3/16	1/2	4210	V10,PWS

Note 51 Equipped with Winding Thermostat
Note 97 Inverter Duty with Inverter Grade Insulation
Note D Includes internal shaft grounding ring
Note E Includes internal shaft grounding ring and upper insulated bearing
Note PWS Part Winding Start
Note V10 Equipped with Winding thermostat, Requires minimal external thrust equal to 30% down thrust for values showed, Synthetic Oil required, Inverter Duty with Inverter Grade insulation, and Includes internal shaft grounding ring and upper insolated bearing

Vertical HOLLOSHAFT® High Thrust Motors - "P" Base, Three Phase Weather Protected Type I (WPI) International Duty

APPLICATIONS:

For use on Turbine, Mix Flow and Propeller Pumps

FEATURES:

- Class F Insulation, Class B Rise at Full Load
- 1.15 Service Factor
- Maximum 50°C Ambient, 3,300 Feet Altitude
- 60Hz Premium Efficient (IE3) Design
- 50Hz Energy Efficient (IE2) Design
- NEMA®† Design B
- Drive End Shaft Slinger
- 230 Volt Space Heater
- Stainless Steel Nameplate
- NRR = Non-Reverse Ratchet, SRC = Self-Release Coupling
- Refer to Page ii-iv for Guidelines & Compatibility with VFD's
- Discount Symbol: DS-7VS

60 Hz, 220/380-440 Volt, 12 Lead Wye-Delta

HP	RPM	Voltage	Frame	Catalog Number	Type	List w/NRR	List w/SRC	NEMA Nom. Eff.	Down Thrust (lbs.)	Base Dia. (in.)	Cplg Height (in.)	Cplg BX (in.)	Cplg Key Size	Ship Wt. (lbs.)	Notes
50	1800	220/380-440	326TP	HO50P2RLG	RUS	$9,000	$8,423	94.5	5700	16.5	28-7/32	1-3/16	1/4	675	53
60	1800	220/380-440	364TP	HO60P2RLG	RUS	$10,480	$9,818	95.0	5700	16.5	31-5/32	1-3/16	1/4	730	53
75	1800	220/380-440	365TP	HO75P2RLG	RUS	$12,460	$11,652	95.4	5700	16.5	31-5/32	1-3/16	1/4	800	14,53
100	1800	220/380-440	404TP	HO100P2RLG	RUS	$15,814	$14,795	95.4	6700	16.5	36-15/16	1-3/16	1/4	1110	53
125	1800	220/380-440	405TP	HO125P2RLG	RUS	$19,546	$18,311	95.4	6700	16.5	36-15/16	1-1/2	3/8	1200	53
150	1800	220/380-440	H444TP	HO150P2RLG	RUS	$25,251	$23,951	95.8	9800	16.5	44-25/32	1-1/2	3/8	1500	53
200	1800	220/380-440	H445TP	HO200P2RLG	RUS	$31,851	$30,504	96.2	9800	16.5	44-25/32	1-1/2	3/8	1600	53
250	1800	220/380-440	447TPA	HO250P2RGLH	RUS	$45,419	$43,938	96.2	9800	20	49-25/32	1-11/16	3/8	2100	53
300	1800	220/380-440	447TPA	HO300P2RLHX	RUS	$48,289	$46,730	96.2	9800	20	49-25/32	1-11/16	3/8	2100	53
350	1800	220/380-440	449TPH	HO350P2RGLHX	RUS	$56,095	$54,603	96.2	16625	20	49-26/32	1-15/16	1/2	2800	53

50 Hz, 380-415 Volt, 6 Lead Wye-Delta

HP	RPM	Voltage	Frame	Catalog Number	Type	List w/NRR	List w/SRC	NEMA Nom. Eff.	Down Thrust (lbs.)	Base Dia. (in.)	Cplg Height (in.)	Cplg BX (in.)	Cplg Key Size	Ship Wt. (lbs.)	Notes
50	1500	380-415	326TP	HO50E2TLG	RUE	$9,282	$8,733	92.7	5700	16.5	28-7/32	1-3/16	1/4	675	53
60	1500	380-415	364TP	HO60E2TLG	RUE	$10,823	$10,195	93.1	5700	16.5	31-5/32	1-3/16	1/4	675	53
75	1500	380-415	365TP	HO75E2TLG	RUE	$14,170	$13,202	93.5	5700	16.5	31-5/32	1-3/16	1/4	675	53
100	1500	380-415	404TP	HO100E2TLG	RUE	$16,294	$15,326	94.0	6700	16.5	36-15/16	1-3/16	1/4	1110	53
125	1500	380-415	405TP	HO125E2TLG	RUE	$22,627	$21,392	94.3	6700	16.5	36-15/16	1-1/2	3/8	1110	53
150	1500	380-415	H444TP	HO150E2TLG	RUE	$26,046	$24,811	94.5	9800	16.5	44-25/32	1-1/2	3/8	1500	53
200	1500	380-415	H445TP	HO200E2TLG	RUE	$32,802	$31,522	94.9	9800	16.5	44-25/32	1-1/2	3/8	1600	53
250	1500	380-415	447TPA	HO250P2TLH	RUE	$51,127	$49,568	95.1	9800	20	49-25/32	1-11/16	3/8	2100	53
300	1500	380-415	447TPA	HO300E2TLH	RUE	$54,422	$52,930	95.1	9800	20	49-25/32	1-11/16	3/8	2100	53
350	1500	380-415	447TPA	HO350E2TLH	RUE	$57,861	$56,369	95.1	9800	20	49-25/32	1-11/16	3/8	2800	53

NOTE: Alternative Coupling Sizes per Frame Size are listed on pages 264-266.
Most stock VHS Motors include a Non-Reverse Ratchet (NRR), as indicated by their Catalog Number. To order a motor with a Self-Release Coupling (SRC), add an "N" as the last character in the Catalog Number. Example: HO50S2BLG includes NRR; HO50S2BLGN is SRC.

Note 14 NEMA®† Design A
Note 53 Synthetic Oil required

Vertical HOLLOSHAFT® High Thrust Motors - "P" Base, Three Phase Totally Enclosed Fan Cooled (TEFC) Premium Efficient, SINEWAVE OPTIMIZED®



APPLICATIONS:

For use on turbine, mix flow and propeller pumps.

FEATURES:

- Class F Insulation, Class B Rise at Full Load
- 1.15 Service Factor
- Maximum 40°C Ambient, 3,300 Feet Altitude
- 230/460 Volt Motors Suitable for 230V PWS on 250-320 Frame
- 30 HP & Below Can Be Rerated for 208/415 Volt, 50 Hertz Operation at 1.0 Service Factor
- Premium Efficient Design
- Special Balance
- 115 Volt Space Heater
- Corrosion Resistant Mill & Chemical Duty Paint
- NRR = Non-Reverse Ratchet, SRC = Self-Release Coupling
- Refer to Page viii for Guidelines & Compatibility with VFD's
- **Discount Symbol: DS-7VS**

HP	RPM	Voltage	Frame	Catalog Number	Type	List w/ NRR	List w/ SRC	NEMA Nom. Eff	Down Thrust (lbs.)	Base Dia. (in.)	Cplg Height (in.)	Cplg BX (in.)	Cplg Key Size	Ship Wt (lbs)	Notes
5	3600	230/460	184TP	HT5P1BLE	TUS	$3,666	$3,333	88.5	2200	10	17-9/16	1	1/4	170	-
	1800	230/460	184TP	HT5P2BLE	TUS	$3,443	$3,110	90.2	2500	10	17-9/16	1	1/4	170	-
7 1/2	3600	230/460	213TP	HT7P1BLE	TUS	$3,807	$3,464	89.5	2200	10	18-13/16	1	1/4	210	-
	1800	230/460	213TP	HT7P2BLE	TUS	$3,731	$3,388	91.7	2500	10	18-13/16	1	1/4	210	-
10	3600	230/460	215TP	HT10P1BLE	TUS	$4,137	$3,785	90.2	2200	10	18-13/16	1	1/4	220	-
	1800	230/460	215TP	HT10P2BLE	TUS	$4,052	$3,700	91.7	2500	10	18-13/16	1	1/4	220	-
15	3600	230/460	215TP	HT15P1BLE	TUS	$4,650	$4,237	91.0	2200	10	18-13/16	1	1/4	220	-
	1800	230/460	254TP	HT15P2BLE	TUS	$5,650	$5,227	92.4	3300	10	22-15/16	1	1/4	265	-
20	1800	230/460	256TP	HT20P2BLE	TUS	$6,290	$5,802	93.0	3300	10	22-15/16	1	1/4	300	-
25	1800	230/460	284TPA	HT25P2BLF	TUS	$7,096	$6,551	93.6	3300	12	26-9/16	1	1/4	320	-
30	1800	230/460	286TPA	HT30P2BLF	TUS	$7,819	$7,209	93.6	3300	12	26-9/16	1	1/4	330	-
40	1800	230/460	324TP	HT40P2BLG	TUS	$9,902	$9,221	94.5	4500	16-1/2	28-1/2	1-1/4	1/4	665	-
50	1800	230/460	326TP	HT50P2BLG	TUS	$11,426	$10,618	94.5	4500	16-1/2	28-1/2	1-1/4	1/4	690	-
60	1800	460	364TP	HT60P2CLG	TUS	$14,172	$13,172	95.0	5600	16-1/2	30	1-1/4	1/4	900	-
75	1800	460	365TP	HT75P2CLG	TUS	$16,778	$15,567	95.4	5600	16-1/2	30	1-1/4	1/4	925	-
100	1800	460	405TP	HT100P2CLG	TUS	$22,580	$20,946	95.4	7000	16-1/2	39-15/16	1-1/2	3/8	1500	-
125	1800	460	444TP	HT125P2CLG	TUS	$31,411	$29,542	95.4	9300	16-1/2	42-1/2	1-1/2	3/8	1800	-
150	1800	460	447TP	HT150P2CLG	TUS	$37,074	$34,792	95.8	9300	16-1/2	46	1-1/2	3/8	2300	-
200	1800	460	447TP	HT200P2CLG	TUS	$49,499	$46,311	96.2	9300	16-1/2	46	1-11/16	3/8	2300	-
250	1800	460	449TP	HT250P2CLJX	JUE	$58,355	$57,003	96.2	15400	24-1/2	56-7/8	1-11/16	3/8	3600	-
300	1800	460	449TP	HT300P2CLJX	JUE	$64,200	$62,688	96.2	15400	24-1/2	56-7/8	1-11/16	3/8	3800	-

Vertical HOLLOSHAFT® High Thrust Motors - "P" Base, Three Phase Totally Enclosed Fan Cooled (TEFC) CORRO-DUTY®, Premium Efficient, Inverter Duty



APPLICATIONS:

For use on turbine, mix flow and propeller pumps.

FEATURES:

- Class H Insulation, Class B Rise at Full Load
- 1.15 Service Factor
- Maximum 40°C Ambient, 3,300 Feet Altitude
- 230/460 Volt Motors Suitable for 230V PWS on 250-320 Frame
- Premium Efficient Design
- Special Balance
- 115 Volt Space Heater
- Normally Closed Thermostats (1 per Phase)
- CORRO-DUTY® - All Cast Iron Construction
- Inverter Duty per NEMA® MG-1 Part 31 at 1.0 Service Factor
- Shaft Grounding Ring
- Upper Insulated Bearing 400 Frame & Up
- NRR = Non-Reverse Ratchet, SRC = Self-Release Coupling
- A member of the ACCU-SERIES® family of variable speed products
- **Discount Symbol: DS-7VS**

HP	RPM	Voltage	Frame	Catalog Number	Type	List w/ NRR	List w/ SRC	NEMA Nom. Eff.	Down Thrust (lbs)	Base Dia. (in)	Cplg. Height (in)	Cplg. BX (in)	Cplg. Key Size	Ship Wt. (lbs)	Notes
5	3600	230/460	184TP	CHT5V1BLE	TUCI	$3,893	$3,560	88.5	2200	10	17-1/2	1	1/4	180	51,97,D
	3600	575	184TP	CHT5V1GLE	TUCI	$3,893	$3,560	88.5	2200	10	17-1/2	1	1/4	180	51,97,D
	1800	230/460	184TP	CHT5V2BLE	TUCI	$3,654	$3,321	89.5	2500	10	17-1/2	1	1/4	180	51,97,D
	1800	575	184TP	CHT5V2GLE	TUCI	$3,654	$3,321	89.5	2500	10	17-1/2	1	1/4	180	51,97,D
7 1/2	3600	230/460	213TP	CHT7V1BLE	TUCI	$4,044	$3,701	89.5	2200	10	17-1/2	1	1/4	220	51,97,D
	3600	575	213TP	CHT7V1GLE	TUCI	$4,044	$3,701	89.5	2200	10	17-1/2	1	1/4	220	51,97,D
	1800	230/460	213TP	CHT7V2BLE	TUCI	$3,962	$3,619	91.7	2500	10	17-1/2	1	1/4	220	51,97,D
	1800	575	213TP	CHT7V2GLE	TUCI	$3,962	$3,619	91.7	2500	10	17-1/2	1	1/4	220	51,97,D
10	3600	230/460	215TP	CHT10V1BLE	TUCI	$4,398	$4,046	90.2	2200	10	17-1/2	1	1/4	230	51,97,D
	3600	575	215TP	CHT10V1GLE	TUCI	$4,398	$4,046	90.2	2200	10	17-1/2	1	1/4	230	51,97,D
	1800	230/460	215TP	CHT10V2BLE	TUCI	$4,307	$3,955	91.7	2500	10	17-1/2	1	1/4	230	51,97,D
	1800	575	215TP	CHT10V2GLE	TUCI	$4,307	$3,955	91.7	2500	10	17-1/2	1	1/4	230	51,97,D
15	3600	230/460	254TP	CHT15V1BLE	TUCI	$4,945	$4,532	91.0	3300	10	22-15/16	1	1/4	395	51,97,D
	3600	575	254TP	CHT15V1GLE	TUCI	$4,945	$4,532	91.0	3300	10	22-15/16	1	1/4	395	51,97,D
	1800	230/460	254TP	CHT15V2BLE	TUCI	$6,019	$5,596	92.4	3300	10	22-15/16	1	1/4	395	51,97,D
	1800	575	254TP	CHT15V2GLE	TUCI	$6,019	$5,596	92.4	3300	10	22-15/16	1	1/4	395	51,97,D
20	1800	230/460	256TP	CHT20V2BLE	TUCI	$6,703	$6,215	93.0	3300	10	22-15/16	1	1/4	405	51,97,D
	1800	575	256TP	CHT20V2GLE	TUCI	$6,703	$6,215	93.0	3300	10	22-15/16	1	1/4	405	51,97,D
25	1800	230/460	284TPA	CHT25V2BLF	TUCI	$7,565	$7,020	93.6	3300	12	26-9/16	1	1/4	500	51,97,D
	1800	575	284TPA	CHT25V2GLF	TUCI	$7,565	$7,020	93.6	3300	12	26-9/16	1	1/4	500	51,97,D
30	1800	230/460	286TPA	CHT30V2BLF	TUCI	$8,337	$7,727	93.6	3300	12	26-9/16	1	1/4	520	51,97,D
	1800	575	286TPA	CHT30V2GLF	TUCI	$8,337	$7,727	93.6	3300	12	26-9/16	1	1/4	520	51,97,D
40	1800	230/460	324TP	CHT40V2BLG	TUCI	$10,564	$9,883	94.5	4500	16-1/2	28-1/2	1-1/2	3/8	740	51,97,D
	1800	575	324TP	CHT40V2GLG	TUCI	$10,564	$9,883	94.1	4500	16-1/2	28-1/2	1-1/2	3/8	740	51,97,D
50	1800	230/460	326TP	CHT50V2BLG	TUCI	$12,194	$11,386	94.5	4500	16-1/2	28-1/2	1-1/2	3/8	750	51,97,D
	1800	575	326TP	CHT50V2GLG	TUCI	$12,194	$11,386	94.5	4500	16-1/2	28-1/2	1-1/2	3/8	750	51,97,D
60	1800	460	364TP	CHT60V2CLG	TUCI	$15,131	$14,131	95.0	5600	16-1/2	30	1-1/4	1/4	925	51,97,D
	1800	575	364TP	CHT60V2GLG	TUCI	$15,131	$14,131	95.0	5600	16-1/2	30	1-1/4	1/4	925	51,97,D
75	1800	460	365TP	CHT75V2CLG	TUCI	$17,917	$16,706	95.4	5600	16-1/2	30	1-1/4	1/4	940	51,97,D
	1800	575	365TP	CHT75V2GLG	TUCI	$17,917	$16,706	95.4	5600	16-1/2	30	1-1/4	1/4	940	51,97,D
100	1800	460	405TP	CHT100V2CLG	TUCI	$24,122	$22,488	95.4	7000	16-1/2	39-15/16	1-1/2	3/8	1600	51,97,E
	1800	575	405TP	CHT100V2GLG	TUCI	$24,122	$22,488	95.4	7000	16-1/2	39-15/16	1-1/2	3/8	1600	51,97,E
125	1800	460	444TP	CHT125V2CLG	TUCI	$33,598	$31,729	95.4	9300	16-1/2	42-1/2	1-1/2	3/8	1900	51,97,E
	1800	575	444TP	CHT125V2GLG	TUCI	$33,598	$31,729	95.4	9300	16-1/2	42-1/2	1-1/2	3/8	1900	51,97,E
150	1800	460	447TP	CHT150V2CLG	TUCI	$39,655	$37,373	95.8	9300	16-1/2	46	1-1/2	3/8	2300	51,97,E
	1800	575	447TP	CHT150V2GLG	TUCI	$39,655	$37,373	95.8	9300	16-1/2	46	1-1/2	3/8	2300	51,97,E
200	1800	460	447TP	CHT200V2CLG	TUCI	$52,944	$49,756	96.2	9300	16-1/2	46	1-11/16	3/8	2300	51,97,E
	1800	575	447TP	CHT200V2GLG	TUCI	$52,944	$49,756	96.2	9300	16-1/2	46	1-11/16	3/8	2300	51,97,E
250	1800	460	449TP	CHT250V2CLJX	JUCEI	$61,776	$60,424	96.2	15400	24-1/2	56-7/8	1-11/16	3/8	3800	51,97,E
	1800	575	449TP	CHT250V2GLJX	JUCEI	$61,776	$60,424	96.2	15400	24-1/2	56-7/8	1-11/16	3/8	3800	51,97,E
300	1800	460	449TP	CHT300V2CLJX	JUCEI	$67,994	$66,482	96.2	15400	24-1/2	56-7/8	1-15/16	1/2	3900	51,97,E
	1800	575	449TP	CHT300V2GLJX	JUCEI	$67,994	$66,482	96.2	15400	24-1/2	56-7/8	1-15/16	1/2	3900	51,97,E

Note 51 Equipped with Winding Thermostat
Note 97 Inverter Duty with Inverter Grade Insulation
Note D Includes internal shaft grounding ring
Note E Includes internal shaft grounding ring and upper insulated bearing

Vertical Solid Shaft Normal Thrust - "P" Base Three Phase, WPI, Premium Efficient

APPLICATIONS:

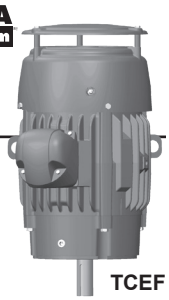
For use on vertical end suction, short couple pumps, centrifugal and non-clog pumps.

FEATURES:

- Class F Insulation, Class B Rise at Full Load On 60Hz Sine Wave Power
- 1.15 Service Factor (Sine Wave)
- 40°C Ambient, NEMA®† Design B Performance
- Corrosion Resistant Mill & Chemical Duty Paint
- 230/460 Volt Motors Suitable for 230 Volt Part Winding Start
- 30HP & Below can be Rerated for 208/415 Volt, 50 Hertz Operation at 1.0 Service Factor
- Refer to Page vii for Suitability of IHP Motors on Variable Frequency Drives
- **Discount Symbol: DS-7NS**

HP	RPM	Voltage	Frame	Catalog Number	Type	List	NEMA Nom. Eff.	Down Thrust (lbs)	Base Dia. (in)	Ship Wt. (lbs)	Notes
3	1800	230/460	182VP	NO3P2BE	AVS	$1,716	89.5	390	10	150	-
5	1800	230/460	184VP	NO5P2BE	AVS	$2,638	89.5	490	10	170	-
7 1/2	1800	230/460	213VP	NO7P2BE	AVS	$3,070	91.0	560	10	210	-
10	1800	230/460	215VP	NO10P2BE	AVS	$3,448	91.7	640	10	220	-
15	1800	230/460	254VP	NO15P2BE	AVS	$3,966	93.0	640	10	265	-
20	1800	230/460	256VP	NO20P2BE	AVS	$4,526	93.0	640	10	300	-
25	1800	230/460	284VPZ	NO25P2BE	AVS	$4,851	93.6	640	10	305	-
30	1800	230/460	286VPZ	NO30P2BE	AVS	$5,455	94.1	640	10	325	-
40	1800	230/460	324VP	NO40P2BG	RVS	$5,793	94.1	640	16-1/2	635	-
50	1800	230/460	326VP	NO50P2BG	RVS	$6,873	94.5	640	16-1/2	675	-
100	1800	230/460	404VPZ	NO100P2BG	RVS	$11,700	95.4	720	16-1/2	1110	-
125	1800	230/460	405VPZ	NO125P2BG	RVS	$14,134	95.4	720	16-1/2	1200	-

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) CORRO-DUTY® NEMA®† Premium Efficient, Vertical C-Face



TCEF

APPLICATIONS:

For pulp & paper, mill & chemical and any other severe duty environments found in the process industries.

FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- All Cast Iron Construction (Steel Frame On 140 Frame)
- Corrosion Resistant Mill & Chemical Duty Paint
- Stainless Steel Nameplate
- Shaft Slinger On Both Ends For IP54 Protection
- Regreasable Bearings 140 Frame & Up, Lifting Provisions 180 Frame & Up
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- 50 Hz. rated at 190/380V (140-250 Frame) or 380V (280 Frame & Larger)
- 1.15 Service Factor @ 60 Hz.
- Special Balance (< 0.08 In/Sec Vibration)
- Open Bearings 180-447 (Double Shielded Bearings on 140 Frame)
- Steel Canopy Cap/Drip Cover (Cast Iron on 140 Frame)
- Cast Iron Inner Bearing Caps (180 Frame & Larger)
- Condensation Drain With Threaded Brass Breather Plug
- Oversized Cast Iron Conduit Box - 1 Size Larger Than NEMA®† Standard
- Zinc Plated Hardware
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- **Discount Symbol: Catalog #s beginning with C is DS-3CE**
  Catalog #s beginning with CD are DS-3CEW

HP	RPM	Voltage	Frame	Catalog Number	List	NEMA Nom. Eff.	Full Load Amps	Ship Wt. (lbs.)	Notes
1	3600	230/460	143TC	C1P1DCR	$818	80.0	2.9-2.7/1.4	65	03,105
	1800	230/460	145TC	C1P2DCR	$796	85.5	3.1-3/1.5	65	03,105
1 1/2	3600	230/460	143TC	C32P1DCR	$891	84.0	4.2-3.9/2	65	03,105
	1800	230/460	145TC	C32P2DCR	$866	86.5	4.5-4.3/2.1	65	03,105
2	3600	230/460	145TC	C2P1DCR	$1,013	86.5	5.5-4.9/2.4	70	03,105
	1800	230/460	145TC	C2P2DCR	$926	86.5	4-3.8/2	70	03,105
3	3600	230/460	182TC	C3P1DCR	$1,122	87.5	8.4-7.8/3.9	100	03,105
	1800	230/460	182TC	C3P2DCR	$1,021	89.5	8.4-7.8/3.9	100	03,105
5	3600	230/460	184TC	C5P1DCR	$1,342	88.5	13.4-12.2/6.1	110	03,105
	1800	230/460	184TC	C5P2DCR	$1,145	89.5	13.7-12.5/6.3	110	03,105
7 1/2	3600	230/460	213TC	C7P1DCR	$1,665	91.0	19.9-17.8/8.9	160	03,105
	1800	230/460	213TC	C7P2DCR	$1,536	91.7	20.1-18.6/9.3	160	03,105
10	3600	230/460	215TC	C10P1DCR	$1,896	91.0	26.4-23.5/11.8	175	03,105
	1800	230/460	215TC	C10P2DCR	$1,789	91.7	26.5-23.9/12	175	03,105
15	3600	230/460	254TC	C15P1DCR	$2,617	91.0	40-35/17.5	300	03,105
	1800	230/460	254TC	C15P2DCR	$2,396	92.4	40-37/18.4	300	03,105
20	3600	230/460	256TC	C20P1DCR	$3,141	91.0	53-46/23.1	340	03,105
	1800	230/460	256TC	C20P2DCR	$2,856	93.0	52-47-23.5	340	03,105
25	3600	230/460	284TSC	CD25P1ESCR	$3,207	91.7	58.0/28.8	320	105,G
	1800	230/460	284TC	CD25P2ECR	$3,124	93.6	58.0/29.1	350	105,G
	1800	230/460	284TSC	CD25P2ESCR	$3,124	93.6	58.0/29.1	350	105,G
30	3600	230/460	286TSC	CD30P1ESCR	$3,715	91.7	69.0/35.0	320	105,G
	1800	230/460	286TC	CD30P2ECR	$3,585	93.6	70.0/35.0	360	105,G
	1800	230/460	286TSC	CD30P2ESCR	$3,585	93.6	70.0/35.0	360	105,G
40	3600	460	324TSC	C40P1FSCR	$5,824	92.4	46	600	03
	1800	460	324TC	C40P2FCR	$5,234	94.1	46	600	03
	1800	460	324TSC	C40P2FSCR	$5,234	94.1	46	600	03
50	3600	460	326TSC	C50P1FSCR	$7,235	93.0	56	625	03
	1800	460	326TC	C50P2FCR	$6,221	94.5	56	625	03
	1800	460	326TSC	C50P2FSCR	$6,221	94.5	56	625	03
60	3600	460	364TSC	C60P1FSCR	$9,632	93.6	68	750	03
	1800	460	364TC	C60P2FCR	$8,912	95.0	69	750	03
	1800	460	364TSC	C60P2FSCR	$8,912	95.0	69	750	03

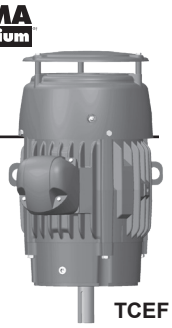
Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 105 208 Volt Suitable

Note G 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 200/400 volt 50 Hz, 460V 60 Hz ratings operate on 400V 50 Hz; Full 60 & 50 Hz data on Nameplate

General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) CORRO-DUTY® NEMA®† Premium Efficient, Vertical C-Face

(continued)



TCEF

HP	RPM	Voltage	Frame	Catalog Number	List	NEMA Nom. Eff.	Full Load Amps	Ship Wt. (lbs.)	Notes
75	3600	460	365TSC	C75P1FSCR	$11,801	93.6	83	910	03
	1800	460	365TC	C75P2FCR	$11,015	95.4	84	910	03
	1800	460	365TSC	C75P2FSCR	$11,015	95.4	84	910	03
100	3600	460	405TSC	C100P1FSCR	$16,042	94.1	112	1300	03
	1800	460	405TC	C100P2FCR	$14,022	95.4	113	1300	03
	1800	460	405TSC	C100P2FSCR	$14,022	95.4	113	1300	03
125	3600	460	444TSC	C125P1FSCR	$19,461	95.0	144	1660	03,12
	1800	460	444TC	C125P2FCR	$16,896	95.4	147	1660	03
	1800	460	444TSC	C125P2FSCR	$16,896	95.4	147	1660	03
150	3600	460	445TSC	C150P1FSCR	$23,468	95.0	176	1750	03,12
	1800	460	445TC	C150P2FCR	$19,664	95.8	171	1750	03
	1800	460	445TSC	C150P2FSCR	$19,664	95.8	171	1750	03
200	3600	460	447TSC	C200P1FSCR	$29,321	95.4	220	2100	03,12
	1800	460	447TC	C200P2FCR	$23,716	96.2	224	2100	03
	1800	460	447TSC	C200P2FSCR	$23,716	96.2	224	2100	03

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 12 Unidirectional Fan – CCW direction facing opposite drive end (FODE)

Vertical Solid Shaft Normal Thrust - "P" Base Three Phase Totally Enclosed Fan Cooled (TEFC), CORRO-DUTY® NEMA®† Premium Efficient



TVCS

APPLICATIONS:

For pulp & paper, mill & chemical and any other severe duty environments found in the process industries.

FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- All Cast Iron Construction
- Corrosion Resistant Mill & Chemical Duty Paint
- Stainless Steel Nameplate
- Shaft Slinger On Both Ends For IP54 Protection
- Type HP Shaft And Shaft/Flange Tolerances per NEMA®† MG1-18.252
- Regreasable Bearings 180 Frame & Up, Lifting Provisions 180 Frame & Up
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- 50 Hz. rated at 200/400V (140-280 Frame) or 380V (320 Frame & Larger)
- Special Balance (< 0.08 In/Sec Vibration)
- Upper Thrust Bearing Open Bearings 180-447
- Steel Canopy Cap/Drip Cover
- Cast Iron Inner Bearing Caps (180 Frame & Larger)
- Condensation Drain With Threaded Brass Breather Plug
- Oversized Cast Iron Conduit Box - 1 Size Larger Than NEMA®† Standard
- Zinc Plated Hardware
- **Discount Symbol: DS-7CE**

HP	RPM	Voltage	Frame	Catalog Number	List	Down Thrust (lbs)	Base Dia. (In)	NEMA Nom. Eff.	Full Load Amps	Ship Wt. (lbs.)	Notes
3	3600	230/460	182HP	CNT3P1EE	$1,459	350	10	86.5	8.2/4.1	110	G
	1800	230/460	182HP	CNT3P2EE	$1,327	420	10	89.5	7.7/3.9	130	G
5	3600	230/460	184HP	CNT5P1EE	$1,745	350	10	88.5	12.3/6.1	120	G
	1800	230/460	184HP	CNT5P2EE	$1,489	420	10	89.5	12.7/6.3	130	G
7 1/2	3600	230/460	213HP	CNT7P1EE	$2,165	520	10	89.5	18.5/9.2	170	G
	1800	230/460	213HP	CNT7P2EE	$1,997	640	10	91.7	19.3/9.6	200	G
	1800	230/460	213HP	CNT7P2DE	$1,997	635	10	91.7	18.5/9.3	220	03, LA
10	3600	230/460	215HP	CNT10P1EE	$2,465	520	10	90.2	23.6/11.8	190	G
	1800	230/460	215HP	CNT10P2EE	$2,326	640	10	91.7	25.7/12.8	210	G
	1800	230/460	215HP	CNT10P2DE	$2,326	635	10	91.7	23.9/12.0	230	03, LA
15	3600	230/460	254HP	CNT15P1EE	$3,140	900	10	91.0	35.0/17.5	260	G
	1800	230/460	254HP	CNT15P2EE	$2,875	1110	10	92.4	36.0/18.0	290	G
20	3600	230/460	256HP	CNT20P1EE	$3,770	900	10	91.0	46.0/22.9	300	G
	1800	230/460	256HP	CNT20P2EE	$3,427	1110	10	93.0	47.0/23.7	320	G
25	3600	230/460	284HP	CNT25P1EE	$4,696	1050	10	91.7	58.0/28.8	380	G
	1800	230/460	284HP	CNT25P2EE	$4,212	1380	10	93.6	58.0/29.2	400	G
30	3600	230/460	286HP	CNT30P1EE	$5,369	1050	10	91.7	69.0/35.0	380	G
	1800	230/460	286HP	CNT30P2EE	$4,780	1380	10	93.6	70.0/35.0	420	G
40	3600	460	324HP	CNT40P1FG	$6,698	1090	16-1/2	92.4	46	740	03
	1800	460	324HP	CNT40P2FG	$6,020	1395	16-1/2	94.1	46	740	03
50	3600	460	326HP	CNT50P1FG	$8,320	1090	16-1/2	93.0	56	750	03
	1800	460	326HP	CNT50P2FG	$7,154	1395	16-1/2	94.5	56	750	03
60	3600	460	364HP	CNT60P1FG	$11,077	1360	16-1/2	93.6	68	925	03
	1800	460	364HP	CNT60P2FG	$10,294	1800	16-1/2	95.0	69	925	03
75	3600	460	365HP	CNT75P1FG	$13,571	1360	16-1/2	93.6	83	940	03
	1800	460	365HP	CNT75P2FG	$12,667	1800	16-1/2	95.4	84	940	03
100	3600	460	405HP	CNT100P1FG	$18,448	1825	16-1/2	94.5	112	1600	03
	1800	460	405HP	CNT100P2FG	$16,125	2300	16-1/2	95.4	113	1600	03
125	3600	460	444HP	CNT125P1FG	$22,380	1210	16-1/2	95.8	142	1900	03
	1800	460	444HP	CNT125P2FG	$19,430	1530	16-1/2	95.4	147	1900	03
150	3600	460	445HP	CNT150P1FG	$26,988	1210	16-1/2	95.8	171	2000	03
	1800	460	445HP	CNT150P2FG	$22,614	1530	16-1/2	95.8	171	2000	03
200	3600	460	447HP	CNT200P1FG	$33,720	1210	16-1/2	96.2	217	2300	03
	1800	460	447HP	CNT200P2FG	$27,273	1530	16-1/2	96.2	224	2300	03

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note G 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 200/400 volt 50 Hz, 460V 60 Hz ratings operate on 400V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note LA Limited Availability

HOLLOSHAFT® Motors
Steady Bushing Kits

FEATURES:

Steady bushings are designed to fit HOLLOSHAFT® motors and will give the mechanical characteristics of a solid shaft motor. Be sure to enter steady bushings with the motor order. Steady bushings will be included with the motor attached to the skid for customer installation in the field. Product listed may not be available from stock.

Frame	Type	Kit Part Number	Bore Size	List Price
182-215	AUS, AUSI, TUS, TUCI	365649	0.750	$202
		978141	0.875	$202
		365650	1.000	$202
254-286	AUS, AUSI, TUS	365651	0.750	$202
		978142	0.875	$202
		365657	1.000	$202
		978143	1.063	$202
		365659	1.188	$202
		365662	1.250	$202
284-286	TUCI	365663	1.000	$202
		365664	1.188	$202
		365665	1.250	$202
		978146	1.500	$202
324-326	RUS, RUSI, TUS, TUCI	978147	1.000	$300
		365666	1.188	$300
		365667	1.250	$300
		978148	1.313	$300
		365668	1.438	$300
		365669	1.500	$300
364-365	RUS, RUSI	978147	1.000	$300
		365666	1.188	$300
		365667	1.250	$300
		978148	1.313	$300
		365668	1.438	$300
		365669	1.500	$300
364-365	TUS, TUCI	978149	1.000	$300
		365670	1.188	$300
		365671	1.250	$300
		365672	1.438	$300
		365673	1.500	$300
		978150	1.563	$300
		978151	1.625	$300
		978153	1.688	$300
		978152	1.750	$300
404-405	RUS, RUSI	978154	1.188	$300
		978155	1.250	$300
		365674	1.438	$300
		365675	1.500	$300
		978156	1.563	$300
		365676	1.688	$300
		978157	1.813	$300

Discount Symbol: DS-7VS

HOLLOSHAFT® Motors
Steady Bushing Kits

FEATURES:

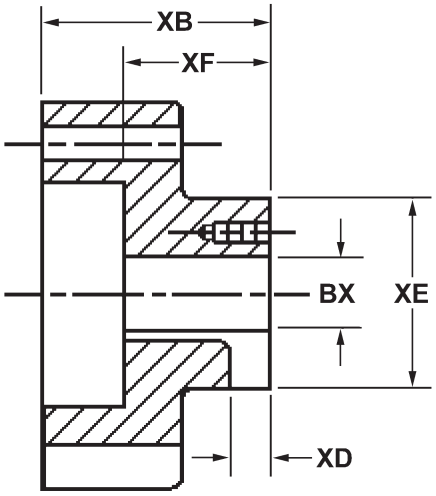
Steady bushings are designed to fit HOLLOSHAFT® motors and will give the mechanical characteristics of a solid shaft motor. Be sure to enter steady bushings with the motor order. Steady bushings will be included with the motor attached to the skid for customer installation in the field. Product listed may not be available from stock.

