



Commercial and Industrial  
Motors Catalog

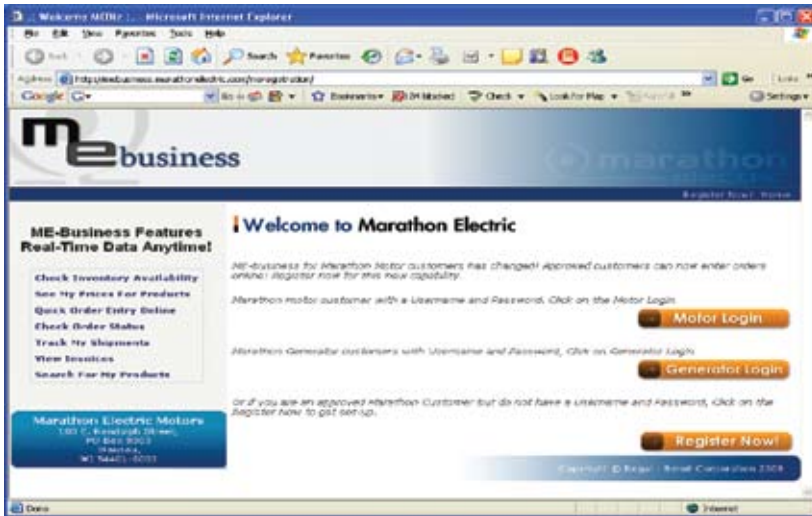


Motors for the long run



# Easy to do business with...24/7/365!!!

## ME-Business:



Marathon Electric's new and improved ecommerce site, "ME business", is packed with user-friendly features to help our customers check stock, place orders, track orders and invoices, verify pricing and even has a product search feature when you aren't sure what you need. We've included a number of reports that can easily be exported into Microsoft databases such as Excel.

## Marathon Electric Web Site:



Marathon's world-class website is jam packed with tons of information. Navigation is easy and functionality is better than ever.

Consult our website for product selection, technical data, catalogs, literature, and maintenance information...even to locate a distributor.

Use the "Motors" link to obtain information specific to Marathon Electric motors, kits, drives, and modifications. Functions include product search, competitive cross-reference, service locations, warranty information, and the link to ME business.

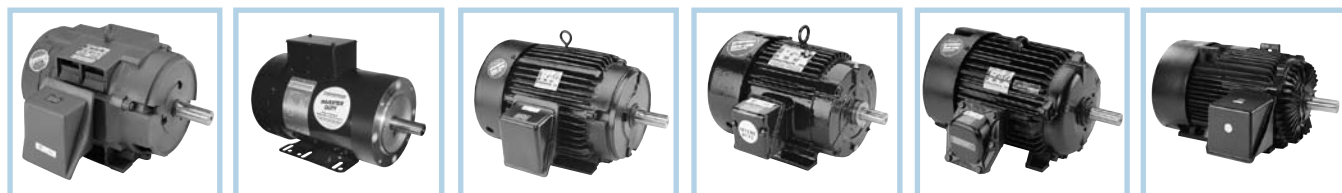
Other information includes frequently asked questions, how to read a model number, and contact information.

All Available @ [www.marathonelectric.com](http://www.marathonelectric.com)

Try it today!



# Marathon Electric...ready for EISA



The EISA (Energy Independence and Security Act) legislation that became active on December 19, 2010 has changed the industry. The emphasis on energy efficiency and environmental stewardship has been a focus of Marathon Electric long before this new legislation. Marathon Electric has had the XRI family of Ultra Efficiency products available since 1986. To comply with

the new legislation and to enhance our product offering, Marathon electric has increased the efficiency on over 1000 additional ratings and has added over 400 new ratings. With products coming from one of Regal-Beloit's 30+ factories around the globe, we have the solutions for what the industry needs.