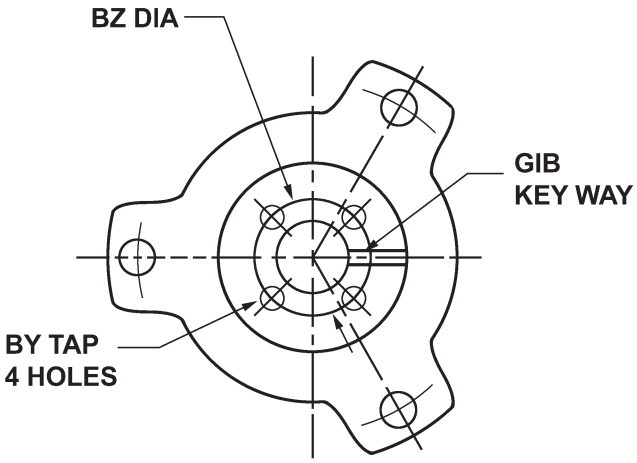
Frame	Type	Kit Part Number	Bore Size	List Price
404-405	TUS, TUCI	365677	1.438	$300
		365678	1.500	$300
		978158	1.563	$300
		978159	1.625	$300
		365679	1.688	$300
		978160	1.750	$300
		978161	1.875	$300
		365680	1.938	$300
H444-447	RUS, RUSI	978162	1.313	$300
		365677	1.438	$300
		365678	1.500	$300
		365679	1.688	$300
		978160	1.750	$300
		365680	1.938	$300
		978163	2.125	$300
		365681	2.188	$300
		365682	2.250	$300
444-447	TUS, TUCI	2070898	1.188	$300
		2070899	1.438	$300
		2070900	1.500	$300
		2070901	1.563	$300
		2070902	1.625	$300
		2070903	1.688	$300
		2070904	1.750	$300
		2070905	1.875	$300
		2070906	1.938	$300
449	RUS, RUSI	2074162	1.688	$418
		2087668*	1.750	$418
		2074161	1.938	$418
		2087669*	2.125	$418
		2074160	2.188	$418
		2087670*	2.375	$418
		2087671*	2.438	$418
		2087672*	2.500	$418
449	HUS, HUSI, JUE, JUCEI	970273	1.688	$418
		970274	1.938	$418
		970275	2.125	$418
		970276	2.188	$418
		970277	2.375	$418
		970278	2.438	$418
		970279	2.500	$418
5008-5012	RUE, RUEI	2037052	1.688	$418
		2037054	1.938	$418
		2037055*	2.125	$418
		2037056	2.188	$418
		2037057*	2.250	$418
		2037058*	2.375	$418
		2037059	2.438	$418
		2037060*	2.500	$418

Discount Symbol: DS-7VS

* Product listed may not be available from stock.

HOLLOSHAFT®
Drive Coupling Part Numbers





FRAME	TYPE	PART NO.	BORE SIZE		KEY	BY	BZ	XB	XD	XE	XF
			NOMINAL	ACTUAL							
182-215	AUS, AUSI, TUS, TUCI, AUR	159002	0.750	0.751	0.188	10-32	1.375	1.750	0.344	2.000	1.125
		181107	0.875	0.876	0.188	10-32	1.375	1.750	0.406	2.000	1.125
		159001	1.000	1.001	0.250	10-32	1.375	1.750	0.406	2.000	1.125
		157744	BLANK	0.624	-	-	-	1.750	-	2.000	1.125
254-256	AUS, AUSI, TUS, TUCI, AUC	174431	0.750	0.751	0.188	10-32	1.375	2.563	0.344	2.250	1.625
		181105	0.875	0.876	0.188	10-32	1.375	2.563	0.344	2.250	1.625
		B 102999	1.000	1.001	0.250	10-32	1.375	2.563	0.406	2.250	1.625
		779353*	1.063	1.063	0.250	10-32	1.375	2.563	0.406	2.250	1.625
		B 104720	1.188	1.188	0.250	.25-20	1.750	2.563	0.406	2.250	1.625
		152434	1.250	1.251	0.250	.25-20	1.750	2.563	0.406	2.250	1.625
		366983	1.250	1.251	0.375	.25-20	1.750	2.563	0.531	2.250	1.625
		B 102986	BLANK	0.751	-	-	-	2.563	-	2.250	1.625
284-286	AUS, AUSI, TUS	174431	0.750	0.751	0.188	10-32	1.375	2.563	0.344	2.250	1.625
		181105	0.875	0.876	0.188	10-32	1.375	2.563	0.344	2.250	1.625
		B 102999	1.000	1.001	0.250	10-32	1.375	2.563	0.406	2.250	1.625
		779353*	1.063	1.063	0.250	10-32	1.375	2.563	0.406	2.250	1.625
		B 104720	1.188	1.188	0.250	.25-20	1.750	2.563	0.406	2.250	1.625
		152434	1.250	1.251	0.250	.25-20	1.750	2.563	0.406	2.250	1.625
		366983	1.250	1.251	0.375	.25-20	1.750	2.563	0.531	2.250	1.625
		B 102986	BLANK	0.751	-	-	-	2.563	-	2.250	1.625
284-286	TUCI	922477*	0.750	0.751	0.188	10-32	1.375	2.563	0.406	2.625	1.625
		181104	0.875	0.876	0.188	10-32	1.375	2.563	0.406	2.625	1.625
		A 112000-000	1.000	1.001	0.250	10-32	1.375	2.563	0.406	2.625	1.625
		A 108186-000	1.188	1.188	0.250	.25-20	1.750	2.563	0.406	2.625	1.625
		922970*	1.313	1.313	0.250	.25-20	1.750	2.563	0.406	2.625	1.625
		162457-000	1.250	1.251	0.250	.25-20	1.750	2.563	0.406	2.625	1.625
		366982-000	1.250	1.251	0.375	.25-20	1.750	2.563	0.531	2.625	1.625
		661737*	1.500	1.501	0.250	.25-20	2.125	2.563	0.406	2.625	1.625
		B 108184-000	BLANK	0.751	-	-	-	2.563	-	2.625	1.625

** Gib key is not included.

HOLLOSHAFT®
Drive Coupling Part Numbers

FRAME	TYPE	PART NO.	BORE SIZE		KEY	BY	BZ	XB	XD	XE	XF
			NOMINAL	ACTUAL							
324-326	RUS, RUSI, TUS, TUCI	136731	1.000	1.001	0.250	10-32	1.375	2.938	0.406	2.875	1.938
		132607	1.188	1.188	0.250	.25-20	1.750	2.938	0.406	2.875	1.938
		162458	1.250	1.251	0.250	.25-20	1.750	2.938	0.406	2.875	1.938
		132608	1.250	1.251	0.375	.25-20	1.750	2.938	0.531	2.875	1.938
		795905*	1.313	1.313	0.375	.25-20	1.750	2.938	0.531	2.875	1.938
		132609	1.438	1.438	0.375	.25-20	2.125	2.938	0.531	2.875	1.938
		132610	1.500	1.501	0.375	.25-20	2.125	2.938	0.531	2.875	1.938
		B 108565	BLANK	0.751	-	-	-	2.938	-	2.875	1.938
364-365	RUS, RUSI	136731	1.000	1.001	0.250	10-32	1.375	2.938	0.406	2.875	1.938
		132607	1.188	1.188	0.250	.25-20	1.750	2.938	0.406	2.875	1.938
		162458	1.250	1.251	0.250	.25-20	1.750	2.938	0.406	2.875	1.938
		132608	1.250	1.251	0.375	.25-20	1.750	2.938	0.531	2.875	1.938
		795905*	1.313	1.313	0.375	.25-20	1.750	2.938	0.531	2.875	1.938
		132609	1.438	1.438	0.375	.25-20	2.125	2.938	0.531	2.875	1.938
		132610	1.500	1.501	0.375	.25-20	2.125	2.938	0.531	2.875	1.938
		B 108565	BLANK	0.751	-	-	-	2.938	-	2.875	1.938
364-365	TUS, TUCI	471208*	1.000	1.001	0.250	.25-20	1.375	3.813	0.406	3.625	2.750
		172313	1.188	1.188	0.250	.25-20	1.750	3.813	0.406	3.625	2.750
		172315	1.250	1.251	0.250	.25-20	1.750	3.813	0.406	3.625	2.750
		366985	1.250	1.251	0.375	.25-20	1.750	3.813	0.531	3.625	2.750
		172314	1.438	1.438	0.375	.25-20	2.125	3.813	0.531	3.625	2.750
		118296	1.500	1.501	0.375	.25-20	2.125	3.813	0.531	3.625	2.750
		929360*	1.563	1.563	0.375	.25-20	2.125	3.813	0.531	3.625	2.750
		789957*	1.625	1.626	0.375	.25-20	2.125	3.813	0.531	3.625	2.750
		118297*	1.688	1.688	0.375	.25-20	2.500	3.813	0.531	3.625	2.750
		118298*	1.750	1.751	0.375	.25-20	2.500	3.813	0.531	3.625	2.750
		118295	BLANK	0.751	-	-	-	3.813	-	3.625	2.750
404-405	RUS, RUSI	133000	1.188	1.188	0.250	.25-20	1.750	3.406	0.406	3.125	2.406
		707806*	1.250	1.251	0.250	.25-20	1.750	3.406	0.406	3.125	2.406
		661856	1.250	1.251	0.375	.25-20	1.750	3.406	0.531	3.125	2.406
		133002	1.438	1.438	0.375	.25-20	2.125	3.406	0.531	3.125	2.406
		133003	1.500	1.501	0.375	.25-20	2.125	3.406	0.531	3.125	2.406
		766777*	1.563	1.563	0.375	.25-20	2.500	3.406	0.531	3.125	2.406
		149451	1.688	1.688	0.375	.25-20	2.500	3.406	0.531	3.125	2.406
		928124*	1.813	1.813	0.375	.25-20	2.500	3.406	0.531	3.125	2.406
		133005	BLANK	0.751	-	-	-	3.406	-	3.125	2.406
404-405	TUS, TUCI	471208*	1.000	1.001	0.250	.25-20	1.750	3.813	0.406	3.625	2.750
		172313	1.188	1.188	0.250	.25-20	1.750	3.813	0.406	3.625	2.750
		172315	1.250	1.251	0.250	.25-20	1.750	3.813	0.406	3.625	2.750
		366985	1.250	1.251	0.375	.25-20	1.750	3.813	0.531	3.625	2.750
		172314	1.438	1.438	0.375	.25-20	2.125	3.813	0.531	3.625	2.750
		118296	1.500	1.501	0.375	.25-20	2.125	3.813	0.531	3.625	2.750
		929360*	1.563	1.563	0.375	.25-20	2.125	3.813	0.531	3.625	2.750
		789957*	1.625	1.626	0.375	.25-20	2.125	3.813	0.531	3.625	2.750
		118297	1.688	1.688	0.375	.25-20	2.500	3.813	0.531	3.625	2.750
		118298*	1.750	1.751	0.375	.25-20	2.500	3.813	0.531	3.625	2.750
		926393*	1.875	1.876	0.500	.25-20	2.500	3.813	0.531	3.625	2.750
		118299*	1.938	1.938	0.500	.25-20	2.500	3.813	0.531	3.625	2.750
		118295	BLANK	0.751	-	-	-	3.813	-	3.625	2.750

** Gib key is not included.

HOLLOSHAFT®
Drive Coupling Part Numbers

FRAME	TYPE	PART NO.	BORE SIZE		KEY	BY	BZ	XB	XD	XE	XF
			NOMINAL	ACTUAL							
H444-447	RUS, RUSI	945496*	1.313	1.313	0.375	.25-20	2.125	4.000	0.688	3.688	2.875
		132576	1.438	1.438	0.375	.25-20	2.125	4.000	0.688	3.688	2.875
		132577	1.500	1.501	0.375	.25-20	2.125	4.000	0.531	3.688	2.875
		132578	1.688	1.688	0.375	.25-20	2.500	4.000	0.531	3.688	2.875
		742204*	1.750	1.751	0.375	.25-20	2.500	4.000	0.531	3.688	2.875
		132579	1.938	1.938	0.500	.25-20	2.500	4.000	0.688	3.688	2.875
		934083*	2.125	2.126	0.500	.375-16	3.250	4.000	0.688	4.000	2.875
		136874	2.188	2.188	0.500	.375-16	3.250	4.000	0.688	4.000	2.875
		136875	2.250	2.251	0.500	.375-16	3.250	4.000	0.688	4.000	2.875
		131805	BLANK	0.751	-	-	-	4.000	-	3.688	2.875
444-447	TUS, TUCI	172314	1.438	1.438	0.375	.25-20	2.125	3.813	0.531	3.875	2.750
		118296	1.500	1.501	0.375	.25-20	2.125	3.813	0.531	3.875	2.750
		929360*	1.563	1.563	0.375	.25-20	2.125	3.813	0.531	3.875	2.750
		789957*	1.625	1.626	0.375	.25-20	2.125	3.813	0.531	3.875	2.750
		118297	1.688	1.688	0.375	.25-20	2.500	3.813	0.531	3.875	2.750
		118298	1.750	1.751	0.375	.25-20	2.500	3.813	0.531	3.875	2.750
		926393*	1.875	1.876	0.500	.25-20	2.500	3.813	0.531	3.875	2.750
		118299	1.938	1.938	0.500	.25-20	2.500	3.813	0.531	3.875	2.750
		118295-000	BLANK	0.751	-	-	-	2.563	-	3.625	2.750
449-5008	RUS, RUSI, RUE, RUEI, JUE, JUCEI	129679	1.688	1.688	0.375	.25-20	2.500	4.375	0.531	4.750	3.063
		A 113288	1.938	1.938	0.500	.25-20	2.500	4.375	0.688	4.750	3.063
		A 113287	2.125	2.126	0.500	.375-16	3.250	4.375	0.688	4.750	3.063
		A 113289	2.188	2.188	0.500	.375-16	3.250	4.375	0.688	4.750	3.063
		863877	2.250	2.251	0.500	.375-16	3.250	4.375	0.688	4.750	3.063
		A 113313	2.375	2.376	0.625	.375-16	3.250	4.375	25/32	4.750	3.063
		A 113290	2.438	2.438	0.625	.375-16	3.250	4.375	25/32	4.750	3.063
		A 113314	2.500	2.501	0.625	.375-16	3.750	4.375	25/32	4.750	3.063
		A 113285	BLANK	-	-	-	-	4.375	-	4.750	3.063
5012	RUE, RUEI	803186*	1.688	1.688	0.375	.250-20	2.500	5.125	0.500	5.000	3.625
		235069*	1.938	1.938	0.500	.250-20	2.500	5.125	0.500	5.000	3.625
		248380*	2.125	2.126	0.625	.375-16	3.250	5.125	0.500	5.000	3.625
		143112*	2.188	2.188	0.500	.375-16	3.250	5.125	0.500	5.000	3.625
		238062*	2.250	2.251	0.500	.375-16	3.250	5.125	0.500	5.000	3.625
		A143113*	2.438	2.438	0.625	.375-16	3.250	5.125	0.500	5.000	3.625
		249156*	2.500	2.501	0.625	.375-16	3.250	5.125	0.500	5.000	3.625
		143115*	2.688	2.688	0.625	.375-16	3.750	5.125	0.500	5.000	3.625
		143116*	2.750	2.751	0.625	.375-16	3.250	5.125	0.500	5.000	3.625
		143111*	BLANK	BLANK	-	-	-	5.125	-	5.000	3.625

** Gib key is not included.
*Product listed may not be available from stock.

Kits & Accessories

Fractional & Integral Horsepower Motors

A Variety of Kits & Accessories Available for Field Conversion

Kits & Accessories are available for easy and quick field conversions of many U.S. MOTORS® brand fractional and integral stock motor products. The following pages outline our current available kits and accessories.

Refer to the description field on the Fractional Horsepower Motor (FHP) Accessories page to identify the correct kit or accessory for your stock FHP motor application.

Use the chart below to assist in identifying the correct kit or accessory for your stock Integral Horsepower motor application.

Integral Horsepower Motor Type Code Identification Chart:

Type Code	Motor Description	Phase	Efficiency
CARB®†	Compact Aligning Roller Bearing		
CE	841 PLUS® Motor	Three Phase	Premium Efficient
CTE	HOSTILE DUTY® TEFC Motor	Three Phase	Premium Efficient
CTI	HOSTILE DUTY® TEFC Motor	Three Phase	Inverter Duty
FCT	HOSTILE DUTY® TEFC Motor	Three Phase	Energy Efficient
FD, FR	Open Drip Proof Motor	Three Phase	Energy Efficient
DE, RE	Open Drip Proof Motor	Three Phase	Premium Efficient
FUT	UNIMOUNT® TEFC Motor	Three Phase	Energy Efficient
J	TITAN® TEFC Motor		
JAD	Automotive Duty Motor	Three Phase	Energy Efficient
JCE	TITAN® TEFC Motor & CORRO-DUTY® Motor		Premium Efficient
JDE	Automotive Duty Motor	Three Phase	Premium Efficient
TCE	CORRO-DUTY® TEFC Motor	Three Phase	Premium Efficient
TCI	CORRO-DUTY® TEFC Motor	Three Phase	Inverter Duty
UT	UNIMOUNT® TEFC Motor	Three Phase	Standard Efficient
UTE	UNIMOUNT® TEFC Motor	Three Phase	Premium Efficient
UTF	UNIMOUNT® TEFC Footless Motor	Three Phase	Standard Efficient
UTNX	*ACCU-Torq*® Motor	Three Phase	Vector Duty

If you need assistance with available Kits & Accessories, contact your Territory Manager or Customer Service Representative.

Phone: 855-487-6686

World Motor C-Face Kits

APPLICATIONS:

Kit designed for conversion of off-the-shelf motors to accommodate a C Flange Mount on World Motor Construction.

CTE, CTI
JDE (Automotive Duty)

Frame	Catalog Number	List	Discount Symbol	AK Dimension	Notes
140	2064247	$150	DS-3TE	4-1/2"	40,NR
180	2063436	$217	DS-3TE	4-1/2"	40
	2063437	$200	DS-3TE	8-1/2"	40
210	2060434	$275	DS-3TE	8-1/2"	40
250	2059784	$320	DS-3TE	8-1/2"	40,41
280	2059321	$383	DS-3TE	10-1/2"	41
320	2060743	$550	DS-3TE	12-1/2"	41
360	2061478	$750	DS-3TE	12-1/2"	41
400	2065880	$1,250	DS-3TE	12-1/2"	42
440T	2066545	$1,583	DS-3TE	16"	NC
440TS	2066399	$1,583	DS-3TE	16"	NC

TCE, CE

Frame	Catalog Number	List	Discount Symbol	AK Dimension	Notes
140	2064224	$150	DS-3TE	4-1/2"	40, IN, NR
180	2063392	$242	DS-3TE	8-1/2"	40, IN
	2063391	$242	DS-3TE	4-1/2"	40, IN
210	2060203	$292	DS-3TE	8-1/2"	40, IN
250	2059695	$375	DS-3TE	8-1/2"	40, IN
280	2046247	$417	DS-3TE	10-1/2"	IN
320	2060739	$583	DS-3TE	12-1/2"	IN
360	2061427	$783	DS-3TE	12-1/2"	IN
400	2065842	$1,250	DS-3TE	12-1/2"	IN
440T	2066299	$1,583	DS-3TE	16"	IN
440TS	2066298	$1,583	DS-3TE	16"	IN, NC

CE (400/440 Frame)

Frame	Catalog Number	List	Discount Symbol	AK Dimension	Notes
400	2066054 & 900460	$1,725	DS-3TE	12-1/2"	
440T	2066353 & 900461	$2,163	DS-3TE	16"	42

Note 40 Non-NEMA® "BA" Dimension
Note 41 Pulley End Bearing Clamp provision
Note 42 Not usable on Short Shaft (TS or US)
Note IN Inpro Seal is not available
Note NC Not CE
Note NR Cannot Regrease

C-Face Kits

APPLICATIONS:

Kit designed for conversion of off-the-shelf motors to accommodate a C Flange Mount.

HOSTILE DUTY® Type CTE, CTI

Frame	Catalog Number	List	Discount Symbol	AK Dimension	Notes
140	888910	$150	DS-3TE	4-1/2"	40
180	2002477	$217	DS-3TE	4-1/2"	40
	2002475	$200	DS-3TE	8-1/2"	40
210	2002518	$275	DS-3TE	8-1/2"	40
250	649894	$320	DS-3TE	8-1/2"	40,41
280	646574	$383	DS-3TE	10-1/2"	41
320	2003209	$550	DS-3TE	12-1/2"	41
360	2003135	$750	DS-3TE	12-1/2"	41

UNIMOUNT® Type UTE

Frame	Catalog Number	List	Discount Symbol	AK Dimension	Notes
56-140	374790	$60	DS-3TE	4-1/2"	40
180	362843	$90	DS-3TE	4-1/2"	40
	362842	$120	DS-3TE	8-1/2"	40
210	365033	$110	DS-3TE	8-1/2"	40
250	365568	$160	DS-3TE	8-1/2"	40
280	370421	$333	DS-3TE	10-1/2"	

CORRO-DUTY® & 841 PLUS® Severe Duty Types TCE, TCI & CE

Frame	Catalog Number	List	Discount Symbol	AK Dimension	Notes
140	430512	$200	DS-3TE	4-1/2"	40,NC
180	427672	$242	DS-3TE	4-1/2"	40
	427670	$242	DS-3TE	8-1/2"	40
210	425854	$292	DS-3TE	8-1/2"	40
250	426051	$375	DS-3TE	8-1/2"	40
280	428973	$417	DS-3TE	10-1/2"	
320	424742	$583	DS-3TE	12-1/2"	
360	427416	$783	DS-3TE	12-1/2"	
400	646592	$1,250	DS-3TE	12-1/2"	NC,AP
440	427503	$1,583	DS-3TE	16"	42
440TS	427505	$1,583	DS-3TE	16"	NC,AP

CORRO-DUTY® Type JCE

Frame	Catalog Number	List	Discount Symbol	AK Dimension	Notes
449T	2042521	$2,030	DS-3TE	16"	42
449TS/TM	2042522	$2,030	DS-3TE	16"	

Shaft Grounding C-Face Kits

APPLICATIONS:

Kit designed for conversion of off-the-shelf motors to accommodate a C Flange Mount with MGS Grounding Seal.

ACCU-Torq Types CTI, TCI, TCBI (CT)

Frame	Catalog Number	List	Discount Symbol	AK Dimension	Notes
280	2063313	$383	DS-3TE	10-1/2"	
320	2063317	$550	DS-3TE	12-1/2"	
360	2063322	$750	DS-3TE	12-1/2"	
400	646591	$1,250	DS-3TE	12-1/2"	
440	2063328	$1,583	DS-3TE	16"	
440	2063325	$1,583	DS-3TE	16"	
449	2063332	$2,030	DS-3TE	16"	
449	2063330	$2,030	DS-3TE	16"	

Note 40 Non-NEMA® "BA" Dimension
Note 41 Pulley End Bearing Clamp Provision
Note 42 Not usable on Short Shaft (TS or US)

Note AP Can be used for CTE, JDE
Note NC Not CE

Note: 449T Model must have 6220 Drive End Brg. & 6315 Opp. Drive End Brg. 449TS/TM Model must have 6315 Drive End Brg. & 6315 Opp. Drive End Brg.

World Motor D Flange Kits

APPLICATIONS:

Kit designed for conversion of off-the-shelf motor to accommodate a D Flange Mount on World Motor Construction.

FCT, CTI, CTE
JDE (Automotive Duty)

Frame	Catalog Number	List	Discount Symbol	AK Dimension	Notes
180	2063438	$250	DS-3TE	9"	40
210	2060435	$333	DS-3TE	9"	40
250	2059785	$467	DS-3TE	11"	40,41
280	2059322	$583	DS-3TE	11"	41
320	2080456	$650	DS-3TE	14"	
360	2080463	$850	DS-3TE	14"	
400	2080475	$1,250	DS-3TE	18"	

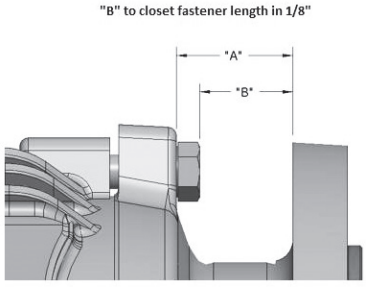
TCE, CE

Frame	Catalog Number	List	Discount Symbol	AK Dimension	Notes
180	2063393	$267	DS-3TE	9"	40, IN
210	2060204	$342	DS-3TE	9"	40, IN
250	2059696	$475	DS-3TE	11"	40, IN
280	2046248	$542	DS-3TE	11"	IN
320	2080457	$667	DS-3TE	14"	IN
360	2080464	$908	DS-3TE	14"	IN
400	2080476	$1,250	DS-3TE	18"	IN, NC

CE

Frame	Catalog Number	List	Discount Symbol	AK Dimension	Notes
400	2080477	$1,250	DS-3TE	18"	IN

Frame	"A"	"B"	Fastener
210	1.04	0.750	5/16
250	1.28	1.000	3/8
280	1.69	1.375	1/2
320	1.77	1.375	1/2
360	2.12	1.75	1/2
400	1.65	1.125	5/8
440	1.63	1.125	5/8



Depending on mounting configuration, a stud and nut may be required.

Note 40 Non-NEMA® "BA" Dimension
Note 41 Pulley End Bearing Clamp provision
Note IN Inpro Seal is not available
Note NC Not CE

D Flange Kits

APPLICATIONS:

Kit designed for conversion of off-the-shelf motors to accommodate a D Flange Mount.

HOSTILE DUTY® Type CTE

Frame	Catalog Number	List	Discount Symbol	AK Dimension	Notes
140	888916	$233	DS-3TE	9"	40
180	888917	$250	DS-3TE	9"	40
	2002476	$250	DS-3TE	9"	40
210	2002519	$333	DS-3TE	9"	40
250	649896	$467	DS-3TE	11"	40,41
280	646575	$583	DS-3TE	11"	41
320	2003210	$650	DS-3TE	14"	
360	2003139	$850	DS-3TE	14"	42

CORRO-DUTY® & 841 PLUS® Types TCE, CTI & CE

Frame	Catalog Number	List	Discount Symbol	AK Dimension	Notes
180	427671	$267	DS-3TE	9"	40
210	425855	$342	DS-3TE	9"	40
250	426052	$475	DS-3TE	11"	40
280	428974	$542	DS-3TE	11"	
320	437236	$667	DS-3TE	14"	
360	437238	$908	DS-3TE	14"	42
400	646590	$1,317	DS-3TE	18"	NC
440T	476030	$1,658	DS-3TE	18"	42
440TS	474395	$1,658	DS-3TE	18"	

841 PLUS® Type CE

Frame	Catalog Number	List	Discount Symbol	AK Dimension	Notes
400	646589	$1,250	DS-3TE	18"	
440T	476030	$1,658	DS-3TE	18"	42

UNIMOUNT® Type UTE, UTN & UTNX

Frame	Catalog Number	List	Discount Symbol	AK Dimension	Notes
140	369268	$175	DS-3TE	9"	40
180	369269	$208	DS-3TE	9"	
210	430514	$317	DS-3TE	9"	
250	430515	$400	DS-3TE	11"	
280	430516	$417	DS-3TE	11"	

CORRO-DUTY® Type JCE

Frame	Catalog Number	List	Discount Symbol	AK Dimension	Notes
449T	2042523	$2,126	DS-3TE	18"	
449TS/TM	2042524	$2,126	DS-3TE	18"	

Note 40 Non-NEMA® "BA" Dimension
Note 41 Pulley End Bearing Clamp Provision
Note 42 Not Useable on Short Shaft (TS or US)
Note NC Not CE

World Motor IEC Kits

APPLICATIONS:

Kit designed for conversion of off-the-shelf motors to accommodate a B5 or B14 Mount on World Motor IEC Construction.

ICTE, B5 Flange

Frame	Catalog Number	List	Discount Symbol	Dimension			Notes
				M	N	P	
112	2098530	$250	DS-3TE	215	180	250	
132	2098543	$333	DS-3TE	265	230	300	
160	2098566	$467	DS-3TE	300	250	350	
180	2098584	$583	DS-3TE	300	250	350	
200	2098589	$650	DS-3TE	350	300	400	
225	2098603	$850	DS-3TE	400	350	450	
250	2098609	$1,250	DS-3TE	500	450	550	
280	2098619	$1,658	DS-3TE	500	450	550	2P
280	2098620	$1,658	DS-3TE	500	450	550	4P

ICTE, B14 Flange

Frame	Catalog Number	List	Discount Symbol	Dimension			Notes
				M	N	P	
112	2098531	$252	DS-3TE	130	110	160	
132	2098544	$292	DS-3TE	165	130	200	
160	2098567	$375	DS-3TE	215	180	250	

Note 2P 2-Pole
Note 4P 4-Pole and Slower

World Motor Drip Cover and Vertical Lifting Kits

APPLICATIONS:

Provides protection to the motor in a vertical shaft down position or provides vertical lifting provisions for footed motors mounted in a vertical, shaft down, orientation.

Cast Iron, TEFC Motors

Frame	Catalog Number	List	Discount Symbol	Notes
140	2064246	$150	DS-3TE	
180	2064679	$250	DS-3TE	
210	2060433	$275	DS-3TE	
250,280	2059320	$333	DS-3TE	
320	2060742	$700	DS-3TE	
360	2064678	$1,133	DS-3TE	
400,440	2065879	$1,583	DS-3TE	

Vertical Lifting Kits

Frame	Catalog Number	List	Discount Symbol	Notes
180	2096007-000	$188	DS-3TE	CT
180	2096008-000	$188	DS-3TE	TC, CE
210	2095922-000	$196	DS-3TE	
250	2095925-000	$231	DS-3TE	
280	2095943-000	$265	DS-3TE	
320	2095946-000	$340	DS-3TE	
360	2095963-000	$375	DS-3TE	
400	2095967-000	$505	DS-3TE	
440	2095982-000	$634	DS-3TE	

Dripcover Kits

APPLICATIONS:

Provides protection to the motor in a vertical shaft down position.

UNIMOUNT®
Types UTE, UTF, UTE4, UT1 & UT4

Frame	Catalog Number	List	Discount Symbol	Notes
56-140	362108	$100	DS-3TE	
180	362260	$172	DS-3TE	
210	365035	$192	DS-3TE	
250-280	370422	$222	DS-3TE	

Open Drip Proof
Types FD, FR, DF4, DF1, FD1, FD4, D1 & D4

Frame	Catalog Number	List	Discount Symbol	Notes
140	969573	$100	DS-3TE	
180	969574	$172	DS-3TE	
210	969575	$192	DS-3TE	
250	472131	$233	DS-3TE	
280	969578	$267	DS-3TE	SEE CATALOG MODELS SECTION
320	969579	$300	DS-3TE	SEE CATALOG MODELS SECTION
280/320*	2109764		DS-3TE	SEE CATALOG MODELS SECTION

HOSTILE DUTY®, Severe Duty & 841 PLUS®
Types CTE, CTI, TCE & CE

Frame	Catalog Number	List	Discount Symbol	Notes
140	967059	$150	DS-3TE	44
180	967060	$250	DS-3TE	44
210	967061	$275	DS-3TE	44
250	967062	$333	DS-3TE	45
280	967063	$517	DS-3TE	
320	639886	$700	DS-3TE	
360	967065	$1,133	DS-3TE	
400	967066	$1,583	DS-3TE	
440	967067	$1,800	DS-3TE	

Fractional Horsepower Pump Motors

Frame	Catalog Number	List	Discount Symbol	Notes
48	DC48	$42	DS-3TE	
56	DC56	$42	DS-3TE	

Note 44 Requires Cast Iron Fan Cover Kit
Note 45 Not to be used on Foot Mounted Motor

World Motor Cast Iron Conversion Kits

APPLICATIONS:

For severe environments where all Cast Iron construction is required.

Cast Iron, C/B Kits

Frame	Catalog Number	List	Discount Symbol	Notes
140,180	2063435	$150	DS-3TE	
210	2060432	$193	DS-3TE	
250	2059783	$212	DS-3TE	
280	2059319	$233	DS-3TE	
320	2060741	$243	DS-3TE	
360,400	2061477	$343	DS-3TE	
440	2066398	$833	DS-3TE	

Cast Iron, Fan Cover Kits

Frame	Catalog Number	List	Discount Symbol	Notes
140	2064245	$125	DS-3TE	
180	2063434	$137	DS-3TE	
210	2060431	$212	DS-3TE	
250	2059782	$330	DS-3TE	
280	2059318	$400	DS-3TE	
320	2060740	$417	DS-3TE	
360	2061476	$755	DS-3TE	
400	2065878	$1,223	DS-3TE	
440	2066397	$1,355	DS-3TE	

Cast Iron Conversion Kits

APPLICATIONS:

For severe environments where all Cast Iron construction is required.

Cast Iron Conduit Box Kits
HOSTILE DUTY® Types CTE & CTI

Frame	Catalog Number	List	Discount Symbol	Notes*
140	885267	$150	DS-3TE	
180	885268	$162	DS-3TE	
210	885269	$193	DS-3TE	
250	885270	$212	DS-3TE	
280	895716	$233	DS-3TE	
320	416477	$243	DS-3TE	
360	425917	$343	DS-3TE	
400	888949	$343	DS-3TE	
440	888950	$833	DS-3TE	
449	498926	$1,375	DS-3TE	

*Conduit Box kits include gaskets

Cast Iron Fan Cover Kits
HOSTILE DUTY® Types CTE & CTI

Frame	Catalog Number	List	Discount Symbol	Notes
140	885271	$125	DS-3TE	
180	885272	$137	DS-3TE	
210	885273	$212	DS-3TE	
250	885274	$330	DS-3TE	
280	885275	$400	DS-3TE	
320	416476	$417	DS-3TE	
360	425916	$755	DS-3TE	
400	888953	$1,223	DS-3TE	
440	888954	$1,355	DS-3TE	

Bases & Slide Rail Kits

APPLICATIONS:

Adjustable Motor Bases and Slide Rails Kits.

Adjustable Motor Base Kits

(404 – 449 frame bases have 2 adjusting screws, others have 1 screw)

Frame	Catalog Number	List	Discount Symbol	Notes
143	144638	$80	DS-3TE	LA
213	A70905	$105	DS-3TE	LA
286	70912	$200	DS-3TE	LA
365	70916	$492	DS-3TE	LA
404	X667470	$550	DS-3TE	LA
405	X667471	$550	DS-3TE	LA

Slide Rail Kits

(Rail Kit includes 2 rails and hardware)

Frame	Catalog Number	List	Discount Symbol	Notes
320	179039	$460	DS-3TE	LA
360	179040	$590	DS-3TE	LA
440	181635	$1,600	DS-3TE	LA

Note LA Limited Availability

Brake Kits

APPLICATIONS:

For UNIMOUNT® Motors in applications requiring quick stop and/or controlled hold.

UNIMOUNT®
Types UTE, UTF & UT

Frame	Rating (FT-LB)	Voltage at 60 Hz	Catalog Number	List	Discount Symbol	Notes
56-140	1.5	230/460	964220	$441	DS-BKT	
		575	964221	$441	DS-BKT	
56-140	3	115/230	964226	$510	DS-BKT	
		230/460	964223	$510	DS-BKT	
		575	964224	$510	DS-BKT	
56-140	6	125/250	958191	$691	DS-BKT	
		230/460	964225	$607	DS-BKT	
		575	964222	$607	DS-BKT	
56-140	10	230/460	964227	$984	DS-BRK	
		575	2110004	$984	DS-BRK	
180	10	125/250	964252	$1,017	DS-BKT	
		230/460	958195	$984	DS-BKT	
		575	958194	$984	DS-BKT	
180	15	230/460	958193	$1,086	DS-BKT	
		575	958192	$1,086	DS-BKT	
210	25	230/460	364963	$1,806	DS-BKT	46
		575	364966	$1,806	DS-BKT	46
210	35	230/460	364964	$2,055	DS-BKT	
		575	364967	$2,055	DS-BKT	46

All 230/460 Volt, 60 Hz Brakes are nameplated and designed for use on 190/380 Volt, 50 Hz rated at ft-lb per above.
All 125/250 Volt, 60 Hz Brakes are suitable for 160/220 Volt, 50 Hz at ft-lb per above.

Approved mounting positions are shown in the table below by "X".
For any other positions required, contact Customer Service and state position on order. Vertical mounting is defined as 15 degrees or more from horizontal.

Brake Rating Ft-Lb	Motor & Brake Horizontal Solenoid Position - Degrees From Vertical						Motor & Brake Vertical	
	0	0	0	0	0	0	Brake High	Brake Low
1.5, 3, 6	X	X	X	X	X	X	X	X
10, 15	X	X	X	X	X	X	X	X
25, 35	X							X

A Start/Stop cycle of no more than one stop per minute is acceptable for these brakes when used in conjunction with a motor and reducer. Contact Customer Service when shorter cycles are required or when used with high inertia applications, overhung loads or when not used with a reducer.

Note 46 25 and 35 ft-lb for horizontal mounting only

Fan Kits

APPLICATIONS:

449 frame & larger TEFC 2 Pole motors (and some TITAN® TEFC 4 pole) are standard with uni-directional fans (CCW facing opposite drive end). These fan kits are to convert the motors to clockwise rotation facing opposite drive end.

Clockwise (CW) Rotation Fan Kits for Standard 440-5000 TEFC Motors

Standard Catalog Number	HP	Poles	Frame	Type	Current Stock Fan Direction	Fan Material	Conversion CW Fan Kit	List	Discount Symbol
ALL	150	2	445	CE	CCW	Bronze	441496	$2,615	DS-3TE
ALL	200	2	447	CE	CCW	Bronze	441496	$2,615	DS-3TE
ALL	125	2	444	CTE	CCW	Bronze	441496	$2,615	DS-3TE
ALL	150	2	445	CTE	CCW	Bronze	441496	$2,615	DS-3TE
ALL	200	2	447	CTE	CCW	Bronze	441496	$2,615	DS-3TE
ALL	125	2	444	TCE	CCW	Bronze	441496	$2,615	DS-3TE
ALL	150	2	445	TCE	CCW	Bronze	441496	$2,615	DS-3TE
ALL	200	2	447	TCE	CCW	Bronze	441496	$2,615	DS-3TE
ALL	250	2	449	JCE	CCW	Aluminum	412701	$1,211	DS-6S
ALL	300	2	449	JCE	CCW	Aluminum	412701	$1,211	DS-6S
ALL	350	2	449	JCE	CCW	Aluminum	412701	$1,211	DS-6S
ALL	400	2	449	JCE	CCW	Aluminum	412701	$1,211	DS-6S
C300S12S	300	2	449	JCE	CCW	Aluminum	412700	$1,211	DS-6S
C300P1WS / C350P1WS	300 / 350	2	5010	JCE	CCW	Aluminum	412701	$1,211	DS-6S
C400P1WS	400	2	5010	JCE	CCW	Aluminum	2057073	$1,281	DS-6S

World Motor Roller Bearing Kits & Bearing Isolator/Grounding Seal MGS Kits by Inpro/Seal®†

APPLICATIONS:

Roller Bearing Kits: Used on belted applications only (do not use on direct connected loads). Do not use on motors mounted vertically shaft up or shaft down.
Inpro/Seal®† Kits: Bearing isolator to prevent contaminants from entering the bearing system in severe environments.

Roller Bearing Kits

Frame	Catalog Number	List	Discount Symbol	Notes
440-449	2068936	$1,250	DS-3TE	

Bearing Isolator/Grounding Seal MGS Kits by Inpro/Seal®†

Frame	Catalog Number	List	Discount Symbol	Notes
180	620281-000	$433	DS-3TE	
210	620282-000	$466	DS-3TE	
250	620283-000	$492	DS-3TE	
280	620284-000	$517	DS-3TE	
320	620285-000	$584	DS-3TE	
360	620286-000	$609	DS-3TE	
400T	620287-000	$650	DS-3TE	
400TS	620288-000	$650	DS-3TE	
440T	620290-000	$775	DS-3TE	
440TS	620289-000	$775	DS-3TE	
449T	620291-000	$830	DS-3TE	
449TS	620292-000	$830	DS-3TE	

Suitable with all 841 Plus (World Motor and Legacy Construction)

Suitable with all 841 Plus (World Motor and Legacy Construction)

Roller Bearing Kits and Bearing Isolator/Grounding Seal MGS Kits by Inpro/Seal®†

APPLICATIONS:

Roller Bearing Kits: Used on belted applications only (do not use on direct connected loads). Do not use on motors mounted vertically shaft-up or shaft-down.
Bearing Isolator/Grounding Seal Kits: Bearing isolator to prevent contaminants from entering the bearing system in severe environments.

Roller Bearing Kits

All belting applications should be reviewed by Nidec Motor Corporation® prior to use of these kits.

Frame	Catalog Number	List	Discount Symbol	Notes
400	646588	$1,250	DS-3TE	
440T	2001456	$1,450	DS-3TE	
449	447733	$1,687	DS-3TE	
5000	964723	$2,282	DS-3ADE	

Inpro/Seal®† MGS Grounding Seal Kits
841 PLUS Type CE, Drive End or with special C-Face Kit

APPLICATIONS:

Kit designed to add Inpro/Seal®† MGS grounding seal to 841 Plus

Frame	Catalog Number	List	Discount Symbol	Notes
180	620281-000	$433	DS-3TE	
210	620282-000	$466	DS-3TE	
250	620283-000	$492	DS-3TE	
280	620284-000	$517	DS-3TE	
320	620285-000	$584	DS-3TE	
360	620286-000	$609	DS-3TE	
400T	620287-000	$650	DS-3TE	
400TS	620288-000	$650	DS-3TE	
440T	620290-000	$775	DS-3TE	
440TS	620289-000	$775	DS-3TE	
449T	620291-000	$830	DS-3TE	
449TS	620292-000	$830	DS-3TE	

Conversions & Accessories

Introduction & Pricing Guidelines

A Variety of Conversion Options Available to Maximize Stock Flexibility

When you need a customized motor in a hurry, Nidec technicians can modify stock product so you can have the motor you need, when you need it. Our experienced Factory Technicians specialize in stock motor modifications to offer a speedy response to customer needs.

The following pages outline current modification options performed in the Southaven, MS, Conversion Center.

Items in bold on the Quick Pick pages, are available in both Southaven and our Los Angeles Conversion Center.

Leadtime: Unless otherwise indicated, normal lead time is three working days or less, depending on the availability of the motor to be converted.

Pricing:

1. Specify the stock catalog numbers you want converted along with the name(s) of the conversion(s) required.
2. Add the "list adder" for the conversion required to the "base list price" of the motor to be converted. (See following pages for "list adders")
3. Apply the standard motor "discount symbol" multiplier level to the total list price.

Note: Some conversion options are "net adders." See notations in the Quick Pick and Conversion Pricing sections of this catalog.

CD20P2E — List Price:	$2186.00
Plastic Plug/Drain Added — List Adder:	$242.00
Total List Price:	$2428.00
(DS- 3CE) — Standard Multiplier:	x .50
Net Price of Motor & Conversion:	$1214.00

CD20P2E — List Price:	$2186.00
(DS- 3CE) — Standard Multiplier:	x .50
Total List Price:	$1093.00
UL®† — Net Adder:	+ $4500.00
Net Price of Motor & Certificate:	$5593.00

**Pricing for conversion options are subject to change without notification.*

Returns: Converted motors may not be returned for credit.

Freight Terms: Freight will be calculated according to the standard Terms and Conditions, F.O.B. Point of Conversion Center.

Cancellation: Conversion orders are processed as quickly as possible. Cancellations may result in additional charges to cover any work performed prior to cancellation.

Exceptions: Conversions listed may not be available on all single phase, cooling tower, or hazardous location products. Contact your territory manager or customer service representative when considering modifications on these types of motors.

PHONE: 888 637 7333

Horizontal Motors (NEMA®† Frames 56-449)
Conversions & Accessories Quick Pick Chart

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

Description		Frame										
		56	140	180	210	250	280	320	360	400	444-447	449 (DP)
All Cast Iron	Conduit Box (CTE, CTI Only)	-	153	161	193	209	234	242	346	483	636	-
	Fan Cover (CTE, CTI Only)	-	145	161	234	371	443	467	822	1369	1530	-
Assembly Mounting (Convert To F2,W1,W2,W3,W4)		145	145	145	145	190	190	190	215	215	215	215
Base, Removal Of Feet (UNIMOUNT® Only)		161	161	161	161	161	161	-	-	-	-	-
Bearings	Sealed	-	174	190	203	322	322	564	564	-	-	-
	Single Shielded	-	-	-	403	483	564	-	-	-	-	-
	Roller Bearing On Drive End (CTE, TCE, JDE)	-	-	-	-	-	-	-	-	1100	1550	-
Brakes	Install Brake Kit (also add $ of brake kit)	354	354	354	354	-	-	-	-	-	-	-
	Brake Kit: 1.5 Ft-Lb (Type UTE, UTI) *	441	441	441	-	-	-	-	-	-	-	-
	3 Ft-Lb (Type UTE, UTI) *	510	510	510	510	-	-	-	-	-	-	-
	6 Ft-Lb (Type UTE, UTI) *	607	607	607	607	-	-	-	-	-	-	-
	10 Ft-Lb (Type UTE, UTI) *	984	984	984	984	-	-	-	-	-	-	-
	15 Ft-Lb (Type UTE, UTI) *	1086	1086	1086	1086	-	-	-	-	-	-	-
	25 Ft-Lb (Type UTE, UTI) *	1086	1086	1086	1086	-	-	-	-	-	-	-
	35 Ft-Lb (Type UTE, UTI) *	-	-	2055	2055	-	-	-	-	-	-	-
	6 Ft-Lb (Type UTNX)	766	766	766	766	766	-	-	-	-	-	-
	10 Ft-Lb (Type UTNX)	911	911	911	911	911	-	-	-	-	-	-
Conduit Box	Accessory Conduit Box (Non-XP Only)	-	-	548	548	548	548	548	548	548	548	548
	Rotate Conduit Box	161	161	161	161	161	161	161	161	161	161	161
	Cast Iron Conduit Box (CTE, CTI Only)	-	153	161	193	209	234	242	346	483	636	-
	Oversized Conduit Box	-	-	242	242	242	242	322	322	403	403	403
Drains (Breather/Drains) (Cast Iron TEFC Only)		-	-	-	-	-	-	-	-	-	-	-
	Stainless Steel T-Type Breather/Drain	-	-	586	586	586	586	586	586	586	586	-
Dripcover	UNIMOUNT® (Type UTE, UTI, UTF)	145	145	161	177	209	242	-	-	-	-	-
	Open Drip Proof (Type DE, DI)	-	145	161	177	209	242	274	-	-	-	-
	TEFC Cast Iron (Type CTE, CTI, CE, TCE)	-	169	282	282	282	372	372	372	677	677	-
Division 2 Self Certified & Division 2 CSA Certified (Eng. Approval Req'd)		-	-	-	-	-	-	-	-	-	-	-
	Class I, Grps. A/B/C/D T1-T3 T-Codes On Main N/P @ 1.0 SF (On CTE, TCE and CE Models – Standard Rating ONLY)	-	NC	NC	NC	NC	NC	NC	NC	NC	NC	-
	Class I, T-Code T1-T3C On Sep. Div. 2 Plate (Self Certified)	100	100	100	100	100	100	100	100	100	100	100
	Class I & II, T-Code T3C On Sep. Div. 2 Plate (Self Certified)	100	100	100	100	100	100	100	100	100	100	-
	Class I, T-Code T1-T3C On Sep. Div. 2 Plate (CSA)	-	100	100	100	100	100	100	100	100	100	-
Export Boxing		(#)	(#)	(#)	(#)	(#)	(#)	(#)	(#)	(#)	(#)	(#)
Fans, Install Uni-Directional (TEFC Only)		-	-	-	-	451	451	580	580	677	677	-
Flanges	C-Face	242	242	290	330	725	1007	1087	1176	1450	1692	-
	D-Flange	403	403	419	353	1087	1208	1369	1595	2014	2900	-
Grease, Low Temp Grease		-	137	137	145	187	208	292	313	499	688	688
Grease Fittings		-	-	209	209	209	209	209	322	322	322	322
Ground Lug	In Conduit Box	129	129	129	129	129	129	129	129	129	129	129
	On Frame (Cast Iron Non-XP Only)	-	-	371	371	371	371	371	371	371	371	371
Grounding, Shaft	Installed AEGIS®† SGR™	-	260	260	310	310	310	385	385	575	810	1080
	C-Face with MGS Grounding Seal	-	-	-	-	-	1317	1472	1561	1946	2540	-
	Installed MGS SGR™ (Available on 841 Plus)	-	-	433	466	492	517	584	609	650	775	-
Hardware, Stainless Steel		-	-	548	548	918	918	918	1257	1257	1643	1643
Leads	Ring Type Lead Lugs	140	140	140	140	161	161	-	-	-	-	-
	Tie Back Leads	274	274	274	403	403	612	612	612	612	612	612
Lifting Lugs		-	-	274	-	-	-	-	-	-	-	-
Marine Duty, Below Deck		338	338	338	338	419	419	419	419	612	612	612

(N) Net Adder
(NC) No Charge if specified at time of Motor order.

(+) Refer to Conversion Pricing Section for description.
(#) Refer to Optional Export Packing Charges Section.

Horizontal Motors (NEMA®† Frames 56-449)
Conversions & Accessories Quick Pick Chart

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

Description		Frame										
		56	140	180	210	250	280	320	360	400	444-447	449 (DP)
Nameplates	Additional Duplicate Nameplate	70	70	70	70	70	70	70	70	70	70	70
	Additional Stamping On Main Nameplate	70	70	70	70	70	70	70	70	70	70	70
	Rotation Arrow	70	70	70	70	70	70	70	70	70	70	70
	Shipping Tag (#6 Paper Tag)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
	Special I.D. Plate	70	70	70	70	70	70	70	70	70	70	70
	Re-Nameplate (Re-Rate)	70	70	70	70	70	70	70	70	70	70	70
	Firepump Label	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
Prints & Data	(Submittals) (NET ADDERS)	-	-	-	-	-	-	-	-	-	-	-
	Standard Submittals (+)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
	Speed Vs. Torque & Amps Curve (Standard 100% Voltage)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
	Speed Vs. Torque & Amps Curve (Non-Standard, Multiple Voltages)	60	60	60	60	60	60	60	60	60	60	60
	Speed Vs. Torque & Amps Curve (Metric)	170	170	170	170	170	170	170	170	170	170	170
	Safe Stall Time Curve	170	170	170	170	170	170	170	170	170	170	170
	Acceleration Time Vs. Amps Curve	170	170	170	170	170	170	170	170	170	170	170
	Performance Curve (Standard)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
	Performance Curve (Non-Standard)	170	170	170	170	170	170	170	170	170	170	170
	Performance Curve (Metric Units)	280	280	280	280	280	280	280	280	280	280	280
	Shaft Stiffness	170	170	170	170	170	170	170	170	170	170	170
	Torsional Analysis	170	170	170	170	170	170	170	170	170	170	170
	Sound Power In Watts	60	60	60	60	60	60	60	60	60	60	60
	Sound Pressure In dB @ 3 Feet	30	30	30	30	30	30	30	30	30	30	30
	Sound Data Vs. Center Band	60	60	60	60	60	60	60	60	60	60	60
	Customer Data Sheet	60	60	60	60	60	60	60	60	60	60	60
	Equivalent Circuit Data	60	60	60	60	60	60	60	60	60	60	60
	UL®† Certificate	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	Certificate Of Conformance	60	60	60	60	60	60	60	60	60	60	60
	Shaft Print	60	60	60	60	60	60	60	60	60	60	60
	Shaft Print With Material Strength	220	220	220	220	220	220	220	220	220	220	220
	Rotor Detail Print	280	280	280	280	280	280	280	280	280	280	280
	Rotor Detail & Shaft Print	330	330	330	330	330	330	330	330	330	330	330
	Current Pulsation Analysis	220	220	220	220	220	220	220	220	220	220	220
	Bearing Life Calculation	150	150	150	150	150	150	150	150	150	150	150
Screens	(ODP Only)	-	-	226	226	226	226	226	403	403	403	403
Shaft Seals, "Inpro®† Type" On Fan End (841 PLUS® Only)		-	-	-	-	-	-	-	-	-	-	-
Space Heater	ODP or TEFC Motors	210	210	250	250	320	380	420	420	480	480	480
	XP Motors	-	-	-	500	640	760	840	840	960	960	-
Testing	Short Commercial Test, Un-Witnessed	282	282	282	612	612	612	612	612	612	612	612
	Complete Initial Test, Un-Witnessed	Contact an Nidec Motor Corporation Representative for pricing										
Thermal Protection, Windings		-	-	-	-	-	-	-	-	-	-	-
	Thermostats	200	200	200	200	300	300	300	400	400	400	400
	Thermistors	725	725	725	725	725	725	725	725	725	725	725
	THERMA SENTRY®†	1740	1740	1740	1740	1820	1820	1820	1820	1820	1820	1820
	Thermocouples	209	209	209	209	419	419	419	419	419	419	2417
Tropicalization / High Moisture Protection		242	242	242	242	354	354	354	354	612	612	612
Vector Encoder Conversion (See Page 101 - Encoder Availability)		-	-	-	-	-	-	-	-	-	-	-
	Avtron AV32	1125	1125	1125	1125	1125	1125	1125	1125	1125	1125	1125
	Avtron AV56	1600	1600	1600	1600	1600	-	-	-	-	-	-
	Avtron HS25A	1125	1125	1125	1125	1125	-	-	-	-	-	-
	Avtron HS35A	-	-	1300	1300	1300	1300	1300	1300	1300	1300	-
	Dynapar HS20	1200	1200	1200	1200	1200	-	-	-	-	-	-
	Dynapar HS35R	-	-	1530	1530	1530	1530	1530	1530	1530	1530	-
	Dynapar ST56	2410	2410	2410	2410	2410	2410	2410	2410	2410	2410	-
	EPC 25T	-	-	1300	1300`	1300	1300	1300	1300	1300	1300	-

(N) Net Adder
(NC) No Charge if specified at time of Motor order.

(+) Refer to Conversion Pricing Section for description.
(#) Refer to Optional Export Packing Charges Section.

Horizontal Motors (TITAN® Frames 449-5800)
Conversions & Accessories Quick Pick Chart

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

Description		Frame	
		449 (TE)	5000
Assembly Mounting	Convert To "F2" (Type JCE Only)	-	650
Bearings	Roller Bearing on Drive End (Type JCE Only)	1800	-
Conduit Box	Rotate 90 Degrees	100	100
Coupling	Mount Customer Half Coupling	1380	1380
Division 2 Self Certified & Division 2 CSA Certified (Eng. Approval Req'd)		-	-
	Class I, Grps. A/B/C/D T1-T3 T-Codes On Main N/P @ 1.0 SF (On JC, JCE Models – Standard Rating ONLY)	NC	NC
	Class I, T-Code T1-T3C On Sep. Div. 2 Plate (Self Certified)	100	100
	Class I & II, T-Code T3C On Sep. Div. 2 Plate (Self Certified)	100	100
	Class I, T-Code T1-T3C On Sep. Div. 2 Plate (CSA)	100	100
Export Boxing		(#)	(#)
Fans	Install Uni-Directional (TEFC Only)	830	-
Flanges	C-Face	2169	-
	D-Flange	2272	-
Ground Lug	In Conduit Box	300	300
	On Frame (Cast Iron, Non-Explosionproof Only)	300	300
Marine Duty	Below Deck (Ball Bearing Motors Only)	5%	5%
Nameplates	Additional Duplicate	70	70
	Re-Nameplate	70	70
	Special ID Nameplate	70	70
	Shipping Tag (#6 Paper Tag)	NC	NC
	Fire Pump Label (Requires Approval)	140	-
Prints & Data	(Submittals) (NET ADDERS)	-	-
	Standard Submittals (QP)	NC	NC
	Speed Vs. Torque & Amps Curve (Standard 100% Voltage)	NC	NC
	Speed Vs. Torque & Amps Curve (Non-Standard, Multiple Voltages)	60	60
	Speed Vs. Torque & Amps Curve (Metric)	170	170
	Safe Stall Time Curve	170	170
	Acceleration Time Vs. Amps Curve	170	170
	Performance Curve (Standard)	NC	NC
	Performance Curve (Non-Standard)	170	170
	Performance Curve (Metric Units)	280	280
	Shaft Stiffness	170	170
	Torsional Analysis	170	170
	Sound Power In Watts	60	60
	Sound Pressure In dB @ 3 Feet	30	30
	Sound Data Vs. Center Band	60	60
	Customer Data Sheet	60	60
	Equivalent Circuit Data	60	60
	UL® Certificate	1000	1000
	Certificate Of Conformance	60	60
	Shaft Print	60	60
	Shaft Print With Material Strength	220	220

(N) Net Adder
(NC) No Charge if specified at time of Motor order.
(+) Refer to Conversion Pricing Section for description.
(#) Refer to Optional Export Packing Charges Section.

Horizontal Motors (TITAN® Frames 449-5800)
Conversions & Accessories Quick Pick Chart

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

Description		Frame	
		449 (TE)	5000
Prints & Data Rotor Detail Print		280	280
	Rotor Detail Print	280	280
	Rotor Detail & Shaft Print	330	330
	Current Pulsation Analysis	220	220
	Bearing Life Calculation	150	150
Space Heater	(Double For Hazardous Location)	480	480
Tests	Short Commercial Test, Un-Witnessed	380	380
	Complete Initial Test, Un-Witnessed	Contact Office	
Thermal Protection, Bearings	(Medium Voltage Type JC, JCE Only)	-	-
	RTD's, 1/Bearing (100 Ohm)	2500	2500
Thermal Protection, Windings		-	-
	Thermostats, 1/Phase	460	460
	THERMA SENTRY® (SMSE)	1130	1130
Vector Encoder (Type JCBI Only)		-	-
	Avtron AV32	1125	-
	Avtron AV56	1600	-
	Avtron HS35A	1300	-
	Dynapar ST56	2410	-
	Dynapar HS35R	1530	-
	EPC 25T	1300	-

Vertical Motors
Conversions & Accessories Quick Pick Chart

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

Description		Frame Size									
		180	210	250	280	320	360	400	444-447	449	5000
Bearings	Extra High Thrust (175%) (#)	-	-	-	-	5%	5%	5%	5%	5%	5%
Coupling	(Change To Alternate)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Conduit Box	Accessory Conduit Box	901	901	901	901	901	901	901	901	901	901
	Rotate Conduit Box	235	235	235	235	235	235	235	235	235	235
	Cast Iron Conduit Box	-	-	-	-	293	469	587	704	-	-
	Size 2 Cast Iron Box	-	-	-	-	-	-	1408	1408	-	-
	Size 3 Cast Iron Box	-	-	-	-	-	-	3477	3477	3477	3477
Division 2 Self Certified & Division 2 CSA Certified (Eng. Approval Req'd)		-	-	-	-	-	-	-	-	-	-
	Class I, Grps. A/B/C/D T1-T3 T-Codes On Main N/P @ 1.0 SF	NC	NC	NC	NC	NC	NC	NC	NC	NC	-
	Class I, T-Code T1-T3C On Sep. Div. 2 Plate (Self Certified)	100	100	100	100	100	100	100	100	100	-
	Class I, T-Code T1-T3C On Sep. Div. 2 Plate (CSA)	100	100	100	100	100	100	100	100	100	-
Drains	T-Type Breather/Drain	70	70	94	94	94	117	117	117	-	-
Export Boxing	(Net Adder)	(@)	(@)	(@)	(@)	(@)	(@)	(@)	(@)	(@)	(@)
Flanges	(Change Bracket To Alternate "BD")	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Ground Lug	In Conduit Box	108	108	108	108	108	108	108	108	108	108
Leads	(Tie Back Leads)	399	587	587	892	892	892	892	892	892	-
Nameplates	Additional Duplicate Nameplate	235	235	235	235	235	235	235	235	235	235
	Additional Stamping On Main Nameplate	235	235	235	235	235	235	235	235	235	235
	Shipping Tag (#6 Paper Tag)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
	Special I.D. Plate`	235	235	235	235	235	235	235	235	235	235
	Re-Nameplate (Re-Rate)	235	235	235	235	235	235	235	235	235	235
	Firepump Label	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
Non-Reverse Ratchet		-	-	-	-	-	-	-	-	-	-
	Bolted Coupling - Add or Remove	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
	Clockwise Non-Reverse Ratchet	-	-	-	-	469	469	469	469	-	-
Prints & Data	(Submittals) (NET ADDERS)	-	-	-	-	-	-	-	-	-	-
	Standard Submittals	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
	Speed Vs. Torque & Amps Curve (Standard 100% Voltage)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
	Speed Vs. Torque & Amps Curve (Non-Standard, Multiple Voltages)	60	60	60	60	60	60	60	60	60	60
	Speed Vs. Torque & Amps Curve (Metric)	170	170	170	170	170	170	170	170	170	170
	Safe Stall Time Curve	170	170	170	170	170	170	170	170	170	170
	Acceleration Time Vs. Amps Curve	170	170	170	170	170	170	170	170	170	170
	Performance Curve (Standard)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
	Performance Curve (Non-Standard)	170	170	170	170	170	170	170	170	170	170
	Performance Curve (Metric Units)	280	280	280	280	280	280	280	280	280	280
	Shaft Stiffness	170	170	170	170	170	170	170	170	170	170
	Torsional Analysis	170	170	170	170	170	170	170	170	170	170
	Sound Power In Watts	60	60	60	60	60	60	60	60	60	60
	Sound Pressure In dB @ 3 Feet	30	30	30	30	30	30	30	30	30	30
	Sound Data Vs. Center Band	60	60	60	60	60	60	60	60	60	60
	Customer Data Sheet	60	60	60	60	60	60	60	60	60	60
	Equivalent Circuit Data	60	60	60	60	60	60	60	60	60	60

(N) Net Adder
(NC) No Charge if specified at time of Motor order.
(+) Refer to Conversion Pricing Section for description.
(@) Refer to Optional Export Packing Charges Section.
(#) Available only on Premium Efficient HOLLOSHAFT® WPI

Vertical Motors
Conversions & Accessories Quick Pick Chart

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

Description		Frame Size									
		180	210	250	280	320	360	400	444-447	449	5000
Prints & Data	Equivalent Circuit Data	60	60	60	60	60	60	60	60	60	60
	UL® Certificate	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	Certificate Of Conformance	60	60	60	60	60	60	60	60	60	60
	Shaft Print	60	60	60	60	60	60	60	60	60	60
	Shaft Print With Material Strength	220	220	220	220	220	220	220	220	220	220
	Rotor Detail Print	280	280	280	280	280	280	280	280	280	280
	Rotor Detail & Shaft Print	330	330	330	330	330	330	330	330	330	330
	Current Pulsation Analysis	220	220	220	220	220	220	220	220	220	220
	Bearing Life Calculation	150	150	150	150	150	150	150	150	150	150
Space Heater (Double Adder For Hazardous Location Motors)		477	477	512	512	596	643	643	643	1326	1326
Steady Bushing Kit (Attached To Motor Eyebolt)		202	202	202	202	300	300	300	300	418	418
Tests	Short Commercial Test, Un-Witnessed	662	662	662	662	662	662	662	662	662	662
	Complete Initial Test, Un-Witnessed	Contact an Nidec Motor Corporation Representative for pricing									
Thermal Protection, Bearings (Upper Bracket) (#)		-	-	-	-	-	-	-	-	-	-
	RTD's, 10 or 120 Ohm	-	-	-	-	1338	1338	1338	1338	1338	1338
	RTD's, 100 Ohm	-	-	-	-	1338	1338	1338	1338	1338	1338
Thermal Protection, Windings		-	-	-	-	-	-	-	-	-	-
	Thermostats (Double Adder For Haz. Loc. Motors)	265	265	265	265	418	519	519	519	519	519
	Thermistors	472	472	472	472	669	669	876	876	876	876
	THERMA SENTRY®	587	587	587	587	587	587	587	1150	1150	1150
	Thermocouples	3434	3434	3434	3434	3434	3434	3434	3434	3434	3434
Vibration Detector (#)	Robertshaw® Model 366	-	-	-	-	1878	1878	1878	1878	-	-

(+) Refer to Conversion Pricing Section for description.
(N) Net Adder
(NC) No Charge if specified at time of Motor order.
(@) Refer to Optional Export Packing Charges Section.
(#) Available only on Premium Efficient HOLLOSHAFT® WPI

Three Phase Modifiable NEMA®† Vertical Motors Conversion & Accessories Introduction and Pricing Guidelines

Select the base list price from the previous section.

Price adders for Accessories and Modifications that are not part of the standard product offering can be found in the following sections. Note that not all of the Accessories and Modifications are available on all product types or frame sizes. Refer to the detailed description for restrictions and guidelines of each Accessory and Modification.

All list price adders carry the same discount symbol as the base list price of the motor.

Note that some adders are net adders.

Percentage adders are percent of the base list price, unless otherwise noted.

Refer to NMC for product lead times.

Refer to Terms & Conditions of sale on page xi.

Prices and information subject to change without notice.

Round total list price to the nearest dollar.

All prices are in U.S. dollars.

Some Accessories and Modifications will require a larger than standard frame size. All adders to be based on confirmed frame size.

Horizontal Motors Conversions & Accessories Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

All Cast Iron Construction

Cast Iron Conduit Box

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	-	153	161	193	209	234	242	346	483	636	-	-	-

Replacement of steel conduit box with cast iron version.

Available on HOSTILE DUTY® Motors (Types CTE, CTI)

Cast Iron Fan Cover

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	-	145	161	234	371	443	467	822	1369	1530	-	-	-

Replacement of steel (or plastic) fan cover with cast iron version.

Available on HOSTILE DUTY® Motors (Types CTE, CTI)

Assembly Mounting

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	145	145	145	145	190	190	190	215	215	215	215	-	650

Convert standard F1 Assembly to F2, W1, W2, W3 or W4 assembly. Involves repositioning output shaft to achieve proper configuration.

Availability:

56-140 Frame: Very limited availability.

180-447 Frame: available on ODP, TEFC & Explosionproof Motors.

449 Frame: available on ODP only.

5000 Frame: available on type JDE, R & RS only.

F1 to F2 UNIMOUNT® base must be repositioned for correct "BA" Dimension.

Not available on 180-250 frame flange mount (C or D Flange) UNIMOUNT®.

Limited availability on 180-320 frame ODP.

Contact your NMC Technical Representative prior to quoting.

Base, Removal of Feet

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	161	161	161	161	161	161	-	-	-	-	-	-	-

For flange mount (C or D Flange) motors, involves removal of bolt-on base.

Available on UNIMOUNT® Motors 180 frame & larger.

Contact your NMC Technical Representative for availability on 56 & 140 frame UNIMOUNT® motors (some 56 & 140 frames have welded bases).

UTE, UTI, UT4 - welded, non-removable base.

Bearings

Sealed

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	-	174	190	203	322	322	564	564	-	-	-	-	-

Includes replacing the standard bearings with sealed bearings, and replacing the grease fittings with plugs. Most 180-360 frame motors have shielded bearings as standard.

Available on ODP, TEFC and Explosionproof enclosures. UNIMOUNT (TEFC) 140-280 frames only (Not Close-Coupled Pump)

Roller Bearing On Drive End

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	-	-	-	-	-	-	-	-	$1100	$1550	-	$1800	-

Includes replacing the standard drive end bearing with a roller bearing.

Not offered for 2 pole ratings & not offered for Cooling Tower ratings

Not offered for 2 pole ratings & not offered for Cooling Tower ratings

Brakes

Install Brake Kit (Must also add the price of the brake kit)

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	(QP)	(QP)	(QP)	(QP)	(QP)	-	-	-	-	-	-	-	-

Use the above adder PLUS list price of the brake kit. Refer to the Quick Pick chart, or "Kits" section for brake kits prices.

Available on UNIMOUNT® motors (Type UTE, UTI) 56-210 frame. Involves removal of fan guard and adding stub shaft with brake and adaptor.

Available on UNIMOUNT® motors (Type UTNX) 56-250 frame and (Type CTNI) 180-250.

Conduit Boxes

Accessory Conduit Box

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	-	-	548	548	548	548	548	548	548	548	548	-	-

A condulet can be added to the main motor conduit box for routing of accessory leads. Available on ODP and TEFC (not Explosionproof) ratings.

Rotate Conduit Box

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	161	161	161	161	161	161	161	161	161	161	161	100	100

Standard motors have lead opening facing down (toward motor feet). Includes rotating the conduit box so the lead opening is facing the desired direction. Specify direction of lead opening: Facing up (away from motor feet); Facing pulley end (shaft end); Facing short end (fan end)

Oversized Conduit Box

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	-	-	242	242	242	242	322	322	403	403	403	-	-

Includes mounting the conduit box on the motor (for motors that have the conduit box shipped loose).

Corro-duty: 180-447 frames

841 PLUS®: 180-400 frames (excluding 210 frame)

HOSTILE DUTY®: 210-447 frames

ODP: 180-447 frames

Automotive Duty: 180-447 frames (excluding 210 frame)

STEEL EDGE®: 180-250 frames

Horizontal Motors Conversions & Accessories Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

Drains

Stainless Steel T-Type Breather/Drain

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	-	-	586	586	586	586	586	586	586	586	-	-	-

Install stainless steel T-type breather/drains in place of standard drains.

Available on 180-440 frame cast iron enclosed motors.

Dripcover / Canopy Cap

TEFC UNIMOUNT® (Type UTE, UTI, UTF)

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	145	145	161	177	209	242	-	-	-	-	-	-	-

Install dripcover kit for vertical shaft-down mounting.

Open Drip Proof (Type DE, DI)

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	-	145	161	177	209	242	274	-	-	-	-	-	-

Install dripcover kit for vertical shaft-down mounting.

TEFC Cast Iron (Type CTE, CTI, CE, TCE)

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	-	169	282	282	282	372	372	372	677	677	-	-	-

Install dripcover kit for vertical shaft-down mounting.

Not available on most 320-360 frame TEFC motors.

On HOSTILE DUTY® 180 or 210 frame, fan cover is also changed to Cast Iron

On Explosionproof 210 frame, fan cover is also changed to Cast Iron

Division 2 Self Certified & Division 2 CSA®† Certified

(+) Refer To The Charts Below For Pricing

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)

The following restrictions apply:

Not available (not applicable) on UL® Listed Hazardous Location motors.

Must use energy or premium efficient motors.

Class II not available on ODP motors or CSA® Division 2.

Contact an NMC Technical Representative to confirm availability.

Temp codes T-4 to T-6 not available.

Group E not available.

Inverter duty limited to T1-T3.

Zone 2 markings are available on separate Division 2 nameplate options.

Class I, Grps. A/B/C/D T1-T3 T-Codes On Main N/P @ 1.0 SF (On CTE, TCE, CE and JCE Models – Standard Rating ONLY)

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	-	NC	NC	NC	NC	NC	NC	NC	NC	NC	-	NC	NC

Contact an NMC Technical Representative to confirm availability.

Division 2 Self Certified & Division 2 CSA®† Certified *(continued)*

Class I, T-Code T1-T3C On Sep. Div. 2 Plate (Self Certified)

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	100	100	100	100	100	100	100	100	100	100	100	100	100

Contact an NMC Technical Representative to confirm availability.

Class I & II, T-Code T3C On Sep. Div. 2 Plate (Self Certified)

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	100	100	100	100	100	100	100	100	100	100	-	100	100

Contact an NMC Technical Representative to confirm availability.
Group E is not available
Class II is not available on Open Drip Proof (ODP) motors

Class I, T-Code T1-T3C On Sep. Div. 2 Plate (CSA)

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	-	100	100	100	100	100	100	100	100	100	-	100	100

Contact an NMC Technical Representative to confirm availability.
CSA is not available on Open Drip Proof (ODP) motors and TEFC non-cast iron frame motors.

Export Boxing

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	(#)	(#)	(#)	(#)	(#)	(#)	(#)	(#)	(#)	(#)	(#)	(#)	(#)

Product is boxed, packaged or crated as required for under deck exporting.
(#) Refer to Optional Export Packing Charges Section.

Fans, Install Uni-Directional

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	-	-	-	-	451	451	580	580	677	677	-	830	-

Replace one-directional (CCW) with one-directional (CW) fan if the fan is available.
Specify desired rotation, when viewed from opposite drive end of motor.
Available on Totally Enclosed Fan Cooled (TEFC) motors.

Flanges

C-Face

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	242	242	290	330	725	1007	1087	1176	1450	1692	-	2169	-

Removal of standard end shield and replaced with C-Face.
Available on UNIMOUNT®, HOSTILE DUTY®, CORRO-DUTY®, Automotive Duty & 841 PLUS® motors.
140-250 frame will have non-NEMA®† "BA" dimension.

D-Flange

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	403	403	419	353	1087	1208	1369	1595	2014	2900	-	2272	-

Removal of standard end shield and replaced with D-Flange.
Available on UNIMOUNT®, HOSTILE DUTY®, CORRO-DUTY®, Automotive Duty & 841 PLUS® motors.

Horizontal Motors Conversions & Accessories Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

Grease, Low Temp Grease

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	-	137	137	145	187	208	292	313	499	688	688	-	-

Purge and repack lubricant in end shields with Mobil®† 28 grease, or equivalent, with temperature range of -65°F to 350°F.
Available on motors with shielded or open bearings.