## Summary of EISA Requirements:

Description	Efficiency
1-200HP, T frame, 2/4/6-Pole, 230 or 460V, 3-Ph, 60 Hz, open	NEMA Premium
1-200HP, T frame, 2/4/6-Pole, 230 or 460V, 3-Ph, 60 Hz, enclosed	NEMA Premium
1-200HP, T frame, 2/4/6-Pole, 230 or 460V, 3-Ph, 60 Hz, explosion proof	NEMA Premium
201-500 HP, 2/4/6-Pole, <600V, open or enclosed	EPAct
U frame	EPAct
Design C	EPAct
Close-coupled pump	EPAct
Fire Pump motors	EPAct
Footless motors	EPAct
Vertical Solid Shaft, normal thrust	EPAct
8-Pole (900 RPM @ 60 Hz)	EPAct
3-Ph, 60 Hz, with voltages less than 600 but not 230 or 460	EPAct
Intermittent duty	Exempt
50 Hz only, all voltages	Exempt
Multi-speed (based on highest HP & associated pole/RPM)	Exempt
TEBC, TENV, DPFV and Air Over	Exempt

## Motor Evaluation:

If motor has one (or more) of these features, it is exempt and can be Standard Efficiency -

Horsepower less than 1hp or higher than 501hp	Motors for Inverter Use Only (with labels and nameplate)
Voltage 601v or higher	Brake (installed, not provisions only)
Single phase	Integral Gear motors
Frequencies other than 60Hz or 60/50Hz	Saw Arbor
Design D and Ultra High Slip (UHS) motors	TENV, TEBC, DPFV, TEAO or Open Air Over (DPAO, OPAO)
10 Poles and higher pole count	Non-Continuous / Intermittent (must have time rating, ex: 30 min)
Encapsulated windings	Phase converters
Frame sizes NEMA 56 (IEC 80) and smaller	Induction generators
Non-NEMA Base or FEET	Motors rated & labeled "Inverter Only"
Thrust Bearings or Sleeve Bearings	Multispeed
Non-NEMA (custom) flange / bracket / endshield	Non-standard shaft dimensions (non-NEMA)

If motor does not have any features from the above table but does have one or more of the following features, it must meet EPACT (Table 12-11).

201-500hp	Voltages that are not capable of operating at 230v or 460v must meet Table 12-11. This means:
Design C	_____ Voltage 208v and lower at (60Hz)
8 Pole	_____ Voltage 255v through 416v (at 60Hz)
NEMA U or US Shaft	_____ Voltage 510v through 600v (at 60Hz)
Footless or Round Body	_____
Close Coupled Pump	Firepump
Vertical Normal Thrust	_____

If the motor does not have any features listed above it must meet NEMA Premium (Table 12-12). For additional details, please visit our web site. [www.marathonelectric.com](http://www.marathonelectric.com)



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## General Information

### MARATHON ELECTRIC

Since 1913, Marathon Electric's name has been recognized for engineering excellence, custom-designed products and an extensive product line of industrial quality motors. Available in all popular enclosures from 1/12 HP through 3000 HP and in a variety of mounting configurations, Marathon Electric's unique designs provide more ways in which to add accessories, such as blowers, brakes and encoders, to our motors than anyone else in the motor business. Our state-of-the-art lab facilities are equipped and staffed with the finest resources available to ensure successful utilization of our products. Finally, as the preferred supplier of motors to most of the top drive manufacturers in North America, we have what it takes to be a leader in understanding the interaction of drives as they are applied with AC induction motors.

### WEBSITE AND E-COMMERCE

Information can be accessed instantly, any time of the day on ME-business. Marathon customers can sign-up for ME-business by contacting their sales representative.

ME-business can be accessed through: **www.marathonelectric.com**.



- Stock Availability
- Order Status
- Shipping Information
- Invoice Information
- Product features and performance data

## Marathon Electric Nameplate Information - HOW TO READ A MARATHON ELECTRIC NAMEPLATE

The nameplate is the key to selecting the proper replacement motor.