Grease Fittings

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	-	-	209	209	209	209	209	322	322	322	322	-	-

Replace grease plugs on motors so equipped with hydraulic grease fittings on inlets and pressure reliefs on grease drains.
Not available on Explosionproof motors.

Ground Lug

In Conduit Box

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	129	129	129	129	129	129	129	129	129	129	129	300	300

Addition of ground lug in main motor conduit box.

On Frame

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	-	-	371	371	371	371	371	371	371	371	371	300	300

Addition of drilled and tapped hole on conduit box side of frame and installation of a bronze grounding screw.
Available on non-Explosionproof cast iron ratings only.

Grounding, Shaft

Installed AEGIS®† SGR™

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	-	260	260	310	310	310	385	385	575	810	1080	-	-

UNIMOUNT® and ODP - drive end only. ODP Flanged or Close Coupled Pump: 280 frame and smaller.
Not offered on Hazardous Location motors
Not offered on Cooling Tower motors and models with "TS" shaft extension

C-Face with MGS Grounding Seal

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	-	-	-	-	-	1317	1472	1561	1946	2540	-	2941	-

Only available on Cast Iron Accu-Torq CTI, TCI, TCBI (CT)

Installed MGS SGR™

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	-	-	433	466	492	517	584	609	650	775	-	830	-

Available on 841 Plus

Hardware, Stainless Steel

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	-	-	548	548	918	918	918	1257	1257	1643	1643	-	-

Replacement of all external hardware with grade 5 stainless steel (standard hardware is zinc plated).
Available on non-Explosionproof cast iron enclosed motors.

Horizontal Motors Conversions & Accessories Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

Leads

Ring Type Lead Lugs

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	140	140	140	140	161	161	-	-	-	-	-	-	-

Addition of ring type lead lugs on 56-250 frame motors.

Crimp type lead lugs are standard on all 280 frame & larger.

Tie Back Leads

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	274	274	274	403	403	612	612	612	612	612	612	-	-

Reconnect dual voltage 9-lead or 12-lead motors to 3-lead single voltage. Tie back and connect leads inside frame for single voltage 3-lead conduit box connections.

Specify desired voltage when ordering.

Available on non-Explosionproof motors.

Lifting Lugs

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	-	-	274	-	-	-	-	-	-	-	-	-	-

Addition of lifting lugs to motors normally not supplied with them.

Currently only available on 180 frame premium efficient ODP motors (Type DE).

Marine Duty

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	338	338	338	338	419	419	419	419	612	612	612	5%	5%

Conversion of standard product to IEEE-45 below deck standards. Includes addition of screens (on ODP motors), lead terminals, high moisture winding treatment and rerate to 50°C ambient, 1.0 service factor. Motors will NOT include USCG documentation.

Not available on TITAN® sleeve bearing motors.

Nameplates

Additional Duplicate Nameplate

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	70	70	70	70	70	70	70	70	70	70	70	70	70

An additional duplicate nameplate for mounting on customer equipment. These additional nameplates cannot be supplied with CSA®† or UL®† logos.

Additional Stamping On Main Nameplate

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	70	70	70	70	70	70	70	70	70	70	70	-	-

The main motor nameplate can be stamped with limited customer tagging information (20 characters max).

Rotation Arrow

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	70	70	70	70	70	70	70	70	70	70	70	-	-

Metal plate mounted on motor with arrow showing direction of rotation. Customer must specify required direction of rotation:

Counter clockwise facing opposite drive end

Clockwise facing opposite drive end

Supplied as standard on motors with uni-directional fans.

Shipping Tag (#6 Paper Tag)

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

A #6 paper shipping tag, with customer tagging information, can be supplied at no charge when specified at time of motor order.

Horizontal Motors Conversions & Accessories Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

Nameplates *(continued)*

Special I.D. Plate

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	70	70	70	70	70	70	70	70	70	70	70	70	70

Special identification plates can be mounted on the motor with limited customer specified tagging information (100 characters max).

Re-Nameplate (Re-Rate)

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	70	70	70	70	70	70	70	70	70	70	70	70	70

Motors can be re-nameplated (after approval) for alternate ratings. Changes in horsepower, altitude, ambient, voltage, frequency, etc.
Contact an NMC Technical Representative for approval prior to quoting.

Firepump Label

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	140	-

UL® Listed (File E187977) firepump motors are designed per UL-1004A® and meet the NFPA-20® "Standard for the Installation of Centrifugal Fire Pump Spec".
This conversion is to add the firepump label.
Contact your NMC Technical Representative with exact rating to confirm that it meets the firepump requirements.

Prints & Data (Submittals)

(Net Adders)

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	(QP)	(QP)	(QP)	(QP)	(QP)	(QP)	(QP)	(QP)	(QP)	(QP)	(QP)	(QP)	(QP)

Submittals adders are NET ADDERS. (QP) refer to Vertical motors quick pick chart.
The following submittals are considered standard submittals, and are available at no charge if requested at time of motor order:

- Certified Dimension Print
- Performance Data
- Nameplate Data
- Instruction Manual
- Wiring Diagram
- Parts List
- Recommended Spare Parts
- Conduit Box Details
- Paint Specification
- Rotor Air Gap (Calculated)
- Rotor Inertia
- Cut Sheets For Accessories

Screens

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	-	-	226	226	226	226	226	403	403	403	403	-	STD

Addition of rodent screens to ventilation openings on Open Drip Proof motors.

Sealant, RTV

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	145	145	145	193	258	258	322	322	354	354	354	-	-

Silicon sealant applied to registers between the end bracket and frame and/or under bolt heads to prevent contaminants from entering the motor.
841 PLUS® and Cooling Tower ratings only

Shaft Seals, Inpro®† Type

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	-	-	-	-	-	-	-	-	-	-	-	-	-

Inpro®† seal is standard on both ends of 841 PLUS® non-flanged motors.

- Inpro®† seal is standard on both ends of 841 PLUS® non-flanged motors.
- Can be added to Cooling Tower ratings if shaft up assembly position

Space Heaters

ODP or TEFC Motors

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	210	210	250	250	320	380	420	420	480	480	480	480	480

XP Motors

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	-	-	-	500	640	760	840	840	960	960	-	-	-

Space heaters are installed to prevent moisture condensation in the motor during times the motor is not running. NMC uses silicon rubber strip-type heaters manufactured by sandwiching a resistance wire network between two pieces of high-temperature silicon rubber and bonding the pieces together. Heaters are sized to provide approximately 10°C temperature rise above the ambient temperature.

Heaters are placed on the end turns of the motor winding. Heaters are of the low density type, which yields low surface temperature and long life. Heaters are single phase, rated 60 or 50 Hertz.

Space Heaters are available in the following voltages:

115, 230 & 460 Volt

230 Volt operated at 115 Volt (not offered for XP motors)

Testing

Short Commercial Test, Un-Witnessed

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	282	282	282	612	612	612	612	612	612	612	612	380	380

A Short Commercial Test, per NEMA®† MG-1 Part 12, consists of no load current, locked rotor current (performed at reduced voltage, typically 25-50%), winding resistance, high potential, and bearing inspection. A test report is provided to the customer.

Complete Initial Test, Un-Witnessed

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	Contact an Nidec Motor Corporation Representative for pricing												

A Complete Initial Test consists of full load heat run, percent slip, no load current, full load current, locked rotor current, locked rotor torque, breakdown torque (calculated), efficiency & power factor at 100%, 75% & 50% full load, winding resistance, high potential, and bearing inspection. This test is performed in accordance with IEEE 112 Method B. A test report is provided to the customer. Motor will be shipped to an NMC facility with a calibrated lab for testing and will require additional leadtime.

Contact an NMC Technical Representative for availability and leadtime.

Horizontal Motors Conversions & Accessories Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

Thermal Protection, Windings

Thermostats

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	200	200	200	200	300	300	300	400	400	400	400	460	460

Thermostats: Snap action, bi-metallic, temperature actuated switches installed on the end-turns of the motor winding. Their purpose is to activate a warning device or shut down the motor upon excessive winding temperatures. Standard arrangement is addition of 2 or 3 thermostats to the winding end-turns, connected in series with the leads brought out to the main motor conduit box.

The following options are available:

TW01 Thermostats, normally closed

TW02 Thermostats, normally open

TW06 Thermostats, normally closed, hermetically sealed

Not offered on XP motors

Thermistors

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	725	725	725	725	725	725	725	725	725	725	725	-	-

Thermistors: Non-linear resistance temperature detector made from semi-conductor material. Standard arrangement is Q-3 positive temperature coefficient (PTC) type on winding end-turns with leads brought out to the main motor conduit box.

Available on non-Explosionproof motors.

The following options are available:

TW10 Thermistors (PTC Type), Siemens®, 6 leads out

THERMA SENTRY®†

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	1740	1740	1740	1740	1820	1820	1820	1820	1820	1820	1820	1130	1130

THERMA SENTRY®†: Complete protection system consisting of three thermistors and a solid state control module (shipped loose for customer mounting). It will protect the motor for locked rotor, starting overload, running overload, abnormally high ambient temperatures, voltage unbalance, high or low voltages, ventilation failure, and single phasing.

Available on non-Explosionproof motors.

The following options are available:

TW20 THERMA SENTRY®†, 115/230V, SMSE, normally closed contact

(SMSE = separately mounted, separately excited control module)

Thermocouples

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	209	209	209	209	419	419	419	419	419	419	2417	-	-

Thermocouples: A pair of dissimilar conductors so joined at one point that an electromotive force is developed by the thermoelectric effects. Standard arrangement is addition of thermocouples to the winding end-turns with leads brought out to the main motor conduit box.

Available on non-Explosionproof motors.

The following options are available:

TW32 Thermocouples, Iron Constantan (Type J)

Tropicalization / High Moisture Protection

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	242	242	242	242	354	354	354	354	612	612	612	-	-

Winding coated with Dolph®† polyurethane for superior protection in high moisture environments.

Not available on Titan non-Marine Duty or Cooling Tower ratings

Vector Encoder Conversion

Encoder

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000
Adder:	(QP)	(QP)	(QP)	(QP)	(QP)	(QP)	(QP)	(QP)	(QP)	(QP)	-	(QP)	-

To convert an inverter duty motor (Type UTNX, UTNI, UTI, CTI, TCBX, or JEBX) to include an encoder. See page 101 for Encoder Availability.

Integral Horsepower Motor Type Code Identification Chart Horizontal Motors

Type Code	Motor Description	Phase	Efficiency
CE	841 PLUS®	Three Phase	Premium Efficient
CTE	HOSTILE DUTY® TEFC	Three Phase	Premium Efficient
CTI	HOSTILE DUTY® TEFC	Three Phase	Inverter Duty
FCT	HOSTILE DUTY® TEFC	Three Phase	Energy Efficient
DE, RE	Open Drip Proof	Three Phase	Premium Efficient
FUT	UNIMOUNT® TEFC	Three Phase	Energy Efficient
JDE	Automotive Duty	Three Phase	Energy Efficient
TCE	CORRO-DUTY® TEFC	Three Phase	Premium Efficient
TCI	CORRO-DUTY® TEFC	Three Phase	Inverter Duty
UT	UNIMOUNT® TEFC	Three Phase	Standard Efficient
UTE	UNIMOUNT® TEFC	Three Phase	Premium Efficient
UTF	UNIMOUNT® TEFC, Footless	Three Phase	Standard Efficient

Vertical Motors Conversions & Accessories Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

Bearings

Extra High Thrust (175%)

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	-	-	-	-	5%	5%	5%	5%	5%	5%

Available only on Premium Efficient Vertical HOLLOSHAFT® WPI (Type RUS, RUSI, RUE & RUEI).

Coupling

Change to Alternate Coupling Size

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Standard drive coupling can be changed to an alternate size at no charge, if specified at time of motor order.

Conduit Boxes

Accessory Conduit Box

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	901	901	901	901	901	901	901	901	901	901

A condulet can be added to the main motor conduit box for routing of accessory leads. Available on WPI and TEFC ratings.

Rotate Conduit Box

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	235	235	235	235	235	235	235	235	235	235

Standard conduit box has lead opening facing down. This conversion includes rotating the conduit box so the lead opening is facing the desired direction.
Specify direction of lead opening: Facing up; Facing left (when facing the conduit box); Facing right (when facing the conduit box)
Available at no charge if specified at time of order placement.

Cast Iron Conduit Box

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	-	-	-	-	293	469	587	704	-	-

Replacement of steel conduit box with cast iron version.
Available on HOLLOSHAFT®, 320 frame and larger.

Size 2 Cast Iron Box (1-3.5 NPT Openings)

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	-	-	-	-	-	-	1408	1408	-	-

Size 3 Cast Iron Box (2-3.5 NPT Openings)

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	-	-	-	-	-	-	3477	3477	3477	3477

Division 2 Self Certified & Division 2 CSA®† Certified

(+) Refer To The Charts Below For Pricing

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	(+)	(+)	(+)	(+)	(+)	(+)	(+)	(+)	-	-

The following restrictions apply:

Contact an NMC Technical Representative to confirm availability.
Inverter suitability limited to T1-T3 T-codes.
Zone 2 markings available on separate Division 2 nameplate options.
Only Available on TEFC TUS (320-447 frame), JUE, TVCS & TCEF Motor Types models.
Class II not available
Temp codes T-4 to T-6 not available.

Division 2 Self Certified & Division 2 CSA®† Certified *(continued)*

Class I, Grps. A/B/C/D T1-T3 T-Codes On Main N/P @ 1.0 SF (On TUS, JUE, TVCS & TCEF Models – Standard Rating ONLY)

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	NC	NC	NC	NC	NC	NC	NC	NC	NC	-

Contact an NMC Technical Representative to confirm availability.

Class I, T-Code T1-T3C on Separate Division 2 Plate (Self Certified)

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	100	100	100	100	100	100	100	100	100	-

Contact an NMC Technical Representative to confirm availability.

Class I, T-Code T1-T3C On Separate CSA Division 2 Plate (CSA)

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	100	100	100	100	100	100	100	100	100	-

Contact an NMC Technical Representative to confirm availability.

Drains (Breather/Drains)

T-Type Breather/Drain

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	70	70	94	94	94	117	117	117	-	-

Install T-Type breather/drains in place of standard drains.

Available on 180-447 frame cast iron enclosed motors.

Export Boxing

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	(@)	(@)	(@)	(@)	(@)	(@)	(@)	(@)	(@)	(@)

Product is boxed, packaged or crated as required for under deck exporting.

(@) Refer to Optional Export Packing Charges Section.

Flanges

Change P-Base Bracket to Alternate "BD" Dimension

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Replace standard “P” base bracket with one of different "BD" dimension.

Available at no charge if specified at time of motor order.

Ground Lug

In Conduit Box

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	108	108	108	108	108	108	108	108	108	108

Addition of ground lug in main motor conduit box.

Vertical Motors Conversions & Accessories Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

Leads

Tie Back Leads

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	399	587	587	892	892	892	892	892	892	-

Reconnect dual voltage 9-lead or 12-lead motors to 3-lead single voltage. Tie back and connect leads inside frame for single voltage 3-lead conduit box connections. Specify desired voltage when ordering.

Nameplates

Additional Duplicate Nameplate

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	235	235	235	235	235	235	235	235	235	235

An additional duplicate nameplate for mounting on customer equipment. These additional nameplates cannot be supplied with CSA® or UL® logos.

Additional Stamping On Main Nameplate

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	235	235	235	235	235	235	235	235	235	235

The main motor nameplate can be stamped with limited customer tagging information (20 characters max).

Shipping Tag (#6 Paper Tag)

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

A #6 paper shipping tag, with customer tagging information, can be supplied at no charge when specified at time of motor order.

Special I.D. Plate

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	235	235	235	235	235	235	235	235	235	235

Special identification plates can be mounted on the motor with limited customer specified tagging information (100 characters max).

Re-Nameplate (Re-Rate)

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	235	235	235	235	235	235	235	235	235	235

Motors can be re-nameplated (after approval) for alternate ratings. Changes in horsepower, altitude, ambient, voltage, frequency, etc.

Contact an NMC Technical Representative for approval prior to quoting.

Firepump Label

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%

Percentage adders are percent of base list price. UL® Listed (File E187977) firepump motors are designed per UL-1004A® and meet the NFPA-20® "Standard for the Installation of Centrifugal Fire Pump Spec". This conversion is to add the firepump label.

Contact your NMC Technical Representative with exact rating to confirm that it meets the firepump requirements.

Non-Reverse Ratchet

Bolted Coupling - Add or Remove

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Remove non-reverse ratchet (NRR) and convert motor to self-release coupling (SRC) or bolted coupling.

Available at no charge if specified at time of motor order.

Non-Reverse Ratchet *(continued)*

Clockwise Non-Reverse Ratchet

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	-	-	-	-	469	469	469	469	-	-

Remove non-reverse ratchet (NRR) and (Counter Clockwise Rotation) and replace with a Clockwise Rotation (when looking down on the motor) non-reverse ratchet.
Available only on Premium Efficient Vertical HOLLOSHAFT® WPI (Type RUSI & HUSI)

Prints & Data (Submittals)

(Net Adders)

Frame:	56	140	180	210	250	280	320	360	400	444-447	449(DP)	449(TE)	5000	5800
Adder:	(QP)	(QP)	(QP)	(QP)	(QP)	(QP)	(QP)	(QP)	(QP)	(QP)	(QP)	(QP)	(QP)	(QP)

Submittals adders are NET ADDERS. (QP) refer to Vertical motors quick pick chart.
The following submittals are considered standard submittals, and are available at no charge if requested at time of motor order:

- Certified Dimension Print
- Performance Data
- Nameplate Data
- Instruction Manual
- Wiring Diagram
- Parts List
- Recommended Spare Parts
- Bearing Life Calculation
- Conduit Box Details
- Paint Specification
- Rotor Air Gap (Calculated)
- Rotor Inertia
- Cut Sheets For Accessories

Space Heaters

(Double Adder for Explosionproof Motors)

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	477	477	512	512	596	643	643	643	1326	1326

Space heaters are installed to prevent moisture condensation in the motor during times the motor is not running. NMC uses silicon rubber strip-type heaters manufactured by sandwiching a resistance wire network between two pieces of high-temperature silicon rubber and bonding the pieces together. Heaters are sized to provide approximately 10°C temperature rise above the ambient temperature.

Heaters are placed on the end turns of the motor winding. Heaters are of the low density type, which yields low surface temperature and long life. Heaters are single phase, rated 60 or 50 Hertz.

Space Heaters are available in the following voltages:
115, 230, 460 & 575 Volt
230 Volt operated at 115 Volt

Steady Bushing Kit

(Attached To Motor Eyebolt)

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	202	202	202	202	300	300	300	300	418	418

Steady bushing comes as a field-installable kit, and is shipped attached to the motor eyebolt.

Vertical Motors Conversions & Accessories Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

Tests

Short Commercial Test, Un-Witnessed

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	662	662	662	662	662	662	662	662	662	662

A Short Commercial Test, per NEMA® MG-1 Part 12, consists of no load current, locked rotor current (performed at reduced voltage, typically 25-50%), winding resistance, high potential, and bearing inspection. A test report is provided to the customer.

Complete Initial Test, Un-Witnessed

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	Contact an Nidec Motor Corporation Representative for pricing									

A Complete Initial Test consists of full load heat run, percent slip, no load current, full load current, locked rotor current, locked rotor torque, breakdown torque (calculated), efficiency & power factor at 100%, 75% & 50% full load, winding resistance, high potential, and bearing inspection. This test is performed in accordance with IEEE 112 Method B. A test report is provided to the customer. Motor will be shipped to an NMC facility with a calibrated lab for testing and will require additional leadtime.

Contact an NMC Technical Representative for availability and leadtime.

Thermal Protection, Bearings (Upper Bracket)

Resistance Temperature Detectors (RTD's), 10 or 120 Ohm

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	-	-	-	-	1338	1338	1338	1338	1338	1338

Resistance Temperature Detector (RTD): Precision, wire-wound resistors with a known temperature-resistance characteristic. NMC does not furnish the monitor.

Available only on Vertical HOLLOSHAFT® WPI (Type RUS, RUSI, RUE & RUEI). Available on Upper Bracket Only

The following options are available:
TB40 10 Ohm, 3 lead
TB41 120 Ohm, 2 lead
TB42 100 Ohm, 3 lead

Resistance Temperature Detectors (RTD's), 100 Ohm

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	-	-	-	-	1338	1338	1338	1338	1338	1338

Resistance Temperature Detector (RTD): Precision, wire-wound resistors with a known temperature-resistance characteristic. NMC does not furnish the monitor.

Available only on Premium Efficient Vertical HOLLOSHAFT® WPI (Type RUSI & HUSI). Available on Upper Bracket Only.

The following option is available:
TB42 100 Ohm, 3 Lead

Thermal Protection, Windings

Thermostats (Double Adder for Explosionproof Motors)

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	265	265	265	265	418	519	519	519	519	519

Thermostats: Snap action, bi-metallic, temperature actuated switches installed on the end-turns of the motor winding. Their purpose is to activate a warning device or shut down the motor upon excessive winding temperatures. Standard arrangement is addition of 2 or 3 thermostats to the winding end-turns, connected in series with the leads brought out to the main motor conduit box.

The following options are available:
TW01 Thermostats, normally closed
TW02 Thermostats, normally open
TW06 Thermostats, normally closed, hermetically sealed

Vertical Motors Conversions & Accessories Descriptions & Adders

DISCOUNT SYMBOL: SAME AS MOTOR BEING CONVERTED

Thermal Protection, Windings *(continued)*

Thermistors

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	472	472	472	472	669	669	876	876	876	876

Thermistors: Non-linear resistance temperature detector made from semi-conductor material. Standard arrangement is Q-3 positive temperature coefficient (PTC) type on winding end-turns with leads brought out to the main motor conduit box.
The following options are available:
TW10 Thermistors (PTC Type), Texas Instruments®, 6 leads out

THERMA SENTRY®†

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	587	587	587	587	587	587	587	1150	1150	1150

THERMA SENTRY®†: Complete protection system consisting of three thermistors and a solid state control module (shipped loose for customer mounting). It will protect the motor for locked rotor, starting overload, running overload, abnormally high ambient temperatures, voltage unbalance, high or low voltages, ventilation failure, and single phasing.

Available on non-Explosionproof motors.

The following options are available:
TW20 THERMA SENTRY®†, 115/230V, SMSE, normally closed contact
(SMSE = separately mounted, separately excited control module)

Thermocouples

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	3434	3434	3434	3434	3434	3434	3434	3434	3434	3434

Thermocouples: A pair of dissimilar conductors so joined at one point that an electromotive force is developed by the thermoelectric effects. Standard arrangement is addition of thermocouples to the winding end-turns with leads brought out to the main motor conduit box.

The following options are available:

TW32 Thermocouples, Iron Constantan (Type J)

Vibration Detector

Robertshaw®†, Model 366

Frame:	180	210	250	280	320	360	400	444-447	449	5000
Adder:	-	-	-	-	1878	1878	1878	1878	-	-

Available only on Premium Efficient Vertical HOLLOSHAFT® WPI (Type RUSI).

Integral Horsepower Motor Type Code Identification Chart Vertical Motors

Type Code	Motor Description	Phase	Efficiency
AUS, RUS, RUE	WPI Vertical, HOLLOSHAFT®	Three Phase	Premium Efficient
AUI, RUSI, RUEI	WPI Vertical, HOLLOSHAFT®	Three Phase	Premium Efficient
AUR, AUC	WPI Vertical, HOLLOSHAFT®	Single Phase	Standard Efficient
AVS, RVS	WPI Vertical, Solid Shaft	Three Phase	Premium Efficient
TUS, JUE	TEFC, HOLLOSHAFT®	Three Phase	Premium Efficient
TUCI, JUCEI	TEFC, HOLLOSHAFT®	Three Phase	Premium Efficient
TVCS	TEFC, Solid Shaft	Three Phase	Premium Efficient

Optional Export Packing Charges

Nidec can provide export boxes for our motors at our international fulfillment center in Southaven, MS (near Memphis, TN). Material used in 2 x 4 for framing and 1/2" plywood for walls and top. Shipping marks are stenciled on the outside of the export box.

The following net adders and lead-times are to be used for this option:

NEMA®† AND TITAN FRAME SIZES

Frame Size	Horizontal Motors		Vertical Motors		Lead Time (Days)
	Export Box	Gang Boxing	Export Box	Gang Boxing	
140	$96	$300 / 24 Max	$90	$300 / 18 Max	5
180	$96	$300 / 18 Max	$90	$300 / 9 Max	5
210	$96	$300 / 12 Max	$90	n/a	5
250	$96	$300 / 4 Max	$90	n/a	5
280	$96	$300 /4 Max	$90	n/a	5
320	$125	n/a	$225	n/a	5
360	$125	n/a	$225	n/a	5
400	$225	n/a	$250	n/a	5
444-445	$300	n/a	$350	n/a	5
447-449	$400	n/a	$500	n/a	5
5000	$750	n/a	$900	n/a	5
5800	$1,000	n/a	$1,000	n/a	5
6800	$1,500	n/a	$1,500	n/a	5
8000	$2,200	n/a	$2,200	n/a	5
9600	$3,500	n/a	$3,500	n/a	5

Container Loading (Including stacking and bracing)

20 foot container $750 Net
40 foot container $1,000 Net

Replacement Parts

Standard export packing in wooden boxes 5% net value (minimum $90 per box)

Storage

Long term storage – refer to office

All above charges are subject to change without notice.

Product Specification Guide
Standard Stock or Mod-Center Three Phase Motor Features

	Open Driproof (ODP)				Totally Enclosed Fan Cooled (TEFC)				
Type	FD	FR	DE, DI	RE, RI	FUT/FUTF	FCT	UTE/UTI	CTE	CTI-v(a)/CTI-C(a)
HP Range	1-60	30-400	1-60	30-250	1-30	1-200	1-30/1-20	1-200	1-200/1-150
Frame Range	143-320	360-449	143-320	360-449	56-A286	143-447	143-256	143-447	143-447
Frame Material	Steel	Cast Iron	Steel	Cast Iron	Alum. (1)	Cast Iron (1)	Alum. (1)	Cast Iron (1)	Cast Iron (1)
End Shield Material	140-250 Al 280-320 CI	Cast Iron	140-250 Al 280-320 CI	Cast Iron	Alum.	Cast Iron	Alum.	Cast Iron	Cast Iron
Fan Cover Material	NA	NA	NA	NA	Plastic	Steel	Plastic	Steel	Steel
Conduit Box Material	Steel	Steel	Steel	Steel	Steel (2)	Steel	Steel (2)	Steel	Steel
Hardware	Grade 5 (15)	Grade 5 (15)	Grade 5 (15)	Grade 5 (15)	Std	Grade 5 (15)	Std	Grade 5 (15)	Grade 5 (15)
Mounting	Welded Base	Cast Iron	Welded Base	Cast	56/140 Welded Base 180-280 Bolted Base	Cast 180-440	56/140 Welded Base 180-280 Bolted Base	Cast 180-440	Cast 180-440
C-Face Available	No	No	No	No	Kits (6)/ Std	Kits Thru 440 (5)	Kits (6)/ Std	Kits Thru 440 (5)	Kits 140-440
D-Flange	No	No	No	No	Kits 140-180 (6)	Kits 140-180 (6)	Kits 140-180 (6)	Kits 140-360 (5)	Kits 180-360
Brakes	No	No	No	No	Kits Thru 210	No	Kits Thru 210	No	No
Grounding	Stud in C/Box	Stud in C/Box	Stud in C/Box	Stud in C/Box	Stud in C/Box	Stud in C/Box	Stud in C/Box	Stud in C/Box	Stud in C/Box

	Severe Duty	IEEE-841	Hazardous Location		Vector Duty	Automotive Duty	Washdown Duty	Brake Motors	IEC	TEAO
Type	TCE	CE	FL/LF/LE	FLC/LCE	CTNX/CTX	JDEF	FWEN/FWEF/FWER	BRST/BRCO	MMLS	UTN
HP Range	1-200	1-200	1/2-150 1/3-15	1-100	1-10 1-200	1-100 1-100 1/4-300	1-10	1/3-2 1/3-20	1.5-200	1-15
Frame Range	143-447	143-447	56-445 56-256	143-444	143-256 143-447	180-447 180-445 56-5008	143-215	56-145 56-256	80-315	143-254
Frame Material	Cast Iron (1)	Cast Iron	Cast Iron (1)	Cast Iron (1)	Cast Iron (1)	Cast Iron (1)	Steel	Alum.	Alum.	Alum. (1)
End Shield Material	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron	DE-Cast Iron ODE-Alum.	Alum.	Alum.	Alum.
Fan Cover Material	Cast Iron	Cast Iron	Steel	Cast Iron	NA/ Steel	Steel	Steel	Steel	Steel	NA
Conduit Box Material	Cast Iron	Cast Iron	Cast Iron (3)	Cast Iron (3)	Steel	Steel	Steel	Alum.	Alum.	Steel (2)
Hardware	Grade 5 (15)	Grade 5 (15)	Grade 5 (15)	Grade 5 (15)	Std	Grade 5 (15)	Stainless Steel	Std	Std	Std
Mounting	Cast 180-440	Cast 180-440	Cast 180-440	Cast 180-440	Cast 180-440	Cast 180-5008	Welded Base	Cast (17)	Cast (17)	Bolted Base
C-Face Available	Kits 140-440	Kits 140-440	Yes	No	No	Kits Thru 360	No/Yes/Yes	Yes	Kits 80-132	Kits (6)
D-Flange	Kits 180-360	Kits 180-360	No	No	No	Kits Thru 440	No	No	NA	Kits 140-180 (6)
Brakes	No	No	No	No	No	Kits 140-360	No	Std	No	Kits Thru 210
Grounding	Lug in C/Box	C/Box & External	Stud in C/Box	Stud in C/Box	Stud in C/Box	Stud in C/Box	Stud in C/Box	Terminal Block	Terminal Block	Stud in C/Box

Product Specification Guide
Standard Stock or Mod-Center Three Phase Motor Features

	Open Driproof (ODP)				Totally Enclosed Fan Cooled (TEFC)			
		C-Face	Split Phase	STD Crop Dryer			C-Face	
Type	SOR / SORM / SOC	SOF	SSOC	DM/DMA	SER, SM	SEFM	SEF	SEFM
HP Range	1/4-1.5 / 1/4-1.5 / 1/4-1	1/4-1.5	1/4-1/3	1-10/5-12	1/4-10	1/3-1	1/4-2	1/4-1
Frame Range	48-56	56	48/56	143-215	48-215	48-56	56-145	56-145
Frame Material	Steel	Steel	Steel	Steel	Steel	Steel	Steel	Steel
End Shield Material	Alum.	Alum.	Alum.	Alum.	Alum.	Alum.	Alum.	Alum.
Fan Cover Material	NA	NA	NA	NA	Steel	Steel	Steel	Steel
Conduit Box Material	NA	Steel	NA	Steel	Steel	Steel	Steel	Steel
Mounting	Welded	C-Face Round	Resilient	Welded	Bolt-on (2)	Bolt-on (2)	C-Face Round	C-Face Round
Service Factor	1.25+(3)	1.15+	1.35	1.15/ Special	1.15 (3)	1.00 (3)	1.15	1.15
Insulation Class	B	B	B	B	B	B	B	B
Thermal Protection	None/Manual/ Auto	None	Auto	None/ Thermostat	None	Manual	None	Manual
Shaft Slinger	No	No	No	No	No	No	No	No
Bearing Type	Sealed	Sealed	Sleeve	Double Shielded	Sealed C/Box	Sealed C/Box	Sealed C/Box	Sealed C/Box

	Agri Duty	Agri Duty Ultra Torque		Aeration Fan	Hazardous Location	Jet Pump	Close Coupled Pump	Washdown Duty
Type	SMA	TMA	TMQ	SN	SLR, SLF	SOJ	UTM	SEFM
HP Range	1/3-1	1.5-10	1-10	3/4-1	1/4-1	1/3-1.5	3-10	1/4-1
Frame Range	56	143-215	143-215	56	56	56	184-215	56-145
Frame Material	Steel	Steel	Alum.	Steel	Steel	Steel	Alum.	Steel
End Shield Material	Alum.	Alum.	Alum.	Alum.	Alum.	Alum.	Alum.	Alum.
Fan Cover Material	Steel	Steel	Plastic	NA	Steel	Plastic	Plastic	Steel
Conduit Box Material	Alum.	Alum. (1)	Alum. (1)	NA	NA	Steel	Alum.	Steel
Mounting	Welded	Welded	Bolt-on	Welded	Welded/C-Face	C-Face Round	Bolt-on	C-Face Footed
Service Factor	1.15	1.00	1.15	1.00	1.20+	1.20+	1.15	1.15
Insulation Class	B	F	F	B	B	B	F	F with B Rise
Thermal Protection	Manual	Manual	Manual	Auto	Auto	Auto		
Shaft Slinger	Yes	Yes	Yes	No	No	No	Yes	Yes
Bearing Type	Sealed/ Shielded	Sealed	Shielded	Sealed	Sealed	Sealed	Double Shielded	Double Sealed

(a) CTI-V is 10:1 Variable Torque, CTI-C is 10:1 Constant Torque Inverter Duty
(b) JAD, JADF & JDE are 65°C Alternate Ambient at 1.0SF
(c) CTI-C and CTNX are NEMA® Design 'A'
(d) 50/60 Hz on 230/460 volt & 460 volt only, 60 Hz on 200 & 575 volt
(1) 56 and 140 Frame is Rolled Steel
(2) Aluminum on 250 and A280 Frame
(3) 56 Frame is Steel
(4) "Inverter Grade" Insulation Meets NEMA® MG1, Part 31
(5) 140-250 Frame 'BA' dimension is non-NEMA®
(6) 56 and 140 Frame 'BA' Dimension is non-NEMA®
(7) 'B' rise on 60Hz only
(8) 'B' rise @ 1.0 SF on Sine Wave Power only
(9) Sealed on 56 and 140 Frame
(10) 1.0 SF on Inverter Power
(11) 360 Frame is Double Shielded
(12) Open
(13) Open Bearing 400-440 Frame
(14) Double Shielded 140 Frame
(15) Zinc Plated
(16) Sealed to 132, Semi-protected 160-200, Open 225 and Above
(17) 200 & 225 Bolt-on Base

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365663	$202.00	262
365664	$202.00	262
365665	$202.00	262
365666	$300.00	262
365667	$300.00	262
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365679	$300.00	263
365680	$300.00	263
365681	$300.00	263
365682	$300.00	263
369268	$175.00	271
369269	$208.00	271
370421	$333.00	269
370422	$222.00	274
374790	$60.00	269
412700	$1,211.00	279
412701	$1,211.00	279
416476	$417.00	276
416477	$243.00	276
424742	$583.00	269
425854	$292.00	269
425855	$342.00	271
425916	$755.00	276
425917	$343.00	276
426051	$375.00	269
426052	$475.00	271
427416	$783.00	269
427503	$1,583.00	269
427505	$1,583.00	269
427670	$242.00	269
427671	$267.00	271
427672	$242.00	269
428973	$417.00	269
428974	$542.00	271
430512	$200.00	269
430514	$317.00	271
430515	$400.00	271
430516	$417.00	271
437236	$667.00	271
437238	$908.00	271
441496	$2,615.00	279
447733	$1,687.00	281
472131	$233.00	274
474395	$1,658.00	271
476030	$1,658.00	271
498926	$1,375.00	276
639886	$700.00	274
646574	$383.00	269
646575	$583.00	271
646588	$1,250.00	281
646589	$1,250.00	271
646590	$1,317.00	271
646591	$1,250.00	269
646592	$1,250.00	269
649894	$320.00	269
649896	$467.00	271
885267	$150.00	276
885268	$162.00	276