**marathon electric**  
WAUSAU, WISCONSIN 54401 U.S.A.

**XRI**  
HIGH EFFICIENCY

MARINE DUTY IEEEE45 USCG IEEEE841 NEMA Premium API RP14F

MODEL AN 256THFNA9026ABL MTG. F1 FRAME 256T

PART NO. 5 SER. 6

TYPE TFS 7 DES. B 8 PH 3 9 INS. CL. F 10 DUTY CONT 11 MAX. AMB. IC 40°C 12

ENCL. TEFC 13 RISE 65°C 14 IP 56 15 IC 41 16 CODE G 17

MTH/YR MFG. 12/2003 18 WT/LBS 412 19 WT/KG 187 20

ALTITUDE 1000M/3300 FT SHAFT END BRG 6309 32

HZ 60 21 VOLTS 460 22 HZ 50 VOLTS 400

HP 20 23 KW 15 24 HP 15 KW 11

F.L.AMPS 24.1 25 SF 1.25 26 F.L.AMPS 21.5 SF 1.15

PF(COS) φ 84.0 27 RPM 1775 28 PF(COS) φ 82.0 RPM 1475

NOM EFF 93.0 29 NOM EFF 93.0

SHAFT END BEARING 45BC03XPP30X 30 OPP. END BEARING 50BC02XPP30X 31

FOR USE ON PWM VFD 10:1 VT, 20:1 CT, 1.0 SF.

CSA CERTIFIED FOR CLASS I, GROUP A, B, C, D, DIV. 2/ZONE 2 GROUP IIA, IIB, IIC; TEMPERATURE CODE T3 @ 1.0SF OR T2B @ 1.15SF ON SINE-WAVE POWER, OR T2D @ 1.0SF ON PWM TYPE VFD POWER.

CSAAT EEV102077

UL E49747

CE

CSA LR21839

CC003A

CSA Verification Mark - Complies with CSA's Energy Efficiency Verification Service and their Standard C390 - C390 is the Canadian efficiency equivalent of EPAct.

Underwriters Laboratories, Inc. UL Recognized Component Mark UL file #

CE (Conformité Européene) Marking This mark signifies the motor complies with the European Low Voltage Directive.

CSA Mark - Certified by the Canadian Standards Association CSA file #

CC# - Compliance Certification Number as per assigned by the Department of Energy. Motors meeting EPAct efficiencies or higher will have this number.

Motor Specifications (Example)

Agency Symbols

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. <b>MODEL</b> - The ID number</li> <li>2. <b>DATE CODE</b> - The month and year manufactured</li> <li>3. <b>MTG.</b> - Mounting</li> <li>4. <b>FRAME</b> - The size &amp; mounting</li> <li>5. <b>PART NO.</b> - Customer part number</li> <li>6. <b>SER.</b> - Serial number</li> <li>7. <b>TYPE</b> - Electrical type</li> <li>8. <b>DES.</b> - Code by NEMA or IEC</li> <li>9. <b>PH</b> - Electrical phase usually 1 or 3</li> <li>10. <b>INS CL</b> - Insulation Class</li> <li>11. <b>DUTY</b> - Time rating under load</li> <li>12. <b>MAX AMB</b> - The allowable surrounding air temperature</li> <li>13. <b>ENCL</b> - Enclosure (i.e. TEFC)</li> <li>14. <b>RISE</b> - The temperature rise over ambient expressed in degrees Celsius when the motor operates at nameplated HP or KW</li> <li>15. <b>IP</b> - Inherent Protection of the enclosure to solids and liquids as defined by IEC 34-5</li> <li>16. <b>IC</b> - Inherent Cooling</li> <li>17. <b>CODE</b> - NEMA locked-rotor KVA</li> <li>18. <b>MTH/YR MFG.</b> - Month and year motor was manufactured</li> </ol> | <ol style="list-style-type: none"> <li>19. <b>WT/LBS</b> - Motor weight in pounds</li> <li>20. <b>WT/KG</b> - Motor weight in kilograms</li> <li>21. <b>HZ</b> - Input frequency of the power supply, usually 50 or 60 HZ</li> <li>22. <b>VOLTS</b> - Voltage rating of the motor at the operating frequency</li> <li>23. <b>HP</b> - Rated horsepower the motor will produce</li> <li>24. <b>KW</b> - Rated output in watts</li> <li>25. <b>F.L. AMPS</b> - The rated load current expressed in amps at nameplated horsepower with nameplate voltage and frequency</li> <li>26. <b>S.F.</b> - Percentage of the rated horsepower the motor can safely operate at: Example: 1.15 SF (115% of rated HP)</li> <li>27. <b>PF / COS</b> - Power Factor / Cosine is the ratio of actual power to the apparent power</li> <li>28. <b>RPM</b> - Full load speed at rated frequency</li> <li>29. <b>NOM EFF</b> - Average Efficiency</li> <li>30. <b>SHAFT END BEARING</b> - Manufacturer drive end bearing number</li> <li>31. <b>OPP. END BEARING</b> - Manufacturer opposite drive end bearing number</li> <li>32. <b>SHAFT END BRG</b> - Drive end bearing size</li> <li>33. <b>OPP</b> - Opposite drive end bearing size</li> </ol> |
|---|--|



# General Information

## HOW TO READ A MODEL NUMBER:

Each Marathon Electric motor carries a model number that can be used to define some of the motor's physical and electrical characteristics.

Example (For Fractional): 1PC48C17D2000AP

This is a breakdown of the model on the nameplate:

<u>1</u>	<u>P</u>	<u>C</u>	<u>48</u>	<u>C</u>	<u>17</u>	<u>D</u>	<u>2000</u>	<u>A</u>	<u>P</u>
1	2	3	4	5	6	7	10	11	12

This is a breakdown of the model in the catalog:

<u>48</u>	<u>C</u>	<u>17</u>	<u>D</u>	<u>2000</u>
4	5	6	7	10

Example (For Integral): 2QA215TBDR A7076ALL

This is a breakdown of the model on the nameplate:

<u>2</u>	<u>Q</u>	<u>A</u>	<u>215T</u>	<u>B</u>	<u>D</u>	<u>R</u>	<u>A</u>	<u>7076</u>	<u>AL</u>	<u>L</u>
1	2	3	4	5	7	8	9	10	11	12

This is a breakdown of the model in the catalog:

<u>215T</u>	<u>B</u>	<u>D</u>	<u>R</u>	<u>A</u>	<u>7076</u>
4	5	7	8	9	10

- Date Code** - Year of Manufacture (Not shown in catalog listings.)
- Thermal Protection** (Not shown in catalog listings.)

UL Recognized Motor Protector <u>Combination</u>	UL Recognized Motor <u>Construction</u>
--	---

Automatic Reset	Automatic Reset	Automatic Reset
Q	Yes	Yes
S	No	No
U	No	Yes
W	#	Yes
Manual Reset	Manual Reset	Manual Reset
P	Yes	Yes
Z	No	Yes
X	No	No
None	None	None
V	No	Yes

# Motor protector combination is U.L. recognized only if motor is used in direct drive fan duty application, and is under locked rotor condition, or is running under no-load condition.

- Date Code** - Month of Manufacturer (Not shown in catalog listings.)
- NEMA Frame Size** - (Integral motors - T and U designate standard shaft, TS and US designate short shaft)

## 5. Electrical Type

Single Phase:

- A = Permanent split capacitor
- B = Capacitor start, capacitor run
- C = Capacitor start, induction run
- N = Split phase start, capacitor run
- S = Split phase

Three Phase:

- T = Three phase
- H = Inverter Duty/IEEE841 Inverter Duty
- V = Medium Voltage

DC Power:

- E = Permanent Magnet DC

## 6. RPM or Speed at 60 Hz (Fractional Only)

- 34 = 2-Pole, 3600 rpm
- 17 = 4-Pole, 1800 rpm
- 11 = 6-Pole, 1200 rpm
- 8 = 8-Pole, 900 rpm

## 7. Enclosure

- D = Dripproof
- E = Explosion proof, non-ventilated
- F = Totally enclosed, fan cooled
- G = Explosion proof, fan cooled
- O = Open
- P = Partial
- S = Semi-enclosed
- T = Totally enclosed, non-ventilated
- V = Washdown, non-ventilated
- W = Washdown, fan cooled

## 8. Frame Construction

**Integral**

**Fractional** (where applicable)

- L = Aluminum (Full Frame)
- Y = Aluminum (Full Frame)
- Z = Aluminum (High Mount Down Frame)
- H = Aluminum - Sourced
- R = Rolled Steel (Full Frame)
- W = Rolled Steel (Full Frame)
- X = Rolled Steel (High Mount Down Frame)
- B = Rolled Steel - Sourced
- S = Cast Iron (Full Frame)
- N = Cast Iron (Full Frame)
- P = Cast Iron (High Mount Down Frame)
- C = Cast Iron - Sourced
- D = Stainless Steel
- B = Rolled Steel - Sourced
- D = Stainless Steel - Sourced
- U = Frameless - Sourced