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885273	$212.00	276
885274	$330.00	276
885275	$400.00	276
888910	$150.00	269
888916	$233.00	271
888917	$250.00	271
888949	$343.00	276
888950	$833.00	276
888953	$1,223.00	276
888954	$1,355.00	276
895716	$233.00	276
958191	$691.00	278
958192	$1,086.00	278
958193	$1,086.00	278
958194	$984.00	278
958195	$984.00	278
964220	$441.00	278
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964222	$607.00	278
964223	$510.00	278
964224	$510.00	278
964225	$607.00	278
964226	$510.00	278
964227	$984.00	278
964252	$1,017.00	278
964723	$2,282.00	281
967059	$150.00	274
967060	$250.00	274
967061	$275.00	274
967062	$333.00	274
967063	$517.00	274
967065	$1,133.00	274
967066	$1,583.00	274
967067	$1,800.00	274
969573	$100.00	274
969574	$172.00	274
969575	$192.00	274
969578	$267.00	274
969579	$300.00	274
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970276	$418.00	263
970277	$418.00	263
970278	$418.00	263
970279	$418.00	263
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978161	$300.00	263
978162	$300.00	263
978163	$300.00	263
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2002477	$217.00	269
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2002519	$333.00	271
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2003139	$850.00	271
2003209	$550.00	269
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2037058	$418.00	263
2037059	$418.00	263
2037060	$418.00	263
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2042522	$2,030.00	269
2042523	$2,126.00	271
2042524	$2,126.00	271
2046247	$417.00	268
2046248	$542.00	270
2057073	$1,281.00	279
2059318	$400.00	275
2059319	$233.00	275
2059320	$333.00	273
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2059322	$583.00	270
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2059696	$475.00	270
2059782	$330.00	275
2059783	$212.00	275
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2060204	$342.00	270
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2060432	$193.00	275
2060433	$275.00	273
2060434	$275.00	268
2060435	$333.00	270
2060739	$583.00	268
2060740	$417.00	275
2060741	$243.00	275
2060742	$700.00	273
2060743	$550.00	268
2061427	$783.00	268
2061476	$755.00	275
2061477	$343.00	275
2061478	$750.00	268
2063313	$383.00	269
2063317	$550.00	269
2063322	$750.00	269
2063325	$1,583.00	269
2063328	$1,583.00	269
2063330	$2,030.00	269
2063332	$2,030.00	269
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2063437	$200.00	268
2063438	$250.00	270
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2064245	$125.00	275
2064246	$150.00	273
2064247	$150.00	268
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2064679	$250.00	273
2065842	$1,250.00	268
2065878	$1,223.00	275
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2066054 & 900460	$1,725.00	268
2066298	$1,583.00	268
2066299	$1,583.00	268
2066353 & 900461	$2,163.00	268
2066397	$1,355.00	275
2066398	$833.00	275
2066399	$1,583.00	268
2066545	$1,583.00	268
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2074161	$418.00	263
2074162	$418.00	263
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2080476	$1,250.00	270
2080477	$1,250.00	270
2087668	$418.00	263
2087669	$418.00	263
2087670	$418.00	263
2087671	$418.00	263
2087672	$418.00	263
2098530	$250.00	272
2098531	$252.00	272
2098543	$333.00	272
2098544	$292.00	272
2098566	$467.00	272
2098567	$375.00	272
2098584	$583.00	272
2098589	$650.00	272
2098603	$850.00	272
2098609	$1,250.00	272
2098619	$1,658.00	272
2098620	$1,658.00	272
2109764	-	274
2110004	$984.00	278
2095922-000	$196.00	273
2095925-000	$231.00	273
2095943-000	$265.00	273
2095946-000	$340.00	273
2095963-000	$375.00	273
2095967-000	$505.00	273
2095982-000	$634.00	273
2096007-000	$188.00	273
2096008-000	$188.00	273
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620282-000	$466.00	280,281
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620290-000	$775.00	280,281
620291-000	$830.00	280,281
620292-000	$830.00	280,281
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6D5P2C	$1,152.00	39
6D60P2CB	$7,315.00	39
6D75P2CB	$8,936.00	39
6D7P2CB	$1,551.00	39
6P15P2CB	$2,707.00	39
6P20P2CB	$3,345.00	39
6P25P2CB	$3,688.00	39
6P30P2CB	$4,137.00	39
6P40P2CB	$5,441.00	39
6P50P2CB	$6,563.00	39
8D100P1CS	$12,296.00	36
8D100P1GS	$12,296.00	36
8D100P2C	$11,146.00	36
8D100P2CB	$11,146.00	36
8D100P2CS	$11,146.00	36
8D100P2G	$11,146.00	36
8D100P2GB	$11,146.00	36
8D100P2GS	$11,146.00	36
8D100P3C	$13,923.00	36
8D100P3CB	$13,923.00	36
8D100P3G	$13,923.00	36
8D10P1C	$1,473.00	35
8D10P1CCR	$1,602.00	38,78
8D10P1G	$1,473.00	35
8D10P2C	$1,511.00	35
8D10P2CCR	$1,640.00	38,78
8D10P2G	$1,511.00	35
8D10P3C	$2,470.00	35
8D10P3G	$2,470.00	35
8D125P1CS	$14,325.00	36
8D125P1GS	$14,325.00	36
8D125P2C	$13,454.00	36
8D125P2CB	$13,454.00	36
8D125P2CS	$13,454.00	36
8D125P2G	$13,454.00	36
8D125P2GB	$13,454.00	36
8D125P2GS	$13,454.00	36
8D125P3C	$17,291.00	36
8D125P3CB	$17,291.00	36
8D125P3G	$17,291.00	36
8D125P3GB	$17,291.00	36
8D150P1CS	$18,160.00	36
8D150P1GS	$18,160.00	36
8D150P2C	$16,203.00	36
8D150P2CB	$16,203.00	36
8D150P2CS	$16,203.00	36
8D150P2G	$16,203.00	36
8D150P2GB	$16,203.00	36
8D150P3C	$19,774.00	36
8D150P3CB	$19,774.00	36
8D150P3G	$19,774.00	36
8D150P3GB	$19,774.00	36
8D15P1C	$1,984.00	35
8D15P1G	$1,984.00	35
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8D15P2G	$1,932.00	35
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8D15P3G	$3,283.00	35
8D1P2C	$663.00	34
8D1P2CCR	$778.00	38,78
8D1P2G	$663.00	34
8D1P3C	$846.00	34
8D1P3CCR	$961.00	38,78
8D1P3G	$846.00	34
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8D200P1GS	$24,818.00	36
8D200P2C	$20,985.00	36
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8D200P2CS	$20,985.00	36
8D200P2G	$20,985.00	36
8D200P2GB	$20,985.00	36
8D200P3C	$26,128.00	36
8D200P3CB	$26,128.00	36
8D20P1C	$2,459.00	35
8D20P1G	$2,459.00	35
8D20P2C	$2,405.00	35
8D20P2G	$2,405.00	35
8D20P3C	$3,891.00	35
8D20P3G	$3,891.00	35
8D250P1CS	$30,379.00	37
8D250P2C	$26,985.00	37
8D250P2CB	$26,985.00	37
8D250P2G	$26,985.00	37
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8D25P1GS	$2,796.00	35
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8D25P2G	$2,705.00	35
8D25P3C	$4,597.00	35
8D25P3G	$4,597.00	35
8D2P1C	$767.00	34
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8D2P1G	$767.00	34
8D2P2C	$779.00	34
8D2P2CCR	$890.00	38,78
8D2P2G	$779.00	34
8D2P3C	$1,098.00	34
8D2P3CKR	$1,227.00	38,78
8D2P3G	$1,098.00	34
8D300P2C	$31,176.00	37
8D300P2CB	$31,176.00	37
8D300P2G	$31,176.00	37
8D30P1CS	$3,355.00	35
8D30P1GS	$3,355.00	35
8D30P2C	$3,212.00	35
8D30P2G	$3,212.00	35
8D30P3C	$5,139.00	35
8D30P3G	$5,139.00	35
8D32P1C	$739.00	34
8D32P1CCR	$805.00	38,78
8D32P1G	$739.00	34
8D32P2C	$709.00	34
8D32P2CCR	$817.00	38,78
8D32P2G	$709.00	34
8D32P3C	$935.00	34
8D32P3G	$935.00	34
8D3P1C	$854.00	34
8D3P1CKR	$993.00	38,78
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8D3P2C	$815.00	34
8D3P2CCR	$954.00	38,78
8D3P2G	$815.00	34
8D3P3C	$1,453.00	34
8D3P3CCR	$1,503.00	38,78
8D3P3G	$1,453.00	34
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8D40P1GS	$4,815.00	35
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8D40P2G	$4,009.00	35
8D40P3C	$6,403.00	35
8D40P3G	$6,403.00	35
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8D50P2C	$4,976.00	35
8D50P2G	$4,976.00	35
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8D50P3G	$7,964.00	35
8D5P1C	$1,013.00	34
8D5P1G	$1,013.00	34
8D5P2C	$929.00	34
8D5P2CCR	$1,196.00	38,78
8D5P2CKR	$1,196.00	38,78
8D5P2G	$929.00	34
8D5P3C	$1,874.00	34
8D5P3CCR	$2,004.00	38,78
8D5P3G	$1,874.00	34
8D60P1CS	$7,123.00	35
8D60P1GS	$7,123.00	35
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8D60P2G	$6,876.00	35
8D60P3C	$9,369.00	35
8D60P3G	$9,369.00	35
8D75P1CS	$9,172.00	36
8D75P1GS	$9,172.00	36
8D75P2C	$8,501.00	36
8D75P2CB	$9,416.00	36
8D75P2G	$8,501.00	36
8D75P3C	$11,146.00	36
8D75P3CB	$11,146.00	36
8D75P3G	$11,146.00	36
8D75P3GB	$11,146.00	36
8D7P1C	$1,263.00	34
8D7P1CCR	$1,392.00	38,78
8D7P1G	$1,263.00	34
8D7P2C	$1,213.00	34
8D7P2CCR	$1,342.00	38,78
8D7P2G	$1,213.00	34
8D7P3C	$2,039.00	34
8D7P3G	$2,039.00	34
8P300P1CS	$40,551.00	37
8P350P1CG	$60,348.00	37
8P350P2C	$44,306.00	37
8P350P2G	$44,306.00	37
8P400P1CG	$65,353.00	37
8P400P2C	$49,351.00	37
8P400P2CG	$55,889.00	37
8P450P1C	$73,221.00	37
8P450P2C	$62,733.00	37
8P500P1C	$90,599.00	37
8P500P2C	$69,499.00	37
A100P2C	$20,925.00	53
A10P1C	$1,942.00	52
A10P2C	$2,881.00	52
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A10P4C	$4,970.00	52
A15P1C	$2,474.00	52
A15P2C	$3,957.00	52
A15P3C	$5,690.00	52
A15P4C	$6,608.00	52
A1P2C	$1,049.00	52
A1P3C	$1,281.00	52
A20P1C	$3,365.00	52
A20P2C	$4,860.00	52
A20P3C	$6,954.00	52
A20P4C	$8,008.00	52
A25P1CS	$4,317.00	52
A25P2C	$6,083.00	52
A25P3C	$8,396.00	52
A25P4C	$9,387.00	52
A2P1C	$990.00	52
A2P2C	$1,184.00	52
A2P3C	$1,566.00	52
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A30P2C	$7,107.00	53

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A3P1C	$1,123.00	52
A3P2C	$1,361.00	52
A3P3C	$1,938.00	52
A3P4C	$2,452.00	52
A40P1CS	$6,796.00	53
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A40P3C	$12,237.00	53
A50P1CS	$8,579.00	53
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A50P3C	$14,137.00	53
A5P1C	$1,334.00	52
A5P2C	$1,803.00	52
A5P3C	$2,698.00	52
A5P4C	$3,314.00	52
A60P2C	$13,649.00	53
A60P3C	$16,597.00	53
A70905	$105.00	277
A75P2C	$16,834.00	53
A75P3C	$19,679.00	53
A7P1C	$1,622.00	52
A7P2C	$2,371.00	52
A7P3C	$3,448.00	52
A7P4C	$4,228.00	52
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AGH10FL1	$190.00	230
AGH10FL150	$190.00	230
AGH10FL2	$228.00	230
AGH15FL2CS	$285.00	230
AGH75FL1	$171.00	230
AGL10FL1	$182.00	230
AGL10FL1H2	$201.00	230
AGL10FL1NB	$210.00	230
AGL10FL2S	$228.00	230
AGL15FL1H2	$223.00	230
AGL15FL2CS	$285.00	230
AGL50FL1	$155.00	230
AGL75FL1	$165.00	230
AGL75FL2	$214.00	230
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ASB129	$415.00	225
ASB130	$497.00	225
ASB2973H	$431.00	220
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ASB2977	$505.00	220
ASB2979	$616.00	220
ASB2980	$433.00	220
ASB2982	$445.00	220
ASB2983	$507.00	220
ASB2984	$618.00	220
ASB502	$280.00	231
ASB503	$327.00	231
ASB504	$364.00	231
ASB505	$403.00	231
ASB506	$476.00	231
ASB602	$255.00	231
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ASB604	$312.00	231
ASB605	$363.00	231
ASB606	$414.00	231
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ASB634	$333.00	225
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ASB653	$370.00	225
ASB654	$374.00	225
ASB656	$303.00	225
ASB657	$307.00	225
ASB661	$321.00	224
ASB668	$305.00	226
ASB748	$513.00	224,228
ASB795	$410.00	225
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ASB818	$659.00	225
ASB819	$713.00	225
ASB841	$348.00	224
ASB842	$439.00	224
ASB843	$522.00	224
ASB844	$620.00	224,228
ASB845	$292.00	224
ASB846	$247.00	224,228
ASB847	$281.00	224,228
ASB848	$321.00	224,228
ASB850	$705.00	224
ASB858	$423.00	224,228
ASQ065	$232.00	222
ASQ095	$243.00	222
ASQ125	$276.00	222
ASQ165	$321.00	222
ASQ225	$415.00	222
ASQ225H	$415.00	222
ASQ260	$513.00	222
AST095	$236.00	223
AST125	$263.00	223
AST165	$301.00	223
AST225	$415.00	223
AST275	$487.00	223
B100T2B	$15,423.00	100
B100T3B	$22,259.00	100
B10T2BC	$2,569.00	100
B10T3BC	$3,821.00	100
B125T2C	$18,989.00	100
B150T2C	$22,284.00	100
B15T2BC	$3,081.00	100
B15T3B	$5,072.00	100
B200T2C	$26,893.00	100
B20T2BC	$3,603.00	100
B20T3B	$5,952.00	100
B250T2C	$30,505.00	100
B25T2B	$4,232.00	100
B25T3B	$7,072.00	100
B300T2C	$36,616.00	100
B30T2B	$4,784.00	100
B30T3B	$8,152.00	100
B350T2C	$41,585.00	100
B40T2B	$6,132.00	100
B40T3B	$10,681.00	100
B50T2B	$7,285.00	100
B50T3B	$12,131.00	100
B60T2B	$10,178.00	100
B60T3B	$14,207.00	100
B75T2B	$12,634.00	100
B75T3B	$16,525.00	100
BD14CA3J9	-	166
BMU12S2A	$1,011.00	122
BMU12S2ACR	$1,034.00	122
BMU1P2D	$1,461.00	122
BMU1P2DCR	$1,485.00	122
BMU1P2DFCR	$1,540.00	122
BMU1S2A	$1,328.00	122
BMU2P2D	$1,683.00	122
BMU2P2DCR	$1,713.00	122
BMU2P2DFCR	$1,771.00	122
BMU32P2D	$1,703.00	122
BMU32P2DCR	$1,666.00	122
BMU32P2DFCR	$1,728.00	122
BMU34S2A	$1,182.00	122
BMU34S2AFCR	$1,213.00	122
BMU3P2D	$2,277.00	122
BMU3P2DCR	$2,393.00	122
BMU5P2D	$2,830.00	122
BMU5P2DCR	$2,954.00	122
BR13S2A3	$1,377.00	123
BR13S2AC3	$1,523.00	123
BR13S2ACR3	$1,453.00	123
BR34S2A3	$1,412.00	123
C100P1FSCR	$16,042.00	33,260
C100P2FCR	$14,022.00	33,260
C100P2FSCR	$14,022.00	33,260
C10P1DCR	$1,896.00	32,259
C10P2DCR	$1,789.00	32,259
C125P1FSCR	$19,461.00	33,260
C125P2FCR	$16,896.00	33,260
C125P2FSCR	$16,896.00	33,260
C150P1FSCR	$23,468.00	33,260
C150P2FCR	$19,664.00	33,260
C150P2FSCR	$19,664.00	33,260
C150S1WS	$32,804.00	31
C150S2W	$31,538.00	31
C150S3WB	$32,957.00	31
C15P1DCR	$2,617.00	32,259
C15P2DCR	$2,396.00	32,259
C1P1DCR	$818.00	32,259
C1P2DCR	$796.00	32,259
C200P1FSCR	$29,321.00	33,260
C200P2FCR	$23,716.00	33,260
C200P2FSCR	$23,716.00	33,260
C200S1WS	$34,531.00	31
C200S2W	$33,198.00	31
C200S3WB	$40,100.00	31
C20P1DCR	$3,141.00	32,259
C20P2DCR	$2,856.00	32,259
C250P3C	$36,281.00	29
C250P3G	$36,281.00	29
C250P3WB	$48,781.00	31
C250P3WS	$48,781.00	31
C250S1WS	$39,417.00	31
C250S2W	$38,271.00	31
C250T2C	$30,428.00	107
C2P1DCR	$1,013.00	32,259
C2P2DCR	$926.00	32,259
C300P1CS	$33,822.00	29
C300P1WS	$46,793.00	31
C300P2W	$42,910.00	31
C300P3C	$39,704.00	29
C300P3G	$39,704.00	29
C300P3WB	$50,195.00	31
C300P3WS	$50,195.00	31
C300S12S	$42,114.00	31
C300S22	$38,619.00	31
C300T2C	$41,403.00	107
C32P1DCR	$891.00	32,259
C32P2DCR	$866.00	32,259
C350P1CS	$40,405.00	29
C350P1GS	$40,405.00	29
C350P1WS	$52,834.00	31
C350P2W	$51,798.00	31
C350P3WB	$57,695.00	31
C350P3WS	$57,695.00	31

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C350T2C	$49,229.00	107
C3P1DCR	$1,122.00	32,259
C3P2DCR	$1,021.00	32,259
C400P1CS	$50,419.00	29
C400P1WS	$56,819.00	31
C400P2C	$43,843.00	29
C400P2W	$54,576.00	31
C400P3WB	$61,660.00	31
C400P3WS	$61,660.00	31
C40P1FSCR	$5,824.00	32,259
C40P2FCR	$5,234.00	32,259
C40P2FSCR	$5,234.00	32,259
C450P1WS	$65,481.00	31
C450P2W	$61,029.00	31
C450P3WB	$71,310.00	31
C450P3WS	$71,310.00	31
C500P1WS	$70,131.00	31
C500P2W	$68,464.00	31
C500P3WB	$76,529.00	31
C500P3WS	$76,529.00	31
C50P1FSCR	$7,235.00	32,259
C50P2FCR	$6,221.00	32,259
C50P2FSCR	$6,221.00	32,259
C5P1DCR	$1,342.00	32,259
C5P2DCR	$1,145.00	32,259
C600P1WS	$74,190.00	31
C600P2W	$76,750.00	31
C60P1FSCR	$9,632.00	32,259
C60P2FCR	$8,912.00	32,259
C60P2FSCR	$8,912.00	32,259
C75P1FSCR	$11,801.00	33,260
C75P2FCR	$11,015.00	33,260
C75P2FSCR	$11,015.00	33,260
C7P1DCR	$1,665.00	32,259
C7P2DCR	$1,536.00	32,259
CA3406	-	145
CA3407	-	145
CA3408	-	161
CA3409	-	145
CA3410	-	161
CA3411	-	145
CA3412	-	145
CA3413	-	145
CA3414	-	155
CA3415	-	145
CD100P1FS	$10,692.00	29
CD100P1GS	$10,692.00	29
CD100P2F	$9,692.00	29
CD100P2FB	$9,692.00	29
CD100P2FS	$9,692.00	29
CD100P2G	$9,692.00	29
CD100P3F	$12,657.00	29
CD100P3G	$12,657.00	29
CD10P1E	$1,444.00	27
CD10P1EC	$1,411.00	30,77
CD10P1G	$1,444.00	27
CD10P2E	$1,314.00	27
CD10P2EC	$1,444.00	30,77
CD10P2G	$1,314.00	27
CD10P3E	$2,246.00	27
CD10P3G	$2,246.00	27
CD125P1FS	$13,023.00	29
CD125P1GS	$13,023.00	29
CD125P2F	$12,231.00	29
CD125P2FS	$12,231.00	29
CD125P2G	$12,231.00	29
CD125P3F	$15,719.00	29
CD125P3G	$15,719.00	29
CD150P1FS	$16,509.00	29
CD150P1GS	$16,509.00	29
CD150P2F	$14,730.00	29
CD150P2FB	$14,730.00	29
CD150P2FS	$14,730.00	29
CD150P2G	$14,730.00	29
CD150P3F	$17,976.00	29
CD150P3G	$17,976.00	29
CD15P1E	$1,804.00	27
CD15P1G	$1,804.00	27
CD15P2E	$1,757.00	27
CD15P2G	$1,757.00	27
CD15P3E	$2,984.00	27
CD15P3G	$2,984.00	27
CD1P2E	$553.00	27
CD1P2G	$553.00	27
CD1P3E	$705.00	27
CD1P3G	$705.00	27
CD200P1FS	$22,562.00	29
CD200P1GS	$22,562.00	29
CD200P2F	$19,077.00	29
CD200P2FB	$19,077.00	29
CD200P2FS	$19,077.00	29
CD200P2G	$19,077.00	29
CD200P3F	$23,753.00	29
CD200P3G	$23,753.00	29
CD20P1E	$2,236.00	28
CD20P1G	$2,236.00	28
CD20P2E	$2,186.00	28
CD20P2G	$2,186.00	28
CD20P3E	$3,537.00	28
CD20P3G	$3,537.00	28
CD250P1FS	$27,617.00	29
CD250P2F	$24,532.00	29
CD250P2FB	$24,532.00	29
CD250P2G	$24,532.00	29
CD25P1ES	$2,542.00	28
CD25P1ESCR	$3,207.00	32,259
CD25P1FS	$2,542.00	28
CD25P1GS	$2,542.00	28
CD25P2E	$2,459.00	28
CD25P2ECR	$3,124.00	32,259
CD25P2ESCR	$3,124.00	32,259
CD25P2F	$2,459.00	28
CD25P2G	$2,459.00	28
CD25P3E	$4,418.00	28
CD25P3F	$4,418.00	28
CD25P3G	$4,418.00	28
CD2P1E	$640.00	27
CD2P1EC	$735.00	30,77
CD2P1G	$640.00	27
CD2P2E	$649.00	27
CD2P2EC	$744.00	30,77
CD2P3E	$955.00	27
CD2P3G	$955.00	27
CD300P1FS	$33,017.00	29
CD300P1GS	$33,017.00	29
CD300P2F	$28,342.00	29
CD300P2FB	$28,342.00	29
CD300P2G	$28,342.00	29
CD30P1ES	$3,050.00	28
CD30P1ESCR	$3,715.00	32,259
CD30P1FS	$3,050.00	28
CD30P1GS	$3,050.00	28
CD30P2E	$2,920.00	28
CD30P2ECR	$3,585.00	32,259
CD30P2ESCR	$3,585.00	32,259
CD30P2F	$2,920.00	28
CD30P2G	$2,920.00	28
CD30P3E	$5,025.00	28
CD30P3F	$5,025.00	28
CD30P3G	$5,025.00	28
CD32P1E	$616.00	27
CD32P1EC	$711.00	30,77
CD32P1G	$616.00	27
CD32P2E	$591.00	27
CD32P2EC	$686.00	30,77
CD32P2G	$591.00	27
CD32P3E	$813.00	27
CD32P3G	$813.00	27
CD350P2F	$30,899.00	29
CD350P2FB	$30,899.00	29
CD350P2G	$30,899.00	29
CD3P1E	$742.00	27
CD3P1EC	$872.00	30,77
CD3P1G	$742.00	27
CD3P2E	$709.00	27
CD3P2EC	$839.00	30,77
CD3P2G	$709.00	27
CD3P3E	$1,264.00	27
CD3P3G	$1,264.00	27
CD40P1ES	$3,595.00	28
CD40P1FS	$3,595.00	28
CD40P1GS	$3,595.00	28
CD40P2E	$3,486.00	28
CD40P2F	$3,486.00	28
CD40P2G	$3,486.00	28
CD40P3E	$5,568.00	28
CD40P3F	$5,568.00	28
CD40P3G	$5,568.00	28
CD50P1ES	$4,817.00	28
CD50P1FS	$4,817.00	28
CD50P1GS	$4,817.00	28
CD50P2E	$4,327.00	28
CD50P2F	$4,327.00	28
CD50P2G	$4,327.00	28
CD50P3E	$6,925.00	28
CD50P3F	$6,925.00	28
CD50P3G	$6,925.00	28
CD5P1E	$881.00	27
CD5P1EC	$1,011.00	30,77
CD5P1G	$881.00	27
CD5P2E	$808.00	27
CD5P2EC	$938.00	30,77
CD5P2G	$808.00	27
CD5P3E	$1,629.00	27
CD5P3G	$1,629.00	27
CD60P1FS	$6,194.00	28
CD60P1GS	$6,194.00	28
CD60P2E	$6,044.00	28
CD60P2F	$6,044.00	28
CD60P2G	$6,044.00	28
CD60P3F	$8,147.00	28
CD60P3G	$8,147.00	28
CD75P1FS	$7,976.00	28
CD75P1GS	$7,976.00	28
CD75P2E	$7,392.00	28
CD75P2F	$7,392.00	28
CD75P2G	$7,392.00	28
CD75P3F	$9,692.00	28
CD75P3FB	$9,692.00	28
CD75P3G	$9,692.00	28
CD7P1E	$1,098.00	27
CD7P1EC	$1,228.00	30,77
CD7P1G	$1,098.00	27
CD7P2E	$1,055.00	27
CD7P2EC	$1,185.00	30,77
CD7P2G	$1,055.00	27
CD7P3E	$1,854.00	27
CD7P3G	$1,854.00	27
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CHT100V2GLG	$24,122.00	257

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CHT10V1GLE	$4,398.00	257
CHT10V2BLE	$4,307.00	257
CHT10V2GLE	$4,307.00	257
CHT125V2CLG	$33,598.00	257
CHT125V2GLG	$33,598.00	257
CHT150V2CLG	$39,655.00	257
CHT150V2GLG	$39,655.00	257
CHT15V1BLE	$4,945.00	257
CHT15V1GLE	$4,945.00	257
CHT15V2BLE	$6,019.00	257
CHT15V2GLE	$6,019.00	257
CHT200V2CLG	$52,944.00	257
CHT200V2GLG	$52,944.00	257
CHT20V2BLE	$6,703.00	257
CHT20V2GLE	$6,703.00	257
CHT250V2CLJX	$61,776.00	257
CHT250V2GLJX	$61,776.00	257
CHT25V2BLF	$7,565.00	257
CHT25V2GLF	$7,565.00	257
CHT300V2CLJX	$67,994.00	257
CHT300V2GLJX	$67,994.00	257
CHT30V2BLF	$8,337.00	257
CHT30V2GLF	$8,337.00	257
CHT40V2BLG	$10,564.00	257
CHT40V2GLG	$10,564.00	257
CHT50V2BLG	$12,194.00	257
CHT50V2GLG	$12,194.00	257
CHT5V1BLE	$3,893.00	257
CHT5V1GLE	$3,893.00	257
CHT5V2BLE	$3,654.00	257
CHT5V2GLE	$3,654.00	257
CHT60V2CLG	$15,131.00	257
CHT60V2GLG	$15,131.00	257
CHT75V2CLG	$17,917.00	257
CHT75V2GLG	$17,917.00	257
CHT7V1BLE	$4,044.00	257
CHT7V1GLE	$4,044.00	257
CHT7V2BLE	$3,962.00	257
CHT7V2GLE	$3,962.00	257
CNT100P1FG	$18,448.00	261
CNT100P2FG	$16,125.00	261
CNT10P1EE	$2,465.00	261
CNT10P2DE	$2,326.00	261
CNT10P2EE	$2,326.00	261
CNT125P1FG	$22,380.00	261
CNT125P2FG	$19,430.00	261
CNT150P1FG	$26,988.00	261
CNT150P2FG	$22,614.00	261
CNT15P1EE	$3,140.00	261
CNT15P2EE	$2,875.00	261
CNT200P1FG	$33,720.00	261
CNT200P2FG	$27,273.00	261
CNT20P1EE	$3,770.00	261
CNT20P2EE	$3,427.00	261
CNT25P1EE	$4,696.00	261
CNT25P2EE	$4,212.00	261
CNT30P1EE	$5,369.00	261
CNT30P2EE	$4,780.00	261
CNT3P1EE	$1,459.00	261
CNT3P2EE	$1,327.00	261
CNT40P1FG	$6,698.00	261
CNT40P2FG	$6,020.00	261
CNT50P1FG	$8,320.00	261
CNT50P2FG	$7,154.00	261
CNT5P1EE	$1,745.00	261
CNT5P2EE	$1,489.00	261
CNT60P1FG	$11,077.00	261
CNT60P2FG	$10,294.00	261
CNT75P1FG	$13,571.00	261
CNT75P2FG	$12,667.00	261
CNT7P1EE	$2,165.00	261
CNT7P2DE	$1,997.00	261
CNT7P2EE	$1,997.00	261
CVW100V2B6	$15,250.00	56
CVW10V2B6	$1,976.00	56
CVW10V2B8	$1,976.00	56
CVW10V2H6	$1,976.00	56
CVW10V3B6	$3,577.00	56
CVW15V2B6	$2,814.00	56
CVW15V2H6	$2,814.00	56
CVW15V3B6	$5,105.00	56
CVW20V2B6	$3,195.00	56
CVW20V2H6	$3,195.00	56
CVW20V3B6	$5,809.00	56
CVW25V2B6	$4,322.00	56
CVW25V3B6	$7,867.00	56
CVW2V3B6	$1,454.00	56
CVW30V2B6	$4,551.00	56
CVW30V3B6	$8,290.00	56
CVW3V2B6	$1,206.00	56
CVW3V3B6	$2,138.00	56
CVW40V2B6	$5,747.00	56
CVW40V3B6	$10,422.00	56
CVW50V2B6	$6,661.00	56
CVW50V3B6	$12,111.00	56
CVW5V2B6	$1,254.00	56
CVW5V2B8	$1,254.00	56
CVW5V2H6	$1,254.00	56
CVW5V3B6	$2,224.00	56
CVW60V2B6	$8,855.00	56
CVW60V3B6	$16,229.00	56
CVW75V2B6	$10,227.00	56
CVW75V3B6	$18,766.00	56
CVW7V2B6	$1,691.00	56
CVW7V2B8	$1,691.00	56
CVW7V2H6	$1,691.00	56
CVW7V3B6	$3,049.00	56
CVWG5V2B6	$1,579.00	55
CVWG7V2B6	$2,016.00	55
CVWG10V2B6	$2,301.00	55
CVWG15V2B6	$3,164.00	55
CVWG20V2B6	$3,545.00	55
CVWG25V2B6	$4,687.00	55
CVWG30V2B6	$4,916.00	55
CVWG40V2B6	$6,125.00	55
CVWG50V2B6	$7,039.00	55
CVWG60V2B6	$9,275.00	55
CVWG75V2B6	$10,647.00	55
CW2V2E2	$698.00	57
CW2V3E2	$1,290.00	57
CW3V2E2	$1,050.00	57
CW3V2G2	$1,050.00	57
CW3V2H2	$1,050.00	57
CW3V3E2	$1,942.00	57
CW5V2E2	$1,095.00	57
CW5V2G2	$1,095.00	57
CW5V2H2	$1,095.00	57
CW5V3E2	$2,026.00	57
CW7V2E2	$1,509.00	57
CW7V2G2	$1,509.00	57
CW7V2H2	$1,509.00	57
CW7V3E2	$2,791.00	57
CW10V2E2	$1,786.00	57
CW10V2G2	$1,786.00	57
CW10V2H2	$1,786.00	57
CW10V3E2	$3,304.00	57
CW15V2E2	$2,563.00	57
CW15V2G2	$2,563.00	57
CW15V2H2	$2,563.00	57
CW20V2E2	$2,932.00	57
CW20V2G2	$2,932.00	57
CW20V2H2	$2,932.00	57
CW25V2E2	$3,981.00	57
CW25V2G2	$3,981.00	57
CW25V2H2	$3,981.00	57
CW30V2E2	$4,203.00	57
CW30V2G2	$4,203.00	57
CW40V2E2	$5,307.00	57
CW40V2G2	$5,307.00	57
CW50V2E2	$6,193.00	57
CW50V2G2	$6,193.00	57
CW60V2E2	$8,297.00	57
CW60V2G2	$8,297.00	57
CW75V2E2	$9,628.00	57
CWG10V2E2	$2,111.00	55
CWG15V2E2	$2,913.00	55
CWG20V2E2	$3,282.00	55
CWG25V2E2	$4,346.00	55
CWG30V2E2	$4,568.00	55
CWG3V2E2	$1,375.00	55
CWG40V2E2	$5,685.00	55
CWG50V2E2	$6,571.00	55
CWG5V2E2	$1,420.00	55
CWG60V2E2	$8,717.00	55
CWG7V2E2	$1,834.00	55
D100P1ES	$6,500.00	44
D100P1GS	$6,500.00	44
D100P2E	$6,571.00	44
D100P2ES	$6,571.00	44
D100P2FS	$6,571.00	44
D100P2G	$6,571.00	44
D100P2GS	$6,571.00	44
D100P3E	$10,274.00	44
D100P3G	$10,274.00	44
D100P4E	$16,450.00	44
D100V1BS	$7,282.00	110
D100V1GS	$7,282.00	110
D100V2B	$7,360.00	110
D100V2G	$7,360.00	110
D100V3C	$11,507.00	110
D100V3G	$11,507.00	110
D10C1K21	$2,287.00	130
D10C2K21	$1,794.00	130
D10P1D	$1,029.00	41
D10P1DC	$1,101.00	47,85,193
D10P1G	$1,029.00	41
D10P1H	$1,029.00	41
D10P2D	$1,043.00	41
D10P2DC	$1,116.00	47,85,193
D10P2G	$1,043.00	41
D10P2H	$1,043.00	41
D10P3D	$1,851.00	41
D10P3G	$1,851.00	41
D10P3H	$1,851.00	41
D10P4E	$3,266.00	41
D10V1B	$1,214.00	108
D10V1G	$1,214.00	108
D10V2B	$1,231.00	108
D10V2G	$1,231.00	108
D10V3B	$2,184.00	108
D10V3G	$2,184.00	108
D125P1FS	$8,706.00	44
D125P1GS	$8,706.00	44
D125P2F	$8,743.00	44
D125P2FS	$8,743.00	44
D125P2G	$8,743.00	44
D125P2GS	$8,743.00	44
D125P3F	$11,097.00	44
D125P3G	$11,097.00	44

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D125V1CS	$9,490.00	110
D125V1GS	$9,490.00	110
D125V2C	$9,530.00	110
D125V2G	$9,530.00	110
D125V3C	$11,097.00	110
D125V3G	$11,097.00	110
D12ARM2N	$555.00	249
D12ARM2N9	$587.00	249
D12B2N4	$234.00	127
D12B2N49	$269.00	127
D12B2NA9	$241.00	127
D12B2NZA9	$222.00	127
D12BM2N	$284.00	127
D12CP1P49	$227.00	128
D12CP2P	$478.00	129
D12CP2P4	$470.00	129
D12CP2P49	$283.00	128
D12CP2PC	$567.00	88,132
D12CP2PCR	$497.00	88,132,196
D12CP2PH9	$360.00	128
D12CP3PH	$606.00	129
D12CP3PH9	$590.00	128
D12CPA2P	$486.00	129
D12CPA2P4	$583.00	129
D12CPA2P49	$330.00	128
D12CPA2PCR	$570.00	88,132,196
D12CPA2PH9	$378.00	128
D12CPA3PH9	$685.00	128
D12CPM2P	$507.00	129
D12P2ACR	$342.00	47,85
D12P2AH	$322.00	40
D12P2AH9	$373.00	46
D12P2D	$322.00	40
D12P2GH	$322.00	40
D12P3AH	$511.00	40
D13ARM2N9	$524.00	249
D13B10N49	$229.00	127
D13B2K4A9	$167.00	127
D13B2N4A	$146.00	127
D13B2N4A9	$152.00	127
D13B2N4Z	$122.00	127
D13B2N4Z9	$207.00	127
D13B2NZA9	$172.00	127
D13B3P9	$379.00	127
D13BA2N4A	$195.00	127
D13C4P9	$816.00	128
D13CA1J9	$281.00	128
D13CP2P	$402.00	129
D13CP2P4	$395.00	129
D13CP2P49	$346.00	128
D13CP2PCR	$423.00	88,132,196
D13CP2Z49	$312.00	128
D13CP3PH9	$507.00	128
D13CPA1P4	$333.00	129
D13CPA2P49	$378.00	128
D13CPA2P9	$370.00	128
D13CPA2Z4	$523.00	129
D13CPA3P9	$525.00	128
D13CPM2P	$426.00	129
D13CPM3P9	$515.00	128
D13P1GCR	$305.00	47,85
D13P2ACR	$299.00	47,85
D13P2AH	$282.00	40
D13P2AH9	$365.00	46
D13P2GCR	$299.00	47,85
D13P2GH	$282.00	40
D14B2N49	$143.00	127
D14B2N4Z	$119.00	127
D14B2NZA9	$172.00	127
D14B3N9	$326.00	127
D14B3NCR	$326.00	88,132,196
D14CP2P4	$335.00	129
D14CP2P9	$285.00	128
D14CPA2P4	$403.00	129
D14CPA2P49	$341.00	128
D14CPA2P9	$333.00	128
D14CPA3P9	$472.00	128
D14CPM3P9	$457.00	128
D14P2ACR	$281.00	47,85
D14P2AH	$275.00	40
D14P2B4	$265.00	40
D14P2GH	$275.00	40
D14P3A	$397.00	40
D150P1FS	$10,743.00	44
D150P1GS	$10,743.00	44
D150P2F	$11,431.00	44
D150P2FS	$11,431.00	44
D150P2G	$11,431.00	44
D150P3F	$14,949.00	44
D150P3G	$14,949.00	44
D150V1BS	$11,710.00	110
D150V1GS	$11,710.00	110
D150V2C	$12,460.00	110
D150V2G	$12,460.00	110
D150V3C	$16,294.00	110
D150V3G	$16,294.00	110
D15P1D	$1,414.00	42
D15P1DC	$1,513.00	47,85,193
D15P1G	$1,414.00	42
D15P1H	$1,414.00	42
D15P2D	$1,426.00	42
D15P2EC	$1,526.00	47,85,193
D15P2G	$1,426.00	42
D15P2H	$1,426.00	42
D15P3D	$2,363.00	42
D15P3E	$2,363.00	42
D15P3G	$2,363.00	42
D15P3H	$2,363.00	42
D15P4D	$4,292.00	42
D15V1B	$1,669.00	109
D15V1G	$1,669.00	109
D15V2B	$1,767.00	109
D15V2G	$1,767.00	109
D15V3B	$2,788.00	109
D15V3G	$2,788.00	109
D16B2N4Z9	$169.00	127
D16B3N4Z9	$274.00	127
D1C2J14	$476.00	129
D1C2J14C	$636.00	88,132
D1C2P18Z	$843.00	129
D1CA2J14	$515.00	129
D1CM2J14	$538.00	129
D1CP1PH	$533.00	129
D1CP1PH9	$475.00	128
D1CP1PHC	$516.00	88,132
D1CP2PCR	$662.00	88,132,196
D1CP2PH	$661.00	129
D1CP2PH9	$486.00	128
D1CP2PHC	$795.00	88,132
D1CP3PH	$816.00	129
D1CPA1PCR	$560.00	88,132,196
D1CPA1PH9	$480.00	128
D1CPA2JH9	$644.00	128
D1CPA2P9	$644.00	128
D1CPA2PH	$671.00	129
D1CPA2PH9	$644.00	128,249
D1CPA3PH9	$878.00	128
D1CPM1PH	$560.00	181,129
D1CPM2PH	$672.00	129
D1P1A	$400.00	40
D1P2AH	$405.00	40
D1P2AHC	$433.00	47,85,192
D1P2D	$443.00	40
D1P2DC	$474.00	47,85,192
D1P2DH9	$453.00	46
D1P2DHZ	$443.00	40
D1P2G	$443.00	40
D1P2GH	$405.00	40
D1P2H	$443.00	40
D1P3D	$595.00	40
D1P3G	$595.00	40
D1P3H	$595.00	40
D1P4E	$686.00	40
D1V2B	$525.00	108
D1V2G	$525.00	108
D1V3B	$702.00	108
D1V3G	$702.00	108
D200P1FS	$13,917.00	44
D200P1GS	$13,917.00	44
D200P2F	$14,286.00	44
D200P2FS	$14,286.00	44
D200P2G	$14,286.00	44
D200P3F	$19,649.00	44
D200P3G	$19,649.00	44
D200V1CS	$13,917.00	110
D200V1GS	$13,917.00	110
D200V2C	$15,572.00	110
D200V2G	$15,572.00	110
D200V3C	$19,649.00	110
D200V3G	$19,649.00	110
D20P1D	$1,711.00	42
D20P1EC	$1,831.00	47,85,193
D20P1G	$1,711.00	42
D20P1H	$1,711.00	42
D20P2D	$1,829.00	42
D20P2EC	$1,957.00	47,85,193
D20P2G	$1,829.00	42
D20P2H	$1,829.00	42
D20P3D	$2,880.00	42
D20P3G	$2,880.00	42
D20P3H	$2,880.00	42
D20V1B	$2,019.00	109
D20V1G	$2,019.00	109
D20V2B	$2,266.00	109
D20V2G	$2,266.00	109
D20V3B	$3,398.00	109
D20V3G	$3,398.00	109
D250P1FS	$18,343.00	44
D250P1GS	$18,343.00	44
D250P2FF	$16,151.00	44
D250P2FFS	$16,151.00	44
D250P2GF	$16,151.00	44
D250V1CS	$18,343.00	110
D250V1GS	$18,343.00	110
D250V2C	$17,605.00	110
D250V2G	$17,605.00	110
D25P1D	$2,237.00	42
D25P1EC	$2,394.00	47,85,193
D25P1G	$2,237.00	42
D25P1H	$2,237.00	42
D25P2D	$2,214.00	42
D25P2E	$2,214.00	42
D25P2EC	$2,446.00	47,85,193
D25P2ES	$2,214.00	42
D25P2G	$2,214.00	42
D25P2GS	$2,214.00	42
D25P2H	$2,214.00	42
D25P2HS	$2,214.00	42
D25P3D	$3,163.00	42
D25P3G	$3,163.00	42

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D25P3H	$3,163.00	42
D25P4E	$5,113.00	42
D25V1B	$2,640.00	109
D25V1G	$2,640.00	109
D25V2B	$2,744.00	109
D25V2G	$2,744.00	109
D25V3B	$3,732.00	109
D25V3G	$3,732.00	109
D2C1J14	$714.00	130
D2C2J14	$762.00	130
D2C2P18	$728.00	130
D2C2P21Z	$1,212.00	130
D2CA2J14	$792.00	130
D2CM2J14	$815.00	130
D2CP1PH	$775.00	130
D2CP2PCR	$990.00	88,132,197
D2CP2PH9	$765.00	128
D2CP2PHC	$977.00	88,132
D2CPA1PH9	$700.00	128
D2CPA2PH	$987.00	130
D2CPA2PH9	$995.00	128
D2CPM2PH	$1,018.00	130
D2P1ACR	$548.00	47,85
D2P1AH	$462.00	40
D2P1AHC	$494.00	47,85,192
D2P1D	$515.00	40
D2P1DC	$551.00	47,85,192
D2P1G	$515.00	40
D2P1H	$515.00	40
D2P2ACR	$545.00	47,85
D2P2AH	$415.00	40
D2P2B2	$512.00	40
D2P2D	$512.00	40
D2P2DC	$548.00	47,85,192
D2P2DHZ	$444.00	40
D2P2G	$512.00	41
D2P2GH	$484.00	41
D2P2H	$512.00	40
D2P3D	$672.00	41
D2P3G	$672.00	41
D2P3H	$672.00	41
D2P4E	$1,119.00	41
D2V1B	$608.00	108
D2V1G	$608.00	108
D2V2B	$604.00	108
D2V2G	$604.00	108
D2V3B	$793.00	108
D2V3G	$793.00	108
D300P1FFS	$25,362.00	45
D300P2F	$21,169.00	45
D300P2FS	$21,169.00	45
D300P2GS	$21,169.00	45
D30P1ES	$2,637.00	42
D30P1ESC	$2,861.00	47,85,193
D30P1GS	$2,637.00	42
D30P1HS	$2,637.00	42
D30P2D	$2,629.00	42
D30P2DC	$2,861.00	47,85,193
D30P2DS	$2,629.00	42
D30P2G	$2,629.00	42
D30P2GS	$2,629.00	42
D30P2H	$2,629.00	42
D30P2HS	$2,629.00	42
D30P3D	$3,629.00	42
D30P3G	$3,629.00	42
D30P3H	$3,629.00	42
D30V1BS	$3,033.00	109
D30V1GS	$3,033.00	109
D30V2B	$3,174.00	109
D30V2G	$3,174.00	109
D30V3B	$4,173.00	109
D30V3G	$4,173.00	109
D32C1J14	$474.00	129
D32C1JH	$474.00	129
D32C1JHC	$508.00	88,132
D32C2J14	$632.00	129
D32C2J149	$566.00	128
D32C2P18Z	$955.00	129
D32CM2J14	$630.00	129
D32CP2PCR	$693.00	88,132,197
D32CP2PH	$861.00	129
D32CP2PH9	$622.00	128
D32CP2PHC	$836.00	88,132
D32CPA1PH9	$637.00	128
D32CPA2PH	$876.00	129
D32CPA2PH9	$787.00	128
D32CPM1PH	$678.00	129
D32CPM2PH	$816.00	129
D32P1ACR	$502.00	47,85
D32P1AHC	$500.00	47,85,192
D32P1D	$472.00	40
D32P1G	$472.00	40
D32P1H	$472.00	40
D32P2ACR	$499.00	47,85
D32P2AH	$466.00	40
D32P2AH9	$473.00	46
D32P2B2	$466.00	40
D32P2D	$466.00	40
D32P2DC	$499.00	47,85,192
D32P2G	$466.00	40
D32P2GH	$466.00	40
D32P2H	$466.00	40
D32P3D	$600.00	40
D32P3G	$600.00	40
D32P3H	$600.00	40
D32PA1AH9	$622.00	46
D32V1B	$557.00	108
D32V1G	$557.00	108
D32V2B	$550.00	108
D32V2G	$550.00	108
D32V3B	$708.00	108
D32V3G	$708.00	108
D34ARM2NCR	$558.00	249
D34B2N9	$295.00	127
D34CA1JCR	$388.00	88,132,196
D34CP1PH	$398.00	129
D34CP2PCR	$610.00	88,132,196
D34CP2PH	$588.00	129
D34CP2PH9	$408.00	128
D34CP2PHC	$692.00	88,132
D34CP3PH	$746.00	129
D34CPA1PH9	$340.00	128
D34CPA2PCR	$690.00	88,132,196
D34CPA2PH	$602.00	129
D34CPA2PH9	$434.00	128
D34CPM1PCR	$516.00	88,132,196
D34CPM1PH	$495.00	129
D34CPM2PH	$637.00	129
D34P1B	$346.00	40
D34P2ACR	$381.00	47,85
D34P2AH	$359.00	40
D34P2AH9	$396.00	46
D34P2GH	$359.00	40
D34PA2AH	$489.00	40
D350P1FS	$29,028.00	45
D350P2F	$28,679.00	45
D3C1P18	$982.00	130
D3C2P18	$918.00	130
D3CPM1T	$888.00	130,181
D3P1D	$529.00	41
D3P1DC	$566.00	47,85,192
D3P1G	$529.00	41
D3P1H	$529.00	41
D3P2AHZ	$576.00	41
D3P2D	$544.00	41
D3P2DC	$582.00	47,85,192
D3P2G	$544.00	41
D3P2H	$544.00	41
D3P3D	$855.00	41
D3P3G	$855.00	41
D3P3H	$855.00	41
D3P4E	$1,435.00	41
D3PA2D	$794.00	41
D3V1B	$624.00	108
D3V1G	$624.00	108
D3V2B	$642.00	108
D3V2G	$642.00	108
D3V3B	$1,009.00	108
D3V3G	$1,009.00	108
D400P1FS	$34,056.00	45
D400P2F	$33,647.00	45
D40P1ES	$2,883.00	43
D40P1ESC	$3,115.00	47,85,193
D40P1GS	$2,883.00	43
D40P1HS	$2,883.00	43
D40P2D	$2,889.00	43
D40P2DC	$3,424.00	47,85,193
D40P2DS	$2,889.00	43
D40P2G	$2,889.00	43
D40P2GS	$2,889.00	43
D40P2H	$2,889.00	43
D40P2HS	$2,889.00	43
D40P3E	$5,786.00	43
D40P3G	$5,786.00	43
D40P4E	$7,020.00	43
D40V1BS	$3,315.00	109
D40V1GS	$3,315.00	109
D40V2B	$3,322.00	109
D40V2G	$3,322.00	109
D40V3B	$6,654.00	109
D40V3G	$6,654.00	109
D50P1DSC	$3,778.00	47,85,193
D50P1ES	$3,243.00	43
D50P1GS	$3,243.00	43
D50P1HS	$3,243.00	43
D50P2D	$3,386.00	43
D50P2DC	$3,921.00	47,85,193
D50P2DS	$3,386.00	43
D50P2FS	$3,386.00	43
D50P2G	$3,386.00	43
D50P2GS	$3,386.00	43
D50P2H	$3,386.00	43
D50P2HS	$3,386.00	43
D50P3E	$6,506.00	43
D50P3G	$6,506.00	43
D50P4E	$8,364.00	43
D50V1BS	$3,729.00	109
D50V1GS	$3,729.00	109
D50V2B	$3,894.00	109
D50V2G	$3,894.00	109
D50V3B	$7,492.00	109
D50V3G	$7,492.00	109
D5C1K18	$1,011.00	130
D5C2K	$909.00	181
D5C2K18	$1,389.00	130
D5C2K21	$1,394.00	130
D5C2K21Z	$2,028.00	130
D5CM1K14	$866.00	181
D5P1D	$564.00	41
D5P1DC	$603.00	47,85,192

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D5P1G	$564.00	41
D5P1H	$564.00	41
D5P2D	$586.00	41
D5P2DC	$627.00	47,85,192
D5P2G	$586.00	41
D5P2H	$586.00	41
D5P3D	$1,122.00	41
D5P3G	$1,122.00	41
D5P3H	$1,122.00	41
D5P4G	$2,271.00	41
D5PA2A	$836.00	41
D5V1B	$667.00	108
D5V1G	$667.00	108
D5V2B	$726.00	108
D5V2G	$726.00	108
D5V3B	$1,324.00	108
D5V3G	$1,324.00	108
D60P1ES	$4,469.00	43
D60P1GS	$4,469.00	43
D60P1HS	$4,469.00	43
D60P2E	$4,657.00	43
D60P2ES	$4,657.00	43
D60P2FS	$4,657.00	43
D60P2G	$4,657.00	43
D60P2GS	$4,657.00	43
D60P3E	$7,706.00	43
D60P3G	$7,706.00	43
D60P4E	$9,698.00	43
D60V1BS	$5,005.00	109
D60V1GS	$5,005.00	109
D60V2B	$5,216.00	109
D60V2G	$5,216.00	109
D60V3B	$8,631.00	109
D60V3G	$8,631.00	109
D75P1ES	$5,886.00	43
D75P1GS	$5,886.00	43
D75P2E	$5,514.00	43
D75P2ES	$5,514.00	43
D75P2FS	$5,514.00	43
D75P2G	$5,514.00	43
D75P2GS	$5,514.00	43
D75P3E	$8,674.00	43
D75P3G	$8,674.00	43
D75P4E	$11,665.00	43
D75V1BS	$6,592.00	109
D75V1GS	$6,592.00	109
D75V2B	$6,176.00	109
D75V2G	$6,176.00	109
D75V3B	$9,715.00	109
D75V3G	$9,715.00	109
D7C1K	$969.00	181
D7C1K18	$1,138.00	130
D7C1K21	$1,265.00	130
D7C2K21	$1,596.00	130
D7P1D	$880.00	41
D7P1DC	$942.00	47,85,193
D7P1G	$880.00	41
D7P1H	$880.00	41
D7P2D	$857.00	41
D7P2DC	$917.00	47,85,193
D7P2G	$857.00	41
D7P2H	$857.00	41
D7P3D	$1,423.00	41
D7P3G	$1,423.00	41
D7P3H	$1,423.00	41
D7P4D	$2,889.00	41
D7P4G	$2,889.00	41
D7PA2A	$1,207.00	41
D7V1B	$1,038.00	108
D7V1G	$1,038.00	108
D7V2B	$1,011.00	108
D7V2G	$1,011.00	108
D7V3B	$1,679.00	108
D7V3G	$1,679.00	108
DC48	$42.00	274
DC56	$42.00	274
DH100S2BF	$11,739.00	248
DH100S2GF	$12,126.00	248
DH125S2BF	$12,800.00	248
DH125S2GF	$13,188.00	248
DH15S1GF	$1,829.00	248
DH20S1GF	$2,067.00	248
DH20S2BF	$2,586.00	248
DH20S2GF	$2,844.00	248
DH20S2HF	$2,586.00	248
DH25S1GF	$2,488.00	248
DH25S2BF	$3,741.00	248
DH25S2GF	$4,051.00	248
DH25S2HF	$3,741.00	248
DH30S1GF	$2,808.00	248
DH30S2BF	$4,508.00	248
DH30S2GF	$4,870.00	248
DH30S2HF	$4,508.00	248
DH40S1GF	$3,004.00	248
DH40S2BF	$5,247.00	248
DH40S2GF	$5,518.00	248
DH40S2HF	$5,247.00	248
DH50S2BF	$6,482.00	248
DH50S2GF	$6,960.00	248
DH50S2HF	$6,482.00	248
DH60S2BF	$7,794.00	248
DH60S2GF	$8,207.00	248
DH60S2HF	$7,794.00	248
DH75S2BF	$9,587.00	248
DH75S2GF	$10,129.00	248
DJ10C1K21M	$1,601.00	210
DJ10C1K21P	$1,601.00	210
DJ10C2K21M	$1,476.00	210
DJ10C2K21P	$1,476.00	210
DJ10E1GM	$1,076.00	236,206
DJ10P1DJ	$1,132.00	208,237
DJ10P1DM	$1,132.00	236,206
DJ10P1DP	$1,132.00	207,237
DJ10P1DU	$1,420.00	236,206
DJ10P1GM	$1,132.00	236,206
DJ10P1HM	$1,132.00	236,206
DJ10P2DJ	$1,147.00	208,237
DJ10P2DM	$1,147.00	236,206
DJ10P2DP	$1,147.00	207,237
DJ10P2DU	$1,400.00	236,206
DJ10P2HM	$1,147.00	236,206
DJ10P3EP	$2,036.00	207,237
DJ15P1DJ	$1,555.00	208,237
DJ15P1DM	$1,555.00	236,206
DJ15P1DP	$1,555.00	207,237
DJ15P1DU	$1,809.00	236,206
DJ15P1HP	$1,555.00	207,237
DJ15P2EM	$1,712.00	236,206
DJ15P2EP	$1,569.00	207,237
DJ15P2EU	$2,055.00	236,206
DJ15P2HP	$1,569.00	207,237
DJ1P2DM	$487.00	205,235
DJ1P2DP	$487.00	207,237
DJ1P2DU	$570.00	236,206
DJ1P2HM	$487.00	205,235
DJ1P3DM	$655.00	205,235
DJ20E1GM	$1,611.00	236,206
DJ20P1EM	$1,874.00	236,206
DJ20P1EP	$1,882.00	207,237
DJ20P1EU	$2,249.00	236,206
DJ20P1GM	$1,874.00	236,206
DJ20P1HP	$1,882.00	207,237
DJ20P2EM	$1,970.00	236,206
DJ20P2EP	$2,012.00	207,237
DJ20P2HP	$2,012.00	207,237
DJ25E2GP	$2,406.00	207,237
DJ25P1EM	$2,567.00	236,206
DJ25P1EP	$2,461.00	207,237
DJ25P1HP	$2,461.00	207,237
DJ25P2DM	$2,435.00	236,206
DJ25P2GP	$2,435.00	207,237
DJ2C2P18M	$711.00	210
DJ2E1DM	$524.00	205,235
DJ2E2GM	$482.00	205,235
DJ2P1DM	$567.00	205,235
DJ2P2DM	$563.00	205,235
DJ2P2DP	$563.00	207,237
DJ2P2DU	$642.00	236,206
DJ2P2GM	$563.00	205,235
DJ2P2HM	$563.00	205,235
DJ2P3DM	$739.00	205,235
DJ30P1DM	$2,901.00	236,206
DJ30P1DP	$2,901.00	207,237
DJ30P2DM	$2,892.00	236,206
DJ30P2DP	$2,892.00	207,237
DJ32P1DM	$519.00	205,235
DJ32P2DM	$513.00	205,235
DJ32P2DP	$513.00	207,237
DJ32P2DU	$581.00	236,206
DJ32P2HM	$513.00	205,235
DJ32P3DM	$660.00	205,235
DJ34P3DM	$655.00	205,235
DJ3C1P18M	$786.00	210
DJ3C2P18M	$716.00	210
DJ3C2P18P	$716.00	210
DJ3P1DM	$582.00	205,235
DJ3P2DM	$598.00	205,235
DJ3P2DP	$598.00	207,237
DJ3P2DU	$758.00	236,206
DJ3P2HM	$598.00	205,235
DJ3P3DM	$941.00	205,235
DJ40E1GP	$3,512.00	207,237
DJ40P1DM	$3,171.00	236,206
DJ40P1DP	$3,171.00	207,237
DJ40P1GM	$3,171.00	236,206
DJ40P1GP	$3,171.00	207,237
DJ40P2DM	$3,178.00	236,206
DJ40P2DP	$3,178.00	207,237
DJ50P1DM	$3,567.00	236,206
DJ50P1DP	$3,567.00	207,237
DJ50P2DM	$3,725.00	236,206
DJ50P2DP	$3,725.00	207,237
DJ5C1K18M	$945.00	210
DJ5C1K18P	$945.00	210
DJ5C2K18M	$904.00	210
DJ5C2K21M	$1,087.00	210
DJ5E1HM	$718.00	205,235
DJ5P1DM	$620.00	205,235
DJ5P1HM	$620.00	205,235
DJ5P2DM	$645.00	205,235
DJ5P2DP	$645.00	207,237
DJ5P2DU	$898.00	236,206
DJ5P2GM	$645.00	205,235
DJ5P2HM	$645.00	205,235
DJ5P3DM	$1,234.00	205,235
DJ60P1DM	$4,916.00	236,206
DJ60P1DP	$4,915.00	207,237
DJ7C1K18M	$1,135.00	210
DJ7C1K21M	$1,364.00	210
DJ7C1K21P	$1,364.00	210

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DJ7P2DJ	$943.00	208,237
DJ7P2DM	$943.00	205,235
DJ7P2DP	$943.00	207,237
DJ7P2DU	$1,188.00	236,206
DJ7P2GM	$943.00	205,235
DJ7P2HM	$943.00	205,235
DJ7P3EP	$1,565.00	207,237
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E180	$303.00	125
E183	$328.00	125
E186PE	$428.00	125
E188PE	$454.00	125
E190PE	$472.00	125
E192PE	$720.00	125
E194PE	$820.00	125
E30S1BZ	$2,144.00	247
E40S1BZ	$2,415.00	247
E40S1GZ	$2,415.00	247
E40S1HZ	$2,415.00	247
E497PE	$1,140.00	125
E50S1BZ	$3,534.00	247
E50S1GZ	$3,534.00	247
E50S1HZ	$3,534.00	247
EB384	$899.00	181
EB973	$433.00	226
EB981	$449.00	224
EC01	$332.00	194
EC01B	$334.00	194
EC03	$358.00	194
EC0332	$208.00	196
EC0332B	$214.00	196
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EC04	$339.00	194
EC0502	$280.00	196
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EC06	$448.00	194
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EC09	$501.00	194
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EC1002	$404.00	196
EC1004B	$615.00	196
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EC13B	$780.00	195
EC1502	$490.00	197
EC16	$517.00	195
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EC2002	$618.00	197
EC2002B	$620.00	197
EC3002	$700.00	197
EE045	$402.00	192
EE155	$251.00	192
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EE2156	$470.00	190
EE254	$244.00	192
EE256	$341.00	189
EE283	$296.00	189
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EE446	$449.00	192
EE446-5	$449.00	192
EE446B	$454.00	192
EE506	$469.00	192
EE506-5	$479.00	192
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EE508	$444.00	192
EE511	$464.00	192
EE515	$309.00	189
EE515-5PE	$387.00	189
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EE516	$350.00	189
EE516-5	$350.00	189
EE516B	$365.00	189
EE586	$345.00	189
EE607	$541.00	192
EE607-5	$349.00	192
EE607B	$546.00	192
EE609	$537.00	192
EE612	$705.00	192
EE612B	$402.00	192
EE661	$390.00	190
EE661-5	$390.00	190
EE661B	$405.00	190
EE684	$357.00	189
EE694	$426.00	190
EE706	$465.00	190
EE706-5	$465.00	190
EE706B	$480.00	190
EE707	$512.00	190
EE707-5	$512.00	190
EE707B	$527.00	190
EE733	$710.00	192
EE733-5	$719.00	192
EE733B	$715.00	192
EE734	$780.00	192
EE734-5	$790.00	192
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EE736	$775.00	192
EE833B	$850.00	192
EE930	$352.00	192
EEQ500	$1,424.00	232
EEQ750	$2,449.00	232
EEQK1000	$1,468.00	232
EEQK1500	$1,635.00	232
EEQK500	$961.00	232
EEQK750	$1,109.00	232
EEQKT1000	$1,630.00	232
EEQKT1500	$1,815.00	232
EEQKT500	$1,067.00	232
EEQKT750	$1,363.00	232
EH281	$268.00	227
EH282	$294.00	227
EH450	$299.00	227
EH451	$326.00	227
EH491	$312.00	227
EH492	$343.00	227
EH513	$339.00	227
EH514	$370.00	227
EH616	$441.00	227
EH617	$477.00	227
EH635	$383.00	227
EH636	$486.00	227
EH637	$589.00	227
EH704	$482.00	227
EH705	$544.00	227
EH740	$602.00	227
EH741	$655.00	227
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EH995	$705.00	227
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EJM202B	$656.00	210
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ET3205	$299.00	228
ET3207	$336.00	228
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ET3215	$484.00	228
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EU01	$341.00	194
EU02	$349.00	194
EU03	$368.00	194
EU0332	$214.00	196
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EU0334	$280.00	196
EU04	$498.00	194
EU05	$458.00	194
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EU09	$655.00	195
EU1002	$409.00	196
EU1002B	$413.00	196
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EU11	$825.00	195
EU12	$894.00	195
EU1502	$494.00	197
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EU2002	$619.00	197
EU2002B	$626.00	197
EU3002	$705.00	197
EU3002B	$710.00	197
EUSN1102	$357.00	228
EUSN1152	$396.00	228
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EV115	$146.00	229
EV230	$139.00	229
EZ15S1BZ	$1,739.00	247
EZ15S1GZ	$1,739.00	247
EZ15S1HZ	$1,739.00	247
EZ20S1BZ	$1,780.00	247
EZ20S1GZ	$1,780.00	247
EZ20S1HZ	$1,780.00	247
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EZ30S1HZ	$2,144.00	247
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EZ40S1GZ	$2,415.00	247
EZ40S1HZ	$2,415.00	247
EZ50S1BZ	$3,534.00	247
EZ50S1GZ	$3,534.00	247
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FD12AM2P4ZRS	$487.00	187
FD12BA2P	$406.00	187
FD12BA2P9	$417.00	187
FD12CM2P	$324.00	182
FD12CM2PC	$375.00	182
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FD12CM2PZYR	$495.00	186
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FD12SA2D	$336.00	187
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FD13AA2P4Z9	$282.00	185
FD13BM2PZYR	$313.00	186
FD13CM2P	$278.00	182
FD13CM2PC	$370.00	182
FD13CM2PCR	$360.00	182
FD13SM2DZYR	$424.00	186
FD1AA4KCR	$551.00	185
FD1CA1PZ	$423.00	183
FD1CA2J	$552.00	187
FD1CA2J9	$566.00	187
FD1CM2P14	$684.00	182
FD1CM2PCR	$493.00	182
FD1CM2PHC	$503.00	182
FD1CM2PZ	$439.00	182
FD1CM2PZY	$652.00	186
FD1CPA2JH	$682.00	187
FD1EA2D	$415.00	187
FD1PM2DZYR	$549.00	186
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FD2CM2P18	$779.00	182
FD2CM2PHC	$704.00	182
FD2CM2PHZ	$639.00	182
FD32CA1P14	$582.00	183
FD32CA2P	$653.00	187
FD32CM2P14	$473.00	182
FD32CM2P14C	$515.00	182
FD32CM2PCR	$589.00	182
FD32CM2PH	$468.00	182
FD32CM2PHZY	$814.00	186
FD32CPA2P	$751.00	187
FD32CPM2PHC	$599.00	182
FD32EA2D	$453.00	187
FD32PM2DZYR	$633.00	186
FD34BA2P	$481.00	187
FD34CA1PZ	$356.00	183
FD34CM2P	$384.00	182
FD34CM2PC	$447.00	182
FD34CM2PCR	$437.00	182
FD34CM2PZY	$568.00	186
FD34CM2PZYR	$590.00	186
FD34SM2DZYR	$526.00	186
FD3CA1K14	$719.00	183
FD3CM2K18	$1,045.00	182
FD5CM1K18Z	$1,160.00	183
FD5CM2K18	$1,307.00	182
FD5CM2K21	$1,442.00	182
FD7CM1K18Z	$1,240.00	183
FD7CM2K21	$1,937.00	182
FDU10CM2K21	$2,511.00	180
FDU10CM2K21C	$2,887.00	180
FDU13CM2K21	$2,924.00	180
FDU2CM2P18Z	$823.00	180
FDU32CM2P14	$521.00	180
FDU3CM2K18	$1,101.00	180
FDU3CM2K18C	$1,262.00	180
FDU5CM2K18	$1,378.00	180
FDU5CM2K18C	$1,587.00	180
FDU5CM2K21Z	$1,524.00	180
FDU7CM2K21	$2,044.00	180
FDU7CM2K21C	$2,349.00	180
FDU7CM2K21Z	$2,044.00	180
FDU7CM2K21ZC	$2,349.00	180
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FF100E1EV	$10,828.00	214
FF100E1GS	$7,255.00	213
FF100E1GV	$10,828.00	214
FF100E1XS	$7,255.00	213
FF100E1XV	$10,828.00	214
FF100E1ZS	$7,255.00	213
FF100E2BS	$7,333.00	213
FF100E2GS	$7,333.00	213
FF100E2XS	$7,333.00	213
FF10E1DV	$1,432.00	214
FF10E1XV	$1,283.00	214
FF125E1CS	$9,717.00	213
FF125E1GS	$9,717.00	213
FF125E1ZS	$9,717.00	213
FF125E2CS	$9,758.00	213
FF125E2GS	$9,758.00	213
FF150E1CS	$11,990.00	213
FF150E1GS	$11,990.00	213
FF150E1ZS	$11,990.00	213
FF150E2FS	$12,757.00	213
FF150E2GS	$12,757.00	213
FF15E1DV	$1,682.00	214
FF15E1GV	$1,682.00	214
FF15E1XV	$1,682.00	214
FF200E1FS	$15,532.00	213
FF200E1GS	$15,532.00	213
FF200E1ZS	$15,532.00	213
FF200E2FS	$15,945.00	213
FF200E2GS	$15,945.00	213
FF20E1A	$1,724.00	212
FF20E1DV	$2,094.00	214
FF20E1GV	$2,094.00	214
FF20E1X	$1,724.00	212
FF20E1XV	$2,094.00	214
FF20E2A	$1,934.00	212
FF20E2X	$1,934.00	212
FF250E1FS	$20,473.00	213
FF250E1ZS	$20,473.00	213
FF250E2FFS	$18,025.00	213
FF250E2GFS	$18,025.00	213
FF25E1A	$2,252.00	212
FF25E1DV	$2,721.00	214
FF25E1GV	$2,721.00	214
FF25E1X	$2,252.00	212
FF25E1XV	$2,721.00	214
FF25E2ES	$2,341.00	212
FF25E2XS	$2,341.00	212
FF300E1FFS	$28,306.00	213
FF300E1ZS	$28,306.00	213
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FF30E1EV	$4,150.00	214
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FF30E1XV	$4,150.00	214
FF30E1ZS	$2,654.00	212
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FF30E2XS	$2,780.00	212
FF350E1ZS	$35,861.00	213
FF40E1ES	$2,902.00	212
FF40E1EV	$4,566.00	214
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FF40E2AS	$3,225.00	212
FF40E2GS	$3,225.00	212
FF40E2XS	$3,225.00	212
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FF50E1GS	$3,448.00	212
FF50E1GV	$6,278.00	214
FF50E1XS	$3,448.00	212
FF50E1XV	$6,278.00	214
FF50E1ZS	$3,448.00	212
FF50E2AS	$3,779.00	212
FF50E2GS	$3,779.00	212
FF60E1DS	$4,752.00	212
FF60E1DV	$7,219.00	214
FF60E1GS	$4,752.00	212
FF60E1GV	$7,219.00	214
FF60E1XS	$4,752.00	212
FF60E1XV	$7,219.00	214
FF60E1ZS	$4,752.00	212
FF60E2ES	$4,752.00	212
FF60E2GS	$5,197.00	212
FF60E2XS	$5,197.00	212
FF75E1ES	$6,255.00	213
FF75E1EV	$7,819.00	214
FF75E1GS	$6,255.00	213
FF75E1GV	$7,819.00	214
FF75E1XS	$6,255.00	213
FF75E1XV	$9,415.00	214
FF75E1ZS	$6,255.00	213
FF75E2ES	$6,154.00	213
FF75E2GS	$6,154.00	213
FF75E2XS	$6,154.00	213
FF7E1DV	$1,027.00	214
FF7E1XV	$1,027.00	214
G591	$487.00	125
G592	$524.00	125
G593	$550.00	125
G594	$625.00	125
G595	$634.00	125
G596	$650.00	125
GM753	-	145
H100T2B	$14,161.00	107
H100T3B	$20,898.00	107
H10T2B	$1,628.00	106
H10T2BC	$2,172.00	106
H10T3BC	$3,189.00	106
H125T2C	$17,628.00	107
H150T2C	$20,923.00	107
H15T2B	$2,248.00	106
H15T2BC	$2,449.00	106
H15T3B	$4,164.00	106
H200T2C	$23,452.00	107
H20T2B	$2,770.00	106
H20T2BC	$3,253.00	106
H20T3B	$5,044.00	106
H25T2B	$3,324.00	106
H25T3B	$6,001.00	106
H30T2B	$3,876.00	106
H30T3B	$7,081.00	106
H32V1BC	$660.00	104
H40T2B	$5,061.00	107
H40T3B	$9,538.00	107
H50T2B	$6,214.00	107