## 9. Style Letter (A, B, C, etc. indicate redesign)

## 10. Sequence Number

## 11. Minor Modification Letter(s)

**Fractional - 1 letter; Integral - 2 letters**

## 12. Manufacturing Code - A code for the factory where the motor was manufactured.

## General Information

### HOW TO READ A MODEL NUMBER: Continued

#### Example ("harmonized" motor design):

A	B	C	D	E	F	G	H	I
5	KH	3	6	K	G	142	-	X

#### A. Rotating Device

#### B. Type of Winding

KH - Split Phase  
 KC - Capacitor Start, Induction Run  
 K - Polyphase  
 KCP - Permanent Split Capacitor  
 KCR - Capacitor Start, Capacitor Run

#### C. Lamination Size

3 - 48 frame, 4 - 56 frame

#### D. Length of Frame

	48 frame	56 frame
2	5.17	5.73
3	5.42	6.63
4	None	None
5	5.80	7.11
6	6.23	None
7	6.63	7.63
8	7.23	8.44
9	Spec.	Spec.

#### E. Stack Length

A - 5/8"	F - 1-1/4"	L - 1-7/8"	S - 3.0"
B - 3/4"	G - 1-3/8"	M - 2.0"	T - 3-1/4"
C - 7/8"	H - 1-1/2"	N - 2-1/4"	U - 3-1/2"
D - 1.0"	J - 1-5/8"	P - 2-1/2"	W - 4.0"
E - 1-1/8"	K - 1-3/4"	R - 2-3/4"	Q - Spec.

#### F. Endshield Construction

G & N - Aluminum  
 K - Steel  
 C - Cap/Can

#### G. Sequence Number

#### H. Current Revision (blank if original)

#### I. Type of Overload

X - UL Auto running & locked rotor  
 Y - UL Manual running & locked rotor  
 S - UL Auto locked rotor  
 T - Non-UL Auto running & locked rotor  
 U - Non-UL Manual running & locked rotor  
 V - Thermostat  
 W - UL Motor Parts

### ORDERING INFORMATION

When ordering, please include the model number, catalog number, description of the motor, quantity, shipping and billing instructions. For pricing of non-stock motors, or if you need assistance in selecting the proper motor, please contact your nearest Marathon Electric sales representative or local Marathon Electric Distributor. **All prices and data are subject to change without notice.**

### CANCELLATIONS AND RETURNS

#### Stock Product

Stock product can be returned for credit as defined herein. Equipment must be in original packaging, unused in "as shipped" condition and is **limited to products currently maintained in stock inventory**. The quantity returned cannot exceed Marathon Electric's normal stock quantity level. All motors returned must have date codes no older than 18 months from date of manufacture. The minimum restocking charge is 15% of the original net purchase price. Modified and build to order motors cannot be returned for credit. Return freight charges are the responsibility of the customer returning the motor for credit. **No returns will be accepted without prior authorization.**

#### Non-stock Product Cancellation policy:

Cancellation charges for non-stock orders received and entered will be determined based on the percentage of completion in the engineering and manufacturing process, accounting for all costs plus a reasonable profit. Marathon Electric's determination of the cancellation charges shall be conclusive.

#### DISCOUNTS AND MULTIPLIERS

Except as noted, all prices in this catalog are list prices. 200 and 575 volt 3 phase ratings utilize the same list price as 230/460 volt. NEMA short shaft (TS) utilize the same list price as standard shaft (T). Contact Marathon Electric for special bearing systems, including all requirements for sleeve or roller bearing. For your discount and multiplier, contact your local Marathon Electric sales representative or local Marathon Electric Distributor.

#### MODIFICATION/ACCESSORIES

See the Modification/Accessories Sections for more information on modifications to create special motor variations.

## General Information

### STOCK, NON-STOCK AND BUILD UP MODELS

Standard motors listed in this catalog, as indicated with a star (\*) next to the catalog number, are normally in stock. There is no minimum order quantity or minimum billing charge associated with stock motors, unless stated otherwise in your quotation or agreement with Marathon Electric.

Production of non-stock catalog models and all build-up models is subject to minimum order quantities or setup charges listed below.