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H50T3B	$10,988.00	107
H5T2B	$985.00	106
H5T2BC	$1,086.00	106
H60T2B	$9,035.00	107
H60T3B	$12,945.00	107
H75T2B	$11,491.00	107
H75T3B	$15,263.00	107
H75V1BS	$11,411.00	105
H7T2B	$1,348.00	106
H7T2BC	$1,497.00	106
H7T3BC	$2,675.00	106
HD100P1ES	$9,720.00	23
HD100P1GS	$9,720.00	23
HD100P2E	$8,811.00	23
HD100P2EB	$8,811.00	23
HD100P2EC	$9,491.00	24
HD100P2ES	$8,811.00	23
HD100P2G	$8,811.00	23
HD100P2H	$8,811.00	23
HD100P2HS	$8,811.00	23
HD100P3E	$11,829.00	23
HD100P3EB	$11,829.00	23
HD100P3G	$11,829.00	23
HD100V1BS	$11,178.00	105
HD100V2B	$10,133.00	105
HD100V3C	$13,603.00	105
HD10P1E	$1,114.00	21
HD10P1EC	$1,269.00	24
HD10P1G	$1,114.00	21
HD10P1H	$1,114.00	21
HD10P2E	$1,142.00	21
HD10P2EC	$1,297.00	24
HD10P2G	$1,142.00	21
HD10P2H	$1,142.00	21
HD10P3E	$1,936.00	21
HD10P3EC	$2,111.00	24
HD10P3G	$1,936.00	21
HD10P4E	$2,883.00	21
HD10V1B	$1,281.00	105
HD10V2B	$1,313.00	105
HD10V3B	$2,226.00	105
HD125P1FS	$12,171.00	23
HD125P1GS	$12,171.00	23
HD125P2F	$11,431.00	23
HD125P2FB	$11,431.00	23
HD125P2FS	$11,431.00	23
HD125P2G	$11,431.00	23
HD125P3F	$14,691.00	23
HD125P3FB	$14,691.00	23
HD125P3G	$14,691.00	23
HD125V1CS	$13,997.00	105
HD125V2C	$13,146.00	105
HD125V3C	$16,895.00	105
HD150P1FS	$15,429.00	23
HD150P1GS	$15,429.00	23
HD150P2F	$13,766.00	23
HD150P2FB	$13,766.00	23
HD150P2FS	$13,766.00	23
HD150P2G	$13,766.00	23
HD150P3F	$16,800.00	23
HD150P3FB	$16,800.00	23
HD150P3G	$16,800.00	23
HD150P3GB	$17,304.00	23
HD150V1CS	$17,743.00	105
HD150V2C	$15,831.00	105
HD150V3C	$19,320.00	105
HD15P1E	$1,568.00	21
HD15P1EC	$1,743.00	24
HD15P1G	$1,568.00	21
HD15P1H	$1,568.00	21
HD15P2E	$1,528.00	21
HD15P2EC	$1,703.00	24
HD15P2G	$1,528.00	21
HD15P2H	$1,528.00	21
HD15P3E	$2,558.00	21
HD15P3EC	$2,858.00	24
HD15P3G	$2,558.00	21
HD15P4E	$3,773.00	21
HD15V1B	$1,803.00	105
HD15V2B	$1,757.00	105
HD15V3B	$2,941.00	105
HD1P2E	$461.00	20
HD1P2EC	$556.00	24
HD1P2G	$461.00	20
HD1P2H	$461.00	20
HD1P3E	$588.00	20
HD1P3EC	$683.00	24
HD1P3G	$588.00	20
HD1P3H	$588.00	20
HD1P4E	$840.00	20
HD1V2B	$530.00	104
HD1V2BC	$639.00	104
HD1V3B	$676.00	104
HD1V3BC	$785.00	104
HD200P1FS	$21,086.00	23
HD200P1GS	$21,719.00	23
HD200P2F	$17,829.00	23
HD200P2FB	$17,829.00	23
HD200P2FS	$17,829.00	23
HD200P2G	$19,320.00	23
HD200P2GS	$18,364.00	23
HD200V1CS	$24,249.00	105
HD200V2C	$20,503.00	105
HD20P1E	$1,944.00	21
HD20P1EC	$2,119.00	24
HD20P1G	$1,944.00	21
HD20P1H	$1,944.00	21
HD20P2E	$1,901.00	21
HD20P2EC	$2,076.00	24
HD20P2G	$1,901.00	21
HD20P2H	$1,901.00	21
HD20P3E	$3,144.00	21
HD20P3EC	$3,444.00	24
HD20P3G	$3,144.00	21
HD20P4E	$4,054.00	21
HD20V1B	$2,235.00	105
HD20V2B	$2,186.00	105
HD20V3B	$3,616.00	105
HD25P1E	$2,311.00	21
HD25P1ES	$2,311.00	21
HD25P1ESC	$2,611.00	24
HD25P1GS	$2,311.00	22
HD25P1HS	$2,311.00	21
HD25P2E	$2,236.00	22
HD25P2EC	$2,536.00	24
HD25P2ES	$2,236.00	22
HD25P2G	$2,236.00	22
HD25P2H	$2,236.00	22
HD25P3E	$4,017.00	22
HD25P3G	$4,017.00	22
HD25P4E	$5,269.00	22
HD25V1BS	$2,658.00	105
HD25V2B	$2,571.00	105
HD25V3B	$4,619.00	105
HD2P1E	$533.00	20
HD2P1EC	$628.00	24
HD2P1G	$533.00	20
HD2P1H	$533.00	20
HD2P2E	$541.00	20
HD2P2EC	$636.00	24
HD2P2G	$541.00	20
HD2P2H	$541.00	20
HD2P3E	$755.00	20
HD2P3EC	$885.00	24
HD2P3G	$755.00	20
HD2P3H	$755.00	20
HD2P4E	$1,045.00	20
HD2V1B	$613.00	104
HD2V1BC	$722.00	104
HD2V2B	$622.00	104
HD2V2BC	$731.00	104
HD2V3B	$868.00	104
HD2V3BC	$935.00	104
HD30P1E	$2,772.00	22
HD30P1ES	$2,772.00	22
HD30P1ESC	$3,072.00	24
HD30P1GS	$2,772.00	22
HD30P1HS	$2,772.00	22
HD30P2E	$2,655.00	22
HD30P2EC	$2,955.00	24
HD30P2ES	$2,655.00	22
HD30P2G	$2,655.00	22
HD30P2H	$2,655.00	22
HD30P3E	$4,569.00	22
HD30P3G	$4,569.00	22
HD30P4E	$5,891.00	22
HD30V1BS	$3,188.00	105
HD30V2B	$3,053.00	105
HD30V3B	$5,254.00	105
HD32P1E	$513.00	20
HD32P1EC	$608.00	24
HD32P1G	$513.00	20
HD32P1H	$513.00	20
HD32P2E	$492.00	20
HD32P2EC	$587.00	24
HD32P2G	$492.00	20
HD32P2H	$492.00	20
HD32P3E	$662.00	20
HD32P3EC	$792.00	24
HD32P3G	$662.00	20
HD32P3H	$662.00	20
HD32P4E	$1,025.00	20
HD32V1B	$590.00	104
HD32V1BC	$699.00	104
HD32V2B	$566.00	104
HD32V2BC	$675.00	104
HD32V3B	$761.00	104
HD32V3BC	$848.00	104
HD3P1E	$619.00	20
HD3P1EC	$749.00	24
HD3P1G	$619.00	20
HD3P1H	$619.00	20
HD3P2E	$590.00	20
HD3P2EC	$720.00	24
HD3P2G	$590.00	20
HD3P2H	$590.00	20
HD3P3E	$940.00	20
HD3P3EC	$1,095.00	24
HD3P3G	$940.00	20
HD3P3H	$940.00	20
HD3P4E	$1,457.00	20
HD3V1B	$712.00	104
HD3V1BC	$861.00	104
HD3V2B	$679.00	104
HD3V2BC	$828.00	104
HD3V3B	$1,081.00	104
HD3V3BC	$1,120.00	104
HD40P1ES	$3,268.00	22
HD40P1GS	$3,268.00	22
HD40P1HS	$3,268.00	22

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HD40P2EC	$3,569.00	24
HD40P2ES	$3,169.00	22
HD40P2G	$3,169.00	22
HD40P2H	$3,169.00	22
HD40P3E	$5,062.00	22
HD40P3G	$5,062.00	22
HD40P3H	$5,062.00	22
HD40P4E	$7,340.00	22
HD40V1BS	$3,758.00	105
HD40V2B	$3,644.00	105
HD40V3B	$5,821.00	105
HD50P1ES	$4,379.00	22
HD50P1GS	$4,379.00	22
HD50P1HS	$4,379.00	22
HD50P2E	$3,934.00	22
HD50P2EC	$4,334.00	24
HD50P2ES	$3,934.00	22
HD50P2G	$3,934.00	22
HD50P2H	$3,934.00	22
HD50P3E	$6,295.00	22
HD50P3G	$6,295.00	22
HD50P3H	$6,295.00	22
HD50V1BS	$5,036.00	105
HD50V2B	$4,524.00	105
HD50V3B	$7,239.00	105
HD5P1E	$734.00	21
HD5P1EC	$864.00	24
HD5P1G	$734.00	21
HD5P1H	$734.00	21
HD5P2E	$673.00	21
HD5P2EC	$803.00	24
HD5P2G	$673.00	21
HD5P2H	$673.00	21
HD5P3E	$1,213.00	21
HD5P3EC	$1,339.00	24
HD5P3G	$1,213.00	21
HD5P3H	$1,213.00	21
HD5P4E	$1,899.00	21
HD5V1B	$844.00	104
HD5V1BC	$994.00	104
HD5V2B	$774.00	104
HD5V2BC	$923.00	104
HD5V3B	$1,395.00	104
HD5V3BC	$1,540.00	104
HD60P1ES	$5,631.00	22
HD60P1GS	$5,631.00	22
HD60P1HS	$5,631.00	22
HD60P2E	$5,504.00	22
HD60P2EC	$6,124.00	24
HD60P2ES	$5,504.00	22
HD60P2G	$5,504.00	22
HD60P2H	$5,504.00	22
HD60P3E	$7,406.00	22
HD60P3G	$7,406.00	22
HD60V1BS	$6,476.00	105
HD60V2B	$6,330.00	105
HD60V3B	$8,517.00	105
HD75P1ES	$7,251.00	23
HD75P1GS	$7,251.00	23
HD75P1HS	$7,251.00	23
HD75P2E	$6,720.00	23
HD75P2EB	$6,720.00	23
HD75P2EC	$7,340.00	24
HD75P2ES	$6,720.00	23
HD75P2G	$6,720.00	23
HD75P2H	$6,720.00	23
HD75P3E	$8,811.00	23
HD75P3EB	$8,811.00	23
HD75P3G	$8,811.00	23
HD75V1BS	$8,339.00	105
HD75V2B	$7,728.00	105
HD75V3B	$10,133.00	105
HD7P1E	$955.00	21
HD7P1EC	$1,110.00	24
HD7P1G	$955.00	21
HD7P1H	$955.00	21
HD7P2E	$917.00	21
HD7P2EC	$1,071.00	24
HD7P2G	$917.00	21
HD7P2H	$917.00	21
HD7P3E	$1,629.00	21
HD7P3EC	$1,804.00	24
HD7P3G	$1,629.00	21
HD7P4E	$2,476.00	21
HD7V1B	$1,099.00	104
HD7V2B	$1,055.00	104
HD7V3B	$1,873.00	104
HJ25P1GM	$3,595.00	202
HJ25P2GM	$3,237.00	202
HJ25P2GP	$3,237.00	203,234
HJ30P1BM	$4,383.00	202
HJ30P1BP	$4,383.00	203,234
HJ30P1GM	$4,383.00	202
HN10T2BC	$2,628.00	100,106
HN10T3BC	$4,023.00	100,106
HN15T2BC	$3,193.00	106
HN3T2BC	$1,213.00	100,106
HN3T3BC	$2,151.00	100,106
HN5T2BC	$1,604.00	100,106
HN5T3BC	$2,821.00	100,106
HN7T2BC	$1,907.00	100,106
HN7T3BC	$3,428.00	100,106
HO100E2TLG	$16,294.00	255
HO125E2TLG	$22,627.00	255
HO150E2TLG	$26,046.00	255
HO200E2TLG	$32,802.00	255
HO300E2TLH	$54,422.00	255
HO350E2TLH	$57,861.00	255
HO350P2RGLHX	$56,095.00	255
HO50E2TLG	$9,282.00	255
HO60E2TLG	$10,823.00	255
HO75E2TLG	$14,170.00	255
HO100P1SLG	$15,284.00	252
HO100P2BLG	$14,376.00	252
HO100P2RLG	$15,814.00	255
HO100P2SLG	$14,376.00	252
HO100P2SLGX	$14,858.00	252
HO100V2GLG	$15,885.00	253
HO100V2SLG	$15,885.00	253
HO100V2SLGX	$16,418.00	253
HO10P2BLE	$4,187.00	252
HO10P3BLF	$5,592.00	252
HO125P2RLG	$19,546.00	255
HO125P2SLG	$17,769.00	252
HO125P2SLGX	$18,387.00	252
HO125V2GLG	$18,509.00	253
HO125V2SLG	$18,509.00	253
HO125V2SLGX	$19,153.00	253
HO150P2RLG	$25,251.00	255
HO150P2SLG	$22,955.00	252
HO150P2SLGX	$23,466.00	252
HO150P2SLH	$22,955.00	252
HO150V2GLG	$24,562.00	253
HO150V2SLG	$24,562.00	253
HO150V2SLGX	$25,109.00	253
HO15P2BLE	$4,686.00	252
HO15P2BLG	$4,686.00	252
HO15P3BLF	$6,548.00	252
HO15V2BLE	$5,226.00	253
HO15V2GLE	$5,226.00	253
HO200P2RLG	$31,851.00	255
HO200P2SLG	$28,995.00	252
HO200P2SLHX	$29,974.00	252
HO200V2GLG	$31,516.00	253
HO200V2SLH	$31,516.00	253
HO200V2SLHX	$32,580.00	253
HO20P1BLF	$4,708.00	252
HO20P2BLF	$5,122.00	252
HO20P2BLG	$5,122.00	252
HO20P3BLG	$7,307.00	252
HO20V2BLF	$5,728.00	253
HO20V2BLG	$5,728.00	253
HO20V2GLE	$5,728.00	253
HO250P2RGLH	$45,419.00	255
HO250P2SLHX	$37,811.00	252
HO250P2TLH	$51,127.00	255
HO250V2GLG	$39,399.00	253
HO250V2SLH	$39,399.00	253
HO250V2SLHX	$40,657.00	253
HO25P1BLF	$5,015.00	252
HO25P2BLF	$5,778.00	252
HO25P2BLG	$5,778.00	252
HO25P3BLG	$8,923.00	252
HO25V2BLF	$6,456.00	253
HO25V2BLG	$6,456.00	253
HO25V2GLE	$6,456.00	253
HO300P2RLHX	$48,289.00	255
HO300P2SLHX	$43,899.00	252
HO300V2GLG	$45,704.00	253
HO300V2SLH	$45,704.00	253
HO300V2SLHX	$47,203.00	253
HO30P1BLF	$5,369.00	252
HO30P2BLF	$6,277.00	252
HO30P2BLG	$6,277.00	252
HO30P3BLG	$9,916.00	252
HO30V2BLF	$7,024.00	253
HO30V2BLG	$7,024.00	253
HO30V2GLE	$7,024.00	253
HO350P2SLHX	$49,277.00	252
HO350V2GLG	$50,683.00	254
HO350V2SLH	$50,683.00	254
HO350V2SLHX	$52,422.00	254
HO400P2SLHX	$55,213.00	252
HO400V2GLJ	$57,514.00	254
HO400V2SLH	$57,514.00	254
HO400V2SLHX	$61,734.00	254
HO40P1BLF	$5,927.00	252
HO40P2BLF	$7,017.00	252
HO40P2BLG	$7,017.00	252
HO40P2SLG	$7,017.00	252
HO40P3BLGX	$12,880.00	252
HO40V2BLF	$7,779.00	253
HO40V2BLG	$7,779.00	253
HO40V2GLG	$7,779.00	253
HO450P2SLHX	$58,702.00	252
HO450V2SLH	$61,148.00	254
HO450V2SLHX	$65,638.00	254
HO500P2SFLHX	$62,906.00	252
HO500P2SLHX	$69,896.00	252
HO500V2SFLH	$66,218.00	254
HO500V2SFLHX	$71,060.00	254
HO500V2SLH	$73,575.00	254
HO500V2SLHX	$78,955.00	254
HO50P1BLF	$8,571.00	252
HO50P2BLF	$8,182.00	252
HO50P2BLG	$8,182.00	252
HO50P2RLG	$9,000.00	255
HO50P2SLG	$8,182.00	252
HO50P3BLGX	$15,609.00	252

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HO50V2GLG	$8,894.00	253
HO600P2SFLJX	$93,512.00	252
HO600S2SLJX	$84,730.00	252
HO600V2SFLJX	$99,481.00	254
HO60P1SLG	$9,841.00	252
HO60P2BLG	$9,528.00	252
HO60P2RLG	$10,480.00	255
HO60P2SLG	$9,528.00	252
HO60P3SLGX	$17,329.00	252
HO60V2GLG	$10,528.00	253
HO60V2SLG	$10,528.00	253
HO75P1SLG	$11,167.00	252
HO75P2BLG	$11,327.00	252
HO75P2RLG	$12,460.00	255
HO75P2SLG	$11,327.00	252
HO75P3SLGX	$19,641.00	252
HO75V2GLG	$12,312.00	253
HO75V2SLG	$12,312.00	253
HO7P2BLE	$3,789.00	252
HO7P3BLF	$4,983.00	252
HS3C2PLE	$4,568.00	251
HS5C1KLE	$4,779.00	251
HS5C2KLE	$5,789.00	251
HS7C1KLE	$6,817.00	251
HS7C2KLE	$7,831.00	251
HT100P2CLG	$22,580.00	256
HT10P1BLE	$4,137.00	256
HT10P2BLE	$4,052.00	256
HT125P2CLG	$31,411.00	256
HT150P2CLG	$37,074.00	256
HT15P1BLE	$4,650.00	256
HT15P2BLE	$5,650.00	256
HT200P2CLG	$49,499.00	256
HT20P2BLE	$6,290.00	256
HT250P2CLJX	$58,355.00	256
HT25P2BLF	$7,096.00	256
HT300P2CLJX	$64,200.00	256
HT30P2BLF	$7,819.00	256
HT40P2BLG	$9,902.00	256
HT50P2BLG	$11,426.00	256
HT5P1BLE	$3,666.00	256
HT5P2BLE	$3,443.00	256
HT60P2CLG	$14,172.00	256
HT75P2CLG	$16,778.00	256
HT7P1BLE	$3,807.00	256
HT7P2BLE	$3,731.00	256
JJ0502-2V	$199.00	245
JJ0752-2V	$212.00	245
JJ1002-2V	$238.00	245
JJ1502-2V	$301.00	245
JJ2002-2	$360.00	245
JS0502-2V	$199.00	245
JS0752-2V	$212.00	245
JS1002-2V	$238.00	245
JS1502-2V	$301.00	245
JS2002-2	$360.00	245
JTR2M1BFM	$958.00	116
JTR2M2BFM	$865.00	116
JTR3M1BNM	$1,115.00	116
JTR3M2BNM	$1,008.00	116
JTR5M1B	$1,350.00	116
KIT080CR014	$124.00	124
KIT090CR014	$124.00	124
LX7920	-	145
LX7921	-	145
LX7922	-	147
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LX7925	-	145
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LX7927	-	145
LX7928	-	145
LX7929	-	145
LX7930	-	160
LX7931	-	145
LX7932	-	145
MHD0075P1Y	$620.00	25
MHD0075P1Y3001L	$669.00	26
MHD0075P2Y	$557.00	25
MHD0075P2Y3001L	$634.00	26
MHD0075P3Y	$711.00	25
MHD011P1Y	$620.00	25
MHD011P1Y3001L	$689.00	26
MHD011P2Y	$595.00	25
MHD011P2Y3001L	$667.00	26
MHD011P3Y	$799.00	25
MHD015P1Y	$759.00	25
MHD015P1Y3001L	$710.00	26
MHD015P2Y	$653.00	25
MHD015P2Y3001L	$718.00	26
MHD015P3Y	$912.00	25
MHD022P1Y	$748.00	25
MHD022P1Y3001L	$840.00	26
MHD022P2Y	$713.00	25
MHD022P2Y3001L	$863.00	26
MHD022P3Y	$1,135.00	25
MHD03P1Y	$818.00	25
MHD03P1Y3001L	$1,037.00	26
MHD03P2Y	$764.00	25
MHD03P2Y3001L	$963.00	26
MHD03P3Y	$1,300.00	25
MHD04P1Y	$887.00	25
MHD04P1Y3001L	$1,303.00	26
MHD04P2Y	$813.00	25
MHD04P2Y3001L	$1,257.00	26
MHD04P3Y	$1,464.00	25
MHD055P1Y	$1,153.00	25
MHD055P1Y3001L	$1,393.00	26
MHD055P2Y	$1,107.00	25
MHD055P2Y3001L	$1,347.00	26
MHD055P3Y	$1,967.00	25
MHD075P1Y	$1,346.00	25
MHD075P1Y3001L	$1,586.00	26
MHD075P2Y	$1,379.00	25
MHD075P2Y3001L	$1,619.00	26
MHD075P3Y	$2,337.00	25
MHD11P1Y	$1,893.00	25
MHD11P1Y3001L	$2,171.00	26
MHD11P2Y	$1,845.00	25
MHD11P2Y3001L	$2,123.00	26
MHD11P3Y	$3,089.00	25
MHD15P1Y	$2,347.00	25
MHD15P1Y3001L	$2,625.00	26
MHD15P2Y	$2,295.00	25
MHD15P2Y3001L	$2,573.00	26
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MHD18P2Y	$2,700.00	25
MHD18P2Y3001L	$3,053.00	26
MHD18P3Y	$4,850.00	25
MHD22P1Y	$3,348.00	25
MHD22P1Y3001L	$3,626.00	26
MHD22P2Y	$3,206.00	25
MHD22P2Y3001L	$3,559.00	26
MHD22P3Y	$5,517.00	25
MHD30P1Y	$3,946.00	25
MHD30P1Y3001L	$4,344.00	26
MHD30P2Y	$3,826.00	25
MHD30P2Y3001L	$4,224.00	26
MHD30P3Y	$6,112.00	25
MHD37P1Y	$5,288.00	25
MHD37P1Y3001L	$5,686.00	26
MHD37P2Y	$4,751.00	25
MHD37P2Y3001L	$5,224.00	26
MHD37P3Y	$7,602.00	25
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MHD45P3Y	$8,942.00	25
MHD55P1Y	$8,756.00	25
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MHD55P2Y	$8,114.00	25
MHD55P2Y3001L	$8,707.00	26
MHD55P3Y	$10,640.00	25
MHD75P1T	$11,737.00	25
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MHD75P2T	$10,640.00	25
MHD75P2T3001L	$11,233.00	26
MHD90P1T	$14,058.00	25
MHD90P1T3001L	$15,290.00	26
MHD90P2T	$13,203.00	25
MHD90P2T3001L	$14,396.00	26
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NO100P2BG	$11,700.00	258
NO10P2BE	$3,448.00	258
NO125P2BG	$14,134.00	258
NO15P2BE	$3,966.00	258
NO20P2BE	$4,526.00	258
NO25P2BE	$4,851.00	258
NO30P2BE	$5,455.00	258
NO3P2BE	$1,716.00	258
NO40P2BG	$5,793.00	258
NO50P2BG	$6,873.00	258
NO5P2BE	$2,638.00	258
NO7P2BE	$3,070.00	258
NPHQ125	$750.00	218
NPHQ165	$793.00	218
NPHQ225	$839.00	218
NPHT125	$750.00	218
NPHT165	$793.00	218
NPHT225	$839.00	218
NPTA150	$908.00	219
NPTQ165	$933.00	217
NPTQ225	$987.00	217
NPTQ270	$1,099.00	217
NPTQ345	$1,255.00	217
NPTT165	$933.00	217
NPTT225	$987.00	217
NPTT270	$1,099.00	217
NPTT345	$1,255.00	217

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RST012RC004	$6.00	124
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S10P1AC	$1,142.00	13,191,69,72
S10P1ACR	$1,097.00	16,19,75,191
S10P1G	$1,142.00	4,9
S10P1GC	$1,078.00	13,191,69,72
S10P1GCR	$1,097.00	16,19,75,191
S10P2A	$1,115.00	4,9
S10P2AC	$1,176.00	13,191,69,72
S10P2ACR	$1,131.00	16,19,75,191
S10P2G	$1,115.00	4,9
S10P2GC	$1,176.00	13,191,69,72
S10P2GCR	$1,131.00	16,19,75,191
S10P3A	$1,674.00	9
S10P3G	$1,674.00	9
S2P3A	$732.00	3,9
S2P3G	$732.00	3,9
S32P3A	$645.00	3,8
S32P3G	$645.00	3,8
S3P1A	$605.00	3,9
S3P1G	$605.00	3,9
S3P2A	$605.00	3,9
S3P2AC	$637.00	13,190,72,68
S3P2ACR	$607.00	15,19,74,190
S3P2G	$605.00	3,9
S3P2GC	$637.00	13,190,72,68
S3P2GCR	$607.00	15,19,74,190
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S5P1G	$715.00	4,9
S5P1GC	$752.00	13,191,72,68
S5P1GCR	$722.00	15,19,74,191
S5P2A	$715.00	4,9
S5P2AC	$752.00	13,191,72,68
S5P2ACR	$722.00	15,19,74,191
S5P2G	$715.00	4,9
S5P2GC	$752.00	13,191,72,68
S5P2GCR	$722.00	15,19,74,191
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S5P3G	$1,155.00	4,9
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S7P1ACR	$951.00	15,19,74,191
S7P1G	$942.00	4,9
S7P1GC	$996.00	13,191,69,72
S7P1GCR	$951.00	15,19,74,191
S7P2A	$905.00	4,9
S7P2AC	$956.00	13,191,69,72
S7P2ACR	$911.00	15,19,74,191
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S7P2GC	$956.00	13,191,69,72
S7P2GCR	$911.00	15,19,74,191
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S7P3G	$1,395.00	9
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S15P1AC	$1,718.00	13,69,72
S15P1ACR	$1,658.00	16,19,75,191
S15P1G	$1,543.00	5,9
S15P1GC	$1,718.00	13,69,72
S15P1GCR	$1,658.00	16,19,75,191
S15P2A	$1,540.00	5,9
S15P2AC	$1,715.00	13,69,72
S15P2ACR	$1,655.00	16,19,75,191
S15P2G	$1,540.00	5,9
S15P2GC	$1,715.00	13,69,72
S15P2GCR	$1,655.00	16,19,75,191
S20P1A	$1,910.00	5,9
S20P1AC	$2,085.00	13,69,72
S20P1ACR	$2,025.00	16,19,75,191
S20P1G	$1,910.00	5,9
S20P1GC	$2,085.00	13,69,72
S20P1GCR	$2,025.00	16,19,75,191
S20P2A	$1,898.00	5,9
S20P2AC	$2,073.00	13,69,72
S20P2ACR	$2,013.00	16,19,75,191
S20P2G	$1,898.00	5,9
S20P2GC	$2,073.00	13,69,72
S20P2GCR	$2,013.00	16,19,75,191
SPH20FL1	$269.00	230
SPH20FL2CS	$317.00	230
SPH20FL2S	$339.00	230
SPH20FLC1	$257.00	230
SPH25FL1	$303.00	230
SPH25FL2S	$342.00	230
SPH30FL1	$330.00	230
SPH30FL2S	$374.00	230
SPL15FL2S	$303.00	230
SR10M1B	$1,687.00	114
SR10M1BC	$1,687.00	115
SR10M1BF	$1,687.00	114
SR10M1BFC	$1,687.00	115
SR15M1BFC	$2,414.00	115
SR15M1BF	$2,414.00	114
SR15M1BN	$2,414.00	114
SR15M1BNC	$2,414.00	115
SR2M1BC	$823.00	115
SR2M1BFC	$823.00	115
SR2M1B	$823.00	114
SR2M1BF	$823.00	114
SR2M2B	$731.00	114
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SR2M2BC	$731.00	115
SR2M2BFC	$731.00	115
SR3M1B	$926.00	114
SR3M1BC	$926.00	115
SR3M1BF	$926.00	114
SR3M1BFC	$926.00	115
SR3M1BK	$926.00	115
SR3M1BN	$926.00	114
SR3M1BNC	$926.00	115
SR3M2B	$819.00	114
SR3M2BC	$819.00	115
SR3M2BF	$819.00	114
SR3M2BFC	$819.00	115
SR3M2BK	$819.00	115
SR3M2BN	$819.00	114
SR3M2BNC	$819.00	115
SR5M1B	$926.00	114
SR5M1BC	$1,161.00	115
SR5M1BF	$926.00	114
SR5M1BFC	$1,161.00	115
SR5M1BK	$1,161.00	115
SR5M1BN	$926.00	114
SR5M1BNC	$1,161.00	115
SR7M1BF	$1,443.00	114
SR7M1BFC	$1,443.00	115
SR7M1BFK	$1,443.00	115
SR7M2B	$1,302.00	114
SR7M2BC	$1,302.00	115
SR7M2BF	$1,302.00	114
SR7M2BFC	$1,302.00	115
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SRJ10M1BM	$1,885.00	116
SRJ15M1BFM	$2,611.00	116
SRJ15M1BNM	$2,611.00	116
SRJ2M1BM	$958.00	116
SRJ2M2BM	$865.00	116
SRJ3M1BFM	$1,115.00	116
SRJ3M1BM	$1,115.00	116
SRJ3M2BM	$1,008.00	116
SRJ3M2BFM	$1,008.00	116
SRJ5M1BFM	$1,350.00	116
SRJ5M1BM	$1,350.00	116
SRJ7M1BFM	$1,640.00	116
SRJ7M2BFM	$1,499.00	116
SRJ7M2BM	$1,499.00	116
T12B10N	$493.00	131
T12C2J	$422.00	133
T12C2J4	$415.00	133
T12C2JC	$482.00	86,135,194
T12C2JCR	$439.00	87,136,194
T12C2ZCR	$592.00	87,136,194
T12C3J	$742.00	133
T12C3JCR	$828.00	87,136,194
T12CA1JCR	$358.00	87,136,194
T12CA2J	$465.00	133
T12CA2JCR	$496.00	87,136,194
T12CM1J	$324.00	133
T12CM2J	$474.00	133
T12CM2JCR	$462.00	87,136,194
T12S1A	$278.00	2,8
T12S1ACR	$291.00	14,18,73,189
T12S1D4	$278.00	2,8
T12S2A	$278.00	2,8
T12S2G	$278.00	2,8
T12S3A	$357.00	2,8
T12S3G	$357.00	2,8
T13B1N4	$236.00	131
T13C1J4	$264.00	133
T13C2J	$362.00	133
T13C2JC	$380.00	86,135,194
T13C2JCR	$380.00	87,136,194
T13C2P42ZCR	$394.00	87,136,194
T13C3J	$523.00	133
T13CA2JCR	$380.00	87,136,194
T13CM2J	$386.00	133
T13S1ACR	$279.00	14,18,73,189
T13S2A	$255.00	2,8
T13S2D42ZCR	$266.00	14,18,73,189
T13S2GCR	$266.00	14,18,73,189
T13S3DCR	$346.00	14,18,73,189
T14B2N49	$222.00	131
T14B3P9	$360.00	131
T14C2JC	$390.00	86,135,194
T14C2JCR	$330.00	87,136,194
T14C2P4ZS	$355.00	133
T14C3J	$541.00	133
T14C3JCR	$314.00	86,136,194
T14CM2J4	$397.00	133
T14S2A	$224.00	2,8
T14S3A	$294.00	2,8
T14S3DCR	$308.00	14,18,73,189
T16B2N49	$226.00	131
T1C1J	$455.00	133
T1C1JC	$489.00	86,135,194
T1C2J14	$576.00	133
T1C2J14C	$621.00	86,135,194
T1C2J14CR	$638.00	87,136,194
T1C2JCR	$571.00	87,136,195
T1C2JH	$554.00	133
T1C2JHC	$621.00	86,135,194
T1C2Z	$641.00	133
T1C3JCR	$1,011.00	87,136,195

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T1CA1JCR	$524.00	87,136,194
T1CA2J14	$614.00	133
T1CA2J14CR	$677.00	87,136,194
T1CA2JCR	$610.00	87,136,195
T1CA2JH	$591.00	133
T1CA2ZC	$730.00	86,135,194
T1CM1J	$473.00	133
T1CM2J14	$630.00	133
T1CM2J14CR	$700.00	87,136,194
T1CM2JH	$577.00	133
T1CM2ZC	$760.00	86,135,194
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T1P2AH	$396.00	2,8
T1P2AHZ	$423.00	2,8
T1P2GH	$396.00	2,8
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T2C1J14C	$778.00	86,135,195
T2C1J14CR	$813.00	87,136,195
T2C1JH	$744.00	134
T2C2J14	$838.00	134
T2C2J14C	$846.00	86,135,195
T2C2J14CR	$969.00	87,136,195
T2C2JCR	$739.00	87,136,195
T2C2JH	$838.00	134
T2C2JHC	$846.00	86,135,195
T2C2P18	$818.00	134
T2C2P21Z	$1,336.00	134
T2CA2J14	$877.00	134
T2CA2J14CR	$1,008.00	87,136,195
T2CA2JCR	$778.00	87,136,195
T2CA2JH	$877.00	134
T2CM1J14	$813.00	134
T2CM1JH	$813.00	134
T2CM2J14	$901.00	134
T2CM2JCR	$801.00	87,136,195
T2CM2JH	$901.00	134
T2P1ACR	$529.00	15,19,74,190
T2P1AH	$520.00	3,9
T2P2AH	$461.00	3,9
T2P2AHZ	$514.00	3,9
T32C1J14	$568.00	133
T32C1J14CR	$637.00	87,136,195
T32C1JH	$568.00	133
T32C1JHC	$603.00	86,135,195
T32C2J14	$580.00	133
T32C2J14C	$731.00	86,135,195
T32C2J14CR	$723.00	87,136,195
T32C2JCR	$650.00	87,136,195
T32C2JH	$633.00	133
T32C2JHC	$736.00	86,135,195
T32C2P18Z	$1,083.00	133
T32CA1JCR	$637.00	87,136,195
T32CA2J14	$619.00	133
T32CA2JCR	$689.00	87,136,195
T32CA2JH	$646.00	133
T32CM1JH	$637.00	133
T32CM2JCR	$712.00	87,136,195
T32CM2JH	$650.00	133
T32P1ACR	$485.00	14,18,73,190
T32P1AH	$438.00	3,8
T32P2AH	$421.00	3,8
T32V2BFC	$607.00	103
T34C1J	$345.00	133
T34C1JC	$417.00	86,135,194
T34C2J	$512.00	133
T34C2JC	$585.00	86,135,194
T34C2JCR	$527.00	87,136,194
T34C2Z	$556.00	133
T34C2ZCR	$699.00	87,136,194
T34C3JCR	$932.00	87,136,194
T34C3JH	$932.00	133
T34CA1J	$425.00	133
T34CA1JCR	$451.00	87,136,194
T34CA2J	$521.00	133
T34CA2JCR	$582.00	87,136,194
T34CM1J	$408.00	133
T34CM2J	$535.00	133
T34CM2JCR	$551.00	87,136,194
T34S1A	$290.00	2,8
T34S2A	$299.00	2,8
T34S2G	$299.00	2,8
T34S3AH	$422.00	2,8
T34S3B14	$422.00	2,8
T3C1P18	$1,008.00	134
T3C2P18	$954.00	134
T3P1ACR	$583.00	15,19,74,190
T5C1K18	$1,363.00	134
T5C1K18C	$1,397.00	86,135,195
T5C2K21	$1,139.00	134
T5C2K21Z	$2,301.00	134
T7C1K21	$1,789.00	134
T7C2K21	$1,815.00	134
TEQ125	$314.00	221
TEQ165	$341.00	221
TEQ225	$435.00	221
TEQ270	$522.00	221
TEQ345	$659.00	221
TET125	$305.00	221
TET165	$330.00	221
TET225	$424.00	221
TET275	$505.00	221
TET345	$640.00	221
TT507	$512.00	231
U10D10C	$3,207.00	10
U10L9C	$1,936.00	10
U10P1D	$1,397.00	4,7
U10P1DC	$1,511.00	11,191,69,70
U10P1DCR	$1,466.00	16,17,75,76
U10P1G	$1,397.00	4,7
U10P1GC	$1,511.00	11,191,69,70
U10P1H	$1,397.00	4,7
U10P2D	$1,302.00	4,7
U10P2DC	$1,416.00	11,191,69,70
U10P2DCR	$1,371.00	16,17,75,76
U10P2G	$1,302.00	4,7
U10P2GC	$1,416.00	11,191,69,70
U10P2GCR	$1,371.00	16,17,75,76
U10P2H	$1,302.00	4,7
U10P3D	$2,390.00	4,7
U10P3DC	$2,558.00	11,191,69,70
U10P3DCR	$2,498.00	16,17,75,76
U10P3G	$2,390.00	4,7
U10P3H	$2,390.00	4,7
U10R9C	$2,338.00	10
U10V1B	$1,607.00	103
U10V2B	$1,497.00	103
U10V1C3ID13	$2,867.00	118
U10V2C3ID13	$2,808.00	118
U10V1CC3ID13	$2,981.00	119
U10V2CC3ID13	$2,922.00	119
U12P1GC	$386.00	12,67,189,71
U12P2DCR	$378.00	14,18,73,189
U12P2GC	$397.00	12,67,189,71
U12P2GCR	$378.00	14,18,73,189
U12P3GC	$495.00	12,67,189,71
U12S1AC	$306.00	12,67,71
U12S2AC	$306.00	12,67,71
U12S2ACR	$291.00	14,18,73,189
U12S3AC	$393.00	12,67,71
U12S3ACR	$378.00	14,18,73,189
U12T2BCR	$463.00	103
U13P2GC	$365.00	12,67,189,71
U13P3GC	$455.00	12,67,189,71
U13S2AC	$281.00	12,67,71
U13S2ACR	$266.00	14,18,73,189
U13S3AC	$361.00	12,67,71
U13T2BCR	$420.00	103
U14P2GC	$319.00	12,67,189,71
U14P3GC	$407.00	12,67,189,71
U14S2AC	$246.00	12,67,71
U14S2DCR	$231.00	14,18,73,189
U14S3AC	$323.00	12,67,71
U15D10C	$4,210.00	10
U15L9C	$2,544.00	10
U15P1AF	$1,698.00	5,7
U15P1D	$1,999.00	5,7
U15P1DC	$2,174.00	11,191,69,70
U15P1DCR	$2,114.00	16,17,75,76
U15P1DFC	$1,812.00	11,191,69,70
U15P1DFCR	$1,767.00	16,17,75,76
U15P1G	$1,999.00	5,7
U15P1GC	$2,174.00	11,191,69,70
U15P1H	$1,999.00	5,7
U15P2D	$1,798.00	5,7
U15P2DC	$1,973.00	11,191,69,70
U15P2DCR	$1,913.00	16,17,75,76
U15P2G	$1,798.00	5,7
U15P2GCR	$1,913.00	16,17,75,76
U15P2H	$1,798.00	5,7
U15R9C	$3,068.00	10
U15V1B	$2,299.00	103
U15V2B	$2,068.00	103
U1L9C	$700.00	10
U1P1D	$404.00	2,8
U1P1DC	$503.00	12,67,189,71
U1P1DCR	$488.00	14,18,73,189
U1P1G	$404.00	2,8
U1P1GC	$503.00	12,67,189,71
U1P1GCR	$488.00	14,18,73,189
U1P2D	$423.00	2,8
U1P2DC	$503.00	12,67,189,71
U1P2DCR	$488.00	14,18,73,189
U1P2DFC	$440.00	12,67,189,71
U1P2DFCR	$425.00	14,18,73,189
U1P2G	$423.00	2,8
U1P2GC	$503.00	12,67,189,71
U1P2GCR	$488.00	14,18,73,189
U1P2GFC	$440.00	12,67,189,71
U1P2GFCR	$425.00	14,18,73,189
U1P2H	$423.00	2,8
U1P3D	$575.00	2,8
U1P3DC	$655.00	12,67,190,71
U1P3DF	$575.00	2,8
U1P3DFC	$655.00	12,67,190,71
U1P3G	$575.00	2,8
U1P3GC	$655.00	12,67,190,71
U1P3GFC	$655.00	12,67,190,71
U1P3GFCR	$655.00	14,18,73,190
U1P3GH	$575.00	2,8
U1P3H	$575.00	2,8
U1P4D	$1,049.00	2,6
U1R9C	$846.00	10
U1V1CC3ID11	$1,184.00	119
U1V1CCRID11	$1,169.00	120
U1V1CG3ID11	$1,105.00	118
U1V1KC3ID11	$1,149.00	119
U1V1KCRID11	$1,134.00	120
U1V1KG3ID11	$1,072.00	118

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U1V2B	$486.00	103
U1V2BC	$569.00	103
U1V2C3ID11	$1,082.00	118
U1V2CC3ID11	$1,161.00	119
U1V2CCRID11	$1,146.00	120
U1V2CFC3ID11	$1,161.00	119
U1V2CFCRID11	$1,146.00	120
U1V2K3ID11	$1,050.00	118
U1V2KC3ID11	$1,126.00	119
U1V2KCRID11	$1,111.00	120
U1V2KFC3ID11	$1,126.00	119
U1V2KFCRID11	$1,111.00	120
U1V3B	$661.00	103
U1V3BC	$740.00	103
U20L9C	$3,166.00	10
U20P1D	$2,475.00	5,7
U20P1DC	$2,650.00	11,191,69,70
U20P1DCR	$2,590.00	16,17,75,76
U20P1G	$2,475.00	5,7
U20P1GC	$2,650.00	11,191,69,70
U20P1H	$2,475.00	5,7
U20P2D	$2,216.00	5,7
U20P2DC	$2,391.00	11,191,69,70
U20P2DCR	$2,331.00	16,17,75,76
U20P2G	$2,216.00	5,7
U20P2H	$2,216.00	5,7
U20R9C	$3,820.00	10
U20V1B	$2,846.00	103
U20V2B	$2,548.00	103
U25L9C	$3,730.00	10
U25P1D	$3,036.00	5,7
U25P1DC	$3,268.00	11,191,69,70
U25P1DCR	$3,208.00	16,17,75,76
U25P1DS	$3,036.00	5,7
U25P1G	$3,036.00	5,7
U25P1GS	$3,036.00	5,7
U25P1H	$3,036.00	5,7
U25P1HS	$3,036.00	5,7
U25P2D	$2,659.00	5,7
U25P2DC	$2,890.00	11,191,69,70
U25P2DCR	$2,830.00	16,17,75,76
U25P2DS	$2,659.00	5,7
U25P2G	$2,659.00	5,7
U25P2GS	$2,659.00	5,7
U25P2H	$2,659.00	5,7
U25P2HS	$2,659.00	5,7
U2D10C	$1,403.00	10
U2L9C	$850.00	10
U2P1D	$525.00	3,9
U2P1DC	$604.00	13,190,72,68
U2P1DFC	$491.00	13,190,72,68
U2P1G	$525.00	3,9
U2P1GC	$604.00	13,190,72,68
U2P1GF	$470.00	3,9
U2P1GFC	$496.00	13,190,72,68
U2P1GFCR	$479.00	15,19,74,190
U2P1H	$525.00	3,9
U2P2D	$514.00	3,9
U2P2DC	$593.00	13,190,72,68
U2P2DCR	$578.00	15,19,74,190
U2P2DFC	$484.00	13,190,72,68
U2P2DFCR	$467.00	15,19,74,190
U2P2G	$514.00	3,9
U2P2GC	$593.00	13,190,72,68
U2P2GCR	$578.00	15,19,74,190
U2P2GFC	$484.00	13,190,72,68
U2P2GH	$514.00	3,9
U2P2GHZ	$514.00	3,9
U2P2H	$514.00	3,9
U2P3D	$836.00	3,6
U2P3DC	$930.00	11,190,70,68
U2P3DCR	$900.00	15,17,74,76
U2P3G	$836.00	3,6
U2P3GC	$930.00	11,190,70,68
U2P4D	$1,296.00	3,6
U2R9C	$1,026.00	10
U2V1B	$615.00	103
U2V1BC	$675.00	103
U2V1C3ID11	$1,338.00	118
U2V1CC3ID11	$1,417.00	119
U2V1CCRID11	$1,402.00	120
U2V1CFC3ID11	$1,417.00	119
U2V1CFCRID11	$1,402.00	120
U2V1K3ID12	$1,298.00	118
U2V1KC3ID12	$1,375.00	119
U2V1KCRID12	$1,360.00	120
U2V1KFC3ID12	$1,375.00	119
U2V1KFCRID12	$1,360.00	120
U2V2B	$591.00	103
U2V2BC	$656.00	103
U2V2C3ID11	$1,311.00	118
U2V2CC3ID11	$1,390.00	119
U2V2CCRID11	$1,375.00	120
U2V2CFC3ID11	$1,390.00	119
U2V2CFCRID11	$1,375.00	120
U2V2K3ID12	$1,271.00	118
U2V2KC3ID12	$1,348.00	119
U2V2KCRID12	$1,333.00	120
U2V2KFC3ID12	$1,348.00	119
U2V2KFCRID12	$1,333.00	120
U2V3B	$961.00	103
U2V3BC	$961.00	103
U30P2D	$3,101.00	5,7
U30P2DC	$3,333.00	11,191,69,70
U30P2DCR	$3,273.00	16,17,75,76
U30P2DS	$3,101.00	5,7
U30P2G	$3,101.00	5,7
U30P2H	$3,101.00	5,7
U32D10C	$1,273.00	10
U32L9C	$770.00	10
U32P1A14CR	$552.00	14,18,73,190
U32P1D	$488.00	3,8
U32P1DC	$567.00	13,190,72,68
U32P1DFC	$500.00	13,67,190,72
U32P1G	$488.00	3,8
U32P1GC	$567.00	13,190,72,68
U32P1GCR	$647.00	14,18,73,190
U32P1GFC	$567.00	13,190,72,68
U32P1GFCR	$647.00	14,18,73,190
U32P1GH	$488.00	3,8
U32P1H	$488.00	3,8
U32P2D	$469.00	3,8
U32P2DC	$549.00	13,190,72,68
U32P2DCR	$534.00	15,18,74,190
U32P2DFC	$442.00	13,190,72,68
U32P2DFCR	$426.00	15,18,74,190
U32P2G	$469.00	3,8
U32P2GC	$549.00	13,190,72,68
U32P2GCR	$534.00	15,18,74,190
U32P2GFC	$442.00	13,190,72,68
U32P2GFCR	$426.00	15,18,74,190
U32P2GH	$421.00	3,8
U32P2H	$469.00	3,8
U32P2HC	$549.00	13,190,72,68
U32P3D	$751.00	3,6
U32P3DC	$845.00	11,190,70,68
U32P3DCR	$815.00	15,17,74,76
U32P3G	$751.00	3,6
U32P3GC	$845.00	11,190,70,68
U32P3H	$751.00	3,6
U32P4D	$1,164.00	3,6
U32R9C	$928.00	10
U32V1B	$561.00	103
U32V1BC	$646.00	103
U32V2B	$539.00	103
U32V2BC	$623.00	103
U32V3B	$864.00	103
U32V3BC	$864.00	103
U34P1G	$376.00	2,8
U34P1GC	$402.00	12,67,189,71
U34P1GCR	$384.00	189
U34P2DCR	$408.00	14,18,73,189
U34P2GC	$427.00	12,67,189,71
U34P2GCR	$408.00	14,18,73,189
U34P3G14	$532.00	2,8
U34P3G14C	$585.00	12,67,189,71
U34P3GC	$585.00	12,67,189,71
U34P3GCR	$566.00	14,18,73,189
U34P3GH	$532.00	2,8
U34S1AC	$319.00	12,67,71
U34S1ACR	$304.00	14,18,73,189
U34S2AC	$329.00	12,67,71
U34S2ACR	$314.00	14,18,73,189
U34S3AC	$464.00	12,67,71
U34S3ACR	$449.00	14,18,73,189
U34S3DC	$464.00	12,67,71
U34T2BCR	$497.00	103
U3L9C	$884.00	10
U3P1A14CR	$575.00	15,19,74,190
U3P1AFC	$600.00	13,190,72,68
U3P1AHZ	$573.00	3,9
U3P1D	$767.00	3,6
U3P1DC	$860.00	11,190,70,68
U3P1DCR	$830.00	15,17,74,76
U3P1DF	$573.00	3,9
U3P1DFC	$568.00	13,190,72,68
U3P1DK	$860.00	11,190,70,68
U3P1DKR	$830.00	15,17,74,76
U3P1G	$767.00	3,6
U3P1G14C	$600.00	13,190,72,68
U3P1GC	$860.00	11,190,70,68
U3P1GCR	$568.00	15,19,74,190
U3P1GF	$573.00	3,9
U3P1GFC	$568.00	13,190,72,68
U3P1GFCR	$551.00	15,19,74,190
U3P1GHZ	$573.00	3,9
U3P1H	$767.00	3,6
U3P1HF	$573.00	3,9
U3P2D	$678.00	3,6
U3P2DC	$772.00	11,190,70,68
U3P2DCR	$742.00	15,17,74,76
U3P2DK	$772.00	11,190,70,68
U3P2DKR	$742.00	15,17,74,76
U3P2G	$678.00	3,6
U3P2GC	$772.00	11,190,70,68
U3P2GCR	$742.00	15,17,74,76
U3P2H	$678.00	3,6
U3P3D	$1,036.00	3,6
U3P3DC	$1,150.00	11,190,70,68
U3P3DCR	$1,105.00	15,17,74,76
U3P3G	$1,036.00	3,6
U3P3H	$1,036.00	3,6
U3P4D	$1,606.00	3,6
U3R9C	$1,065.00	10
U3V1B	$882.00	103
U3V1BC	$882.00	103
U3V1C3ID12	$1,751.00	118
U3V1CC3ID12	$1,845.00	119
U3V1K3ID12	$1,699.00	118
U3V1KC3ID13	$1,790.00	119

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U3V2BC	$780.00	103
U3V2C3ID12	$1,715.00	118
U3V2CC3ID12	$1,809.00	119
U3V2K3ID12	$1,664.00	118
U3V2KC3ID13	$1,755.00	119
U3V3B	$1,214.00	103
U3V3BC	$1,191.00	103
U5L9C	$1,234.00	10
U5P1D	$962.00	4,6
U5P1DC	$1,056.00	11,191,70,68
U5P1DCR	$1,026.00	15,17,74,76
U5P1DK	$1,056.00	11,191,70,68
U5P1DKR	$1,026.00	15,17,74,76
U5P1G	$962.00	4,6
U5P1GC	$1,056.00	11,191,70,68
U5P1H	$962.00	4,6
U5P2D	$788.00	4,6
U5P2DC	$882.00	11,191,70,68
U5P2DCR	$852.00	15,17,74,76
U5P2DK	$882.00	11,191,70,68
U5P2DKR	$852.00	15,17,74,76
U5P2G	$788.00	4,6
U5P2GC	$882.00	11,191,70,68
U5P2GCR	$852.00	15,17,74,76
U5P2H	$788.00	4,6
U5P2HK	$882.00	11,191,70,68
U5P3D	$1,483.00	4,6
U5P3DC	$1,597.00	11,191,70,68
U5P3DCR	$1,552.00	15,17,74,76
U5P3G	$1,483.00	4,6
U5P3GC	$1,597.00	11,191,70,68
U5P3H	$1,483.00	4,6
U5P4D	$2,299.00	4,6
U5R9C	$1,490.00	10
U5V1B	$1,106.00	103
U5V1BC	$1,106.00	103
U5V1C3ID12	$1,883.00	118
U5V1CC3ID12	$1,977.00	119
U5V1K3ID13	$1,827.00	118
U5V1KC3ID13	$1,918.00	119
U5V2B	$906.00	103
U5V2BC	$906.00	103
U5V2C3ID12	$1,844.00	118
U5V2CC3ID12	$1,938.00	119
U5V2K3ID13	$1,789.00	118
U5V2KC3ID13	$1,880.00	119
U5V3B	$1,669.00	103
U5V3BC	$1,705.00	103
U7D10C	$2,537.00	10
U7L9C	$1,532.00	10
U7P1AF	$1,074.00	4,6
U7P1D	$1,192.00	4,6
U7P1DC	$1,306.00	11,191,69,70
U7P1DCR	$1,147.00	15,17,74,76
U7P1G	$1,192.00	4,6
U7P1GC	$1,306.00	11,191,69,70
U7P1GF	$1,074.00	4,6
U7P1H	$1,192.00	4,6
U7P2D	$1,078.00	4,6
U7P2DC	$1,192.00	11,191,69,70
U7P2DCR	$1,147.00	15,17,74,76
U7P2G	$1,078.00	4,6
U7P2GC	$1,192.00	11,191,69,70
U7P2GCR	$1,147.00	15,17,74,76
U7P2H	$1,078.00	4,6
U7P3D	$1,979.00	4,6
U7P3DC	$2,147.00	11,191,69,70
U7P3DCR	$2,087.00	15,17,74,76
U7P3G	$1,979.00	4,7
U7P3GC	$2,147.00	11,191,69,70
U7P3H	$1,979.00	4,6
U7P4D	$3,067.00	4,7
U7R9C	$1,851.00	10
U7V1B	$1,371.00	103
U7V1C3ID13	$2,448.00	118
U7V1CC3ID13	$2,562.00	119
U7V2B	$1,240.00	103
U7V2C3ID13	$2,398.00	118
U7V2CC3ID13	$2,512.00	119
U7V3B	$2,276.00	103
UJ10C1K21M	$1,813.00	209
UJ10C1K21P	$1,813.00	209
UJ10C2K21M	$1,694.00	209
UJ10C2K21P	$1,694.00	209
UJ10P1DJ	$1,556.00	203,234
UJ10P1DM	$1,556.00	233,201
UJ10P1DP	$1,556.00	203,234
UJ10P1GM	$1,556.00	233,201
UJ10P2DJ	$1,458.00	203,234
UJ10P2DM	$1,458.00	233,201
UJ10P2DP	$1,458.00	203,234
UJ10P2GM	$1,458.00	233,201
UJ10P2GP	$1,458.00	203,234
UJ10V1CM3ID13	$3,022.00	119
UJ10V2CM3ID13	$2,963.00	119
UJ15P1DFJ	$1,801.00	203,234
UJ15P1DFM	$1,801.00	202
UJ15P1DFP	$1,801.00	203,234
UJ15P1DM	$2,239.00	202
UJ15P1DP	$2,239.00	203,234
UJ15P1GFM	$1,801.00	202
UJ15P1GM	$2,239.00	202
UJ15P2DM	$2,131.00	202
UJ15P2DP	$2,131.00	203,234
UJ15P2GM	$2,131.00	202
UJ15P2GP	$2,131.00	203,234
UJ1P1BM	$529.00	233,201
UJ1P1GM	$529.00	233,201
UJ1P2DM	$518.00	233,201
UJ1P2DP	$518.00	202
UJ1P2GM	$518.00	233,201
UJ1P2GP	$518.00	202
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UJ20P2DM	$2,463.00	202
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UJ20P2GP	$2,463.00	203,234
UJ25P1DFM	$3,235.00	202
UJ25P1DFP	$3,235.00	203,234
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UJ25P1DP	$3,595.00	203,234
UJ25P1GFM	$3,235.00	202
UJ25P2DM	$3,237.00	202
UJ25P2DP	$3,237.00	203,234
UJ2P1DM	$622.00	233,201
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UJ2P1GM	$622.00	233,201
UJ2P2DM	$611.00	233,201
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UJ2P2GM	$611.00	233,201
UJ2P2GP	$611.00	202
UJ30P2DM	$3,666.00	202
UJ30P2DP	$3,666.00	203,234
UJ32P1DM	$584.00	233,201
UJ32P1GM	$584.00	233,201
UJ32P2DM	$565.00	233,201
UJ32P2DP	$565.00	202
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UJ3C2P18M	$872.00	209
UJ3C2P18P	$872.00	209
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UJ3V1KM3ID13	$1,815.00	119
UJ3V2CM3ID12	$1,835.00	119
UJ3V2KM3ID13	$1,780.00	119
UJ5C1K18M	$1,259.00	209
UJ5C1K18P	$1,259.00	209
UJ5C2K21M	$1,181.00	209
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UJ5V1KM3ID13	$1,943.00	119
UJ5V2CM3ID12	$1,964.00	119
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UJ7V2CM3ID13	$2,553.00	119
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UN10T2GC	$1,888.00	99
UN10T3BC	$3,466.00	99
UN12T2BC	$611.00	99
UN12T2BC-HS35A	$1,911.00	99
UN12T2GC	$611.00	99
UN12V2AC	$444.00	103
UN12V3BC	$578.00	103
UN13T2BC	$528.00	99
UN14T2BC	$504.00	99
UN14T2BC-HS35A	$1,804.00	99
UN15T2BC	$2,607.00	99
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UN15T2GC	$2,607.00	99
UN1T2BC	$722.00	99
UN1T2BC-HS35A	$2,022.00	99
UN1T2BFC	$722.00	99

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UN2T2BC-HS35A	$2,177.00	99
UN2T2GC	$877.00	99
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UN32S4CKR	$2,344.00	185
UN32T2BC	$819.00	99
UN32T2BC-HS35A	$2,119.00	99
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UN34V2AC	$498.00	103
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UN3T2BC-HS35A	$2,283.00	99
UN3T2GC	$983.00	99
UN3T3BC	$1,502.00	99
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UN7T2BC	$1,563.00	99
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WD12S1AC	$521.00	81,176
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WD12S2AC	$600.00	81,176
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WD12S3AC	$768.00	81,176
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WD1P3A	$945.00	175
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WD2P2AHC	$991.00	81,176
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WD32C1JHC	$768.00	84,138,178
WD32C2JHC	$896.00	84,138,178
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WD34S2A	$600.00	175
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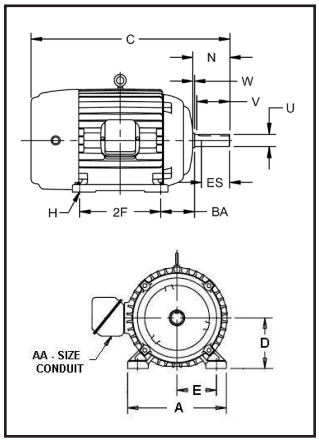
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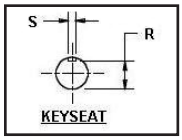
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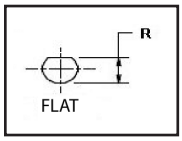
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WD3P2DC	$1,477.00	81,176
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WD5P1DC	$1,674.00	81,176
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WD7P1DC	$2,041.00	81,176
WD7P2D	$2,213.00	175
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WDP12S3DCR	$784.00	83,177
WDP1P2ACR	$1,160.00	83,177
WDP1P2DFCR	$1,102.00	83,177
WDP1S3DCR	$964.00	83,177
WDP2P2ACR	$1,490.00	83,177
WDP32P2DFCR	$1,152.00	83,177
WDP34S2ACR	$887.00	83,177
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XS12SA3A	$615.00	48,59
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XS2PA2AH	$886.00	48,59
XS32P2A14	$808.00	48,59
XS32P2ACR	$838.00	63,79
XS34CA1J	$608.00	65,137,80
XS34CA1JCR	$728.00	65,137,80
XS34CA2J	$630.00	65,137,80
XS34CA2JCR	$630.00	65,137,80
XS34S1ACR	$630.00	63,79
XS34S3A14	$700.00	48,59
XS34SA2A	$576.00	48,59
XS34SA2ACR	$601.00	63,79
Y12S2B	$658.00	50,61
Y12S2BCR	$672.00	63,79
Y13S2BCR	$638.00	63,79
Y34S2B	$694.00	50,61
Y34S2BCR	$708.00	63,79
YC100P2B	$17,179.00	51,62
YC10P1B	$2,129.00	50,61
YC10P2B	$2,084.00	50,61
YC10P3B	$3,804.00	50,61
YC10P4B	$6,630.00	50,61
YC15P1B	$2,851.00	50,61
YC15P2B	$2,735.00	50,61
YC15P3B	$4,714.00	50,61
YC1P2B	$872.00	50,61
YC1P3B	$1,022.00	50,61
YC1P4B	$1,741.00	50,61
YC20P1B	$3,656.00	50,61
YC20P2B	$3,323.00	50,61
YC20P3B	$5,563.00	50,61
YC20P4B	$9,870.00	50,61
YC25P1BS	$4,457.00	51,62
YC25P2B	$3,981.00	51,62
YC25P3B	$6,956.00	51,62
YC25P4B	$11,453.00	51,62
YC2P1B	$1,017.00	50,61
YC2P2B	$980.00	50,61
YC2P3B	$1,281.00	50,61
YC2P4B	$2,599.00	50,61
YC30P1BS	$4,835.00	51,62
YC30P2B	$4,671.00	51,62
YC30P3B	$8,236.00	51,62
YC32P1B	$913.00	50,61
YC32P2B	$917.00	50,61
YC32P3B	$1,106.00	50,61
YC32P4B	$2,429.00	50,61
YC3P1B	$1,147.00	50,61
YC3P2B	$1,149.00	50,61
YC3P3B	$1,643.00	50,61
YC3P4B	$3,227.00	50,61
YC40P1BS	$6,466.00	51,62
YC40P2B	$6,176.00	51,62
YC40P3B	$10,863.00	51,62
YC50P1BS	$8,520.00	51,62
YC50P2B	$7,639.00	51,62
YC50P3B	$12,414.00	51,62
YC5P1B	$1,445.00	50,61
YC5P2B	$1,279.00	50,61
YC5P3B	$2,184.00	50,61
YC5P4B	$4,411.00	50,61
YC60P1BS	$12,381.00	51,62
YC60P2B	$11,342.00	51,62
YC60P3B	$14,143.00	51,62
YC75P1BS	$14,435.00	51,62
YC75P2B	$14,076.00	51,62
YC75P3B	$17,169.00	51,62
YC7P1B	$1,683.00	50,61
YC7P2B	$1,757.00	50,61
YC7P3B	$2,919.00	50,61
YC7P4B	$5,437.00	50,61

NEMA®† Dimension Guide

Dimensions for AC Foot-Mounted Motors with Single Straight-Shaft Extension





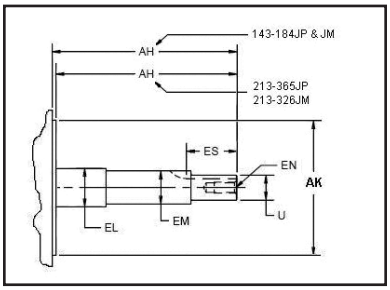


Frame	A Max	D	E	2F	BA	H	U	N-W	V Min.	Keyseat R	Keyseat ES Min.	Keyseat S	AA Min.
42	—	2.62	1.75	1.69	2.06	0.28 slot	0.375	1.12	—	0.328	—	flat	—
48	—	3.00	2.12	2.75	2.50	0.34 slot	0.500	1.50	—	0.453	—	flat	—
48H				4.75									
56	—	3.50	2.44	3.00	2.75	0.34 slot	0.625	1.88	—	0.517	1.41	0.188	—
56H				5.00									
143T	7.00	3.50	2.75	4.00	2.25	0.34 hole	0.875	2.25	2.00	0.771	1.41	0.188	3/4
145T				5.00									
182	9.00	4.50	3.75	4.50	2.75	0.41 hole	0.875	2.25	2.00	0.771	1.41	0.188	3/4
184				5.50									
182T				4.50			1.125	2.75	2.50	0.986	1.78	0.250	
184T				5.50									
213	10.50	5.25	4.25	5.50	3.50	0.41 hole	1.125	3.00	2.75	0.986	2.03	0.250	3/4
215				7.00									
213T				5.50			1.375	3.38	3.12	1.201	2.41	0.312	1
215T				7.00									
254U	12.50	6.25	5.00	8.25	4.25	0.53 hole	1.375	3.75	3.50	1.201	2.78	0.312	1
256U				10.00									
254T				8.25			1.625	4.00	3.75	1.416	2.91	0.375	1-1/4
256T				10.00									
284U	14.00	7.00	5.50	9.50	4.75	0.53 hole	1.625	4.88	4.63	1.416	3.78	0.375	1-1/4
286U				11.00									
284T				9.50			1.875	4.62	4.38	1.591	3.28	0.500	1-1/2
286T				11.00									
284TS				9.50			1.625	3.25	3.00	1.416	1.91	0.375	1-1/2
286TS				11.00									
324U	16.00	8.00	6.25	10.50	5.25	0.66 hole	1.875	5.63	5.38	1.591	4.28	0.500	1-1/2
326U				12.00									
324US				10.50			1.625	3.25	3.00	1.416	1.91	0.375	
326US				12.00									
324T				10.50			2.125	5.25	5.00	1.845	3.91	0.500	2
326T				12.00									
324TS				10.50			1.875	3.75	3.50	1.591	2.03		
326TS				12.00									
364U	18.00	9.00	7.00	11.25	5.88	0.66 hole	2.125	6.38	6.13	1.845	5.03	0.500	2
365U				12.25									
364US				11.25			1.875	3.75	3.50	1.591	2.03		
365US				12.25									
364T				11.25			2.375	5.88	5.62	2.021	4.28	0.625	3
365T				12.25									
364TS				11.25			1.875	3.75	3.50	1.591	2.03	0.500	
365TS				12.25									
404U	20.00	10.00	8.00	12.25	6.62	0.81 hole	2.375	7.13	6.88	2.021	5.53	0.625	2
405U				13.75									
404US				12.25			2.125	4.25	4.00	1.845	2.78	0.500	
405US				13.75									
404T				12.25			2.875	7.25	7.00	2.450	5.65	0.750	3
405T				13.75									
404TS				12.25			2.125	4.25	4.00	1.845	2.78	0.500	
405TS				13.75									
444U	22.00	11.00	9.00	14.50	7.50	0.81 hole	2.875	8.63	8.38	2.450	7.03	0.750	2-1/2
445U				16.50									
444US				14.50			2.125	4.25	4.00	1.845	2.78	0.500	
445US				16.50									
444T				14.50			3.375	8.50	8.25	2.880	6.91	0.875	3
445T				16.50									
447T				20.00									
449T				25.00									
444TS				14.50			2.375	4.75	4.50	2.021	3.03	0.625	
445TS				16.50									
447TS				20.00									
449TS				25.00									
5004	25.00	12.50	10.00	16.00	8.50	0.94 hole	3.875	11.63	11.25	3.309	10.00	1.000	—
5004G							3.500	10.50	10.19	3.007	9.00	0.875	—
5004S							2.875	5.75	5.50	2.450	4.13	0.750	—
5004SS							2.375	4.75	4.50	2.021	3.13	0.625	—
5006L	28.50			20.00			4.875	14.63	14.38	4.168	12.88	1.250	—
5006S							2.875	5.75	5.50	2.450	4.00	0.750	—
5006MS							3.375	6.75	6.50	2.880	5.00	0.875	—
5008	25.00			25.00			3.875	11.63	11.25	3.309	10.00	1.000	—
5008G							3.500	10.50	10.19	3.007	9.00	0.875	—
5008L	28.50						4.875	14.63	14.38	4.168	12.88	1.250	—
5008S	25.00[1]						2.875	5.75	5.50	2.450	4.13[1]	0.750	—
	28.50[2]										4.00[2]		
5008MS	28.50						3.375	6.75	6.50	2.880	5.00	0.875	—
5008SS	25.00[1]						2.375	4.75	4.50	2.021	3.13[1]	0.625	—
	28.50[2]										3.00[2]		
5010L	28.50			32.00			4.875	14.63	14.38	4.168	12.88	1.250	—
5010S							2.875	5.75	5.50	2.450	4.00	0.750	—
5010MS							3.375	6.75	6.50	2.880	5.00	0.875	—
5010SS							2.375	4.75	4.50	2.021	3.00	0.625	—
5012L				40.00			4.875	14.63	14.38	4.168	12.88	1.250	—
5012S							2.875	5.75	5.50	2.450	4.00	0.750	—
5012MS							3.375	6.75	6.50	2.880	5.00	0.875	—
5012SS							2.375	4.75	4.50	2.021	3.00	0.625	—

1. Totally Enclosed Motors 2. Open Dripproof Motors

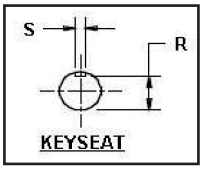
JP Shaft

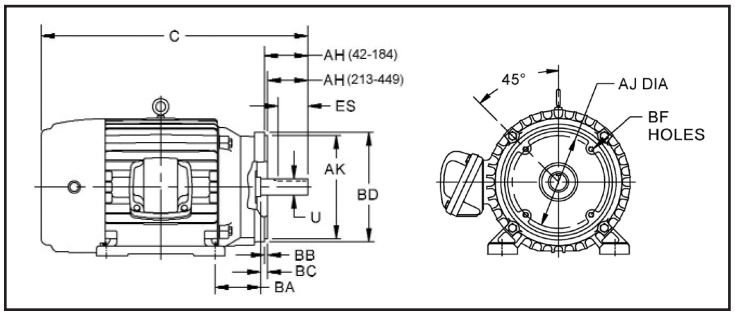
Frame	AH	U	EM	EL	EN	AK	Keyseat R	Keyseat ES Mins.	Keyseat S
143 145	7.313	0.8745	1.0000	1.156	3/8-16 x .75	4.500	0.771	1.65	0.188
182 184	7.313	0.8745	1.0000	1.250	3/8-16 x .75	4.500	0.771	1.65	0.188
213 215	8.125	1.2495	1.3750	1.750	3/8-16 x .75	8.500	1.112	1.65	0.250
254 256	8.125	1.2495	1.3750	1.750	1/2-13 x 1.00	8.500	1.112	2.53	0.250
284 286	8.125	1.2495	1.3750	1.750	1/2-13 x 1.00	12.500	1.112	2.53	0.250
324 326	8.125	1.2495	1.3750	1.750	1/2-13 x 1.00	12.500	1.112	2.53	0.250
364 365	8.125	1.6245	1.7500	2.125	1/2-13 x 1.00	12.500	1.416	2.53	0.375



JP Shaft

Frame	AH	U	EM	EL	EN	AK	Keyseat R	Keyseat ES Mins.	Keyseat S
143 145	4.250	0.8745	1.0000	1.156	3/8-16 x .75	4.500	0.771	1.65	0.188
182 184	4.250	0.8745	1.0000	1.250	3/8-16 x .75	4.500	0.771	1.65	0.188
213 215	4.250	0.8745	1.0000	1.250	3/8-16 x .75	8.500	0.771	1.65	0.188
254 256	5.250	1.2495	1.3750	1.750	1/2-13 x 1.00	8.500	1.112	2.53	0.250
284 286	5.250	1.2495	1.3750	1.750	1/2-13 x 1.00	12.500	1.112	2.53	0.250
324 326	5.250	1.2495	1.3750	1.750	1/2-13 x 1.00	12.500	1.112	2.53	0.250





Dimensions for Type C-Face AC Motors, Footed or Footless

Frame	AJ	AK	BA	BB Min.	BC	BD Max.	BF Hole Number	BF Hole Tap Size	BF Hole Bolt Penetration Allowance	U	AH	Keyseat R	Keyseat ES Mins.	Keyseat S
42C	3.750	3.000	2.062	0.16	-0.19	5.00	4	1/4-20	—	0.375	1.312	0.328	—	flat
48C	3.750	3.000	2.50	0.16	-0.19	5.625	4	1/4-20	—	0.500	1.69	0.453	—	flat
56C	5.875	4.500	2.75	0.16	-0.19	6.50	4	3/8-16	—	0.625	2.06	0.515	1.41	0.188
143TC & 145TC	5.875	4.500	2.75	0.16	+0.12	6.50	4	3/8-16	0.56	0.875	2.12	0.771	1.41	0.188
182TC & 184TC	7.250	8.500	3.50	0.25	+0.12	9.00	4	1/2-13	0.75	1.125	2.62	0.986	1.78	0.250
182TCH & 184TCH	5.875	4.500	3.50	0.16	+0.12	6.50	4	3/8-16	0.56	1.125	2.62	0.986	1.78	0.250
213TC & 215TC	7.250	8.500	4.25	0.25	+0.25	9.00	4	1/2-13	0.75	1.375	3.12	1.201	2.41	0.312
254TC & 256TC	7.250	8.500	4.75	0.25	+0.25	10.00	4	1/2-13	0.75	1.625	3.75	1.416	2.91	0.375
284TC & 286TC	9.000	10.500	4.75	0.25	+0.25	11.25	4	1/2-13	0.75	1.875	4.38	1.591	3.28	0.500
284TSC & 286TSC	9.000	10.500	4.75	0.25	+0.25	11.25	4	1/2-13	0.75	1.625	3.00	1.416	1.91	0.375
324TC & 326TC	11.000	12.500	5.25	0.25	+0.25	14.00	4	5/8-11	0.94	2.125	5.00	1.845	3.91	0.500
324TSC & 326TSC	11.000	12.500	5.25	0.25	+0.25	14.00	4	5/8-11	0.94	1.875	3.50	1.591	2.03	0.500
364TC & 365TC	11.000	12.500	5.88	0.25	+0.25	14.00	4	5/8-11	0.94	2.375	5.62	2.021	4.28	0.625
364TSC & 365TSC	11.000	12.500	5.88	0.25	+0.25	14.00	8	5/8-11	0.94	1.875	3.50	1.591	2.03	0.500
404TC & 405TC	11.000	12.500	6.62	0.25	+0.25	15.50	8	5/8-11	0.94	2.875	7.00	2.450	5.65	0.750
404TSC & 405TSC	11.000	12.500	6.62	0.25	+0.25	15.50	8	5/8-11	0.94	2.125	4.00	1.845	2.78	0.500
444TC & 445TC	14.000	16.000	7.50	0.25	+0.25	18.00	8	5/8-11	0.94	3.375	8.25	2.880	6.91	0.875
444TSC & 445TSC	14.000	16.000	7.50	0.25	+0.25	18.00	8	5/8-11	0.94	2.375	4.50	2.021	3.03	0.625
447TC & 449TC	14.000	16.000	7.50	0.25	+0.25	18.00	8	5/8-11	0.94	3.375	8.25	2.880	6.91	0.875
447TSC & 449TSC	14.000	16.000	7.50	0.25	+0.25	18.00	8	5/8-11	0.94	2.375	4.50	2.021	3.03	0.625
5000 Frame Series	14.500	16.500	—	0.25	+0.25	18.00	4	5/8-11	0.94	—	—	—	—	—

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