48-140 Frame = 25 piece minimum  
 180-210 Frames = 5 piece minimum or \$200 set-up/model  
 250-320 Frames = 5 piece minimum or \$300 set-up/model

Build-up motors must be thoroughly described at time of order, and/or associated with a formal quotation issued by Marathon Electric. **Inclusion of product features for similar motors documented in this catalog should not be assumed.**

### SERVICE

For service on any Marathon Electric motor, contact your nearest Marathon Electric Authorized Service Station. For a complete listing of all domestic and foreign service stations, refer to [www.marathonelectric.com](http://www.marathonelectric.com).

### OPERATION AND MAINTENANCE

For information on operation and maintenance, please consult the manual or card shipped with your new motor. Additional copies of "Installation, Operation & Maintenance Instructions" (brochure SB181) are available upon request or through our website, [www.marathonelectric.com](http://www.marathonelectric.com).

### STORAGE PROCEDURES

In the event that long-term storage of motors is required, Marathon Electric recommends the following precautions and procedures. This information is also contained in "Installation, Operation and Maintenance Instructions" (SB181).

#### A. Keep motors clean

1. Store indoors
2. Keep covered to eliminate airborne dust and dirt.
3. Cover openings for ventilation, conduit connections, etc., to prevent entry of rodents, snakes, birds and insects.

#### B. Keep motors dry

1. Store in a dry area indoors
2. Temperature swings should be minimal to prevent condensation.
3. Space heaters are recommended to prevent condensation.
4. Treat unpainted flanges, shafts and fittings with a rust inhibitor.
5. Check insulation resistance before putting motor into service.

#### C. Keep bearings lubricated

1. Once per month, rotate shaft several turns to distribute grease in bearings.
2. If unit has been stored more than one year, add grease before start-up (refer to lubrication procedure).

### DIMENSION DRAWINGS

See Marathon Electric's website: [www.marathonelectric.com](http://www.marathonelectric.com) or request certified drawings through your Marathon Electric Sales Engineer, Representative or local Marathon Electric Distributor.



## General Information

### WARRANTY

Marathon Electric warrants Fractional and Integral motors to be free from defects in materials and workmanship and to conform to Marathon's written specifications.

Motor Type	Warranty Period from Date of Installation *	Warranty Period from Date of Manufacture *
Standard Warranty for any product not shown below	<b>12</b>	<b>18</b>
Medium Voltage	<b>12</b>	<b>18</b>
EPA compliant (aluminum, steel & cast iron frame)	<b>24</b>	<b>30</b>
Blue Chip Severe Duty Explosion Proof	<b>24</b>	<b>30</b>
Blue Max®, Black Max®, & microMax™ Inverter Duty	<b>36</b>	<b>42</b>
All NEMA Premium® incl. ODP, Blue Chip, Severe Duty, Explosion Proof, etc.	<b>36</b>	<b>42</b>
U-Frame Automotive Duty	<b>60</b>	<b>66</b>
Blue Chip IEEE-841	<b>60</b>	<b>66</b>

\* Warranty period shown is in months, and is valid for whichever period expires first.

Note: Brake discs are considered a normal maintenance item and are not covered under warranty.

For more information, on Marathon Electric's warranty policy, refer to the "Terms and Conditions of Sale" (MPN411) in the back of this catalog.

### SUBMITTAL DATA

Mechanical and electrical submittal data is available on many stock catalog motors through our website [www.marathonelectric.com](http://www.marathonelectric.com) by following the three steps listed on the next page. All other submittal data is available upon request when accompanied by a purchase order for the specified motor, **subject to the following additional charges**

### SUBMITTAL CHARGE SCHEDULE

TYPE	ELEMENTS	NET/EA
BASIC (.PDF format)	Nameplate data Motor characteristics Performance data Outline drawing External connection diagram	No-Charge
	Add for .dxf or .dwg format	\$25
BASIC-PLUS (.pdf format)	All "BASIC" elements, tailored to specific order. "Cut sheets" of installed accessories	\$75
	Add for .dxf or .dwg format	\$25
ADDITIONAL ITEMS (.pdf formats)	Speed/Torque curve	\$50
	Torque capability curve	\$50
	Commercial (end of line) test results (not available for West Plains motors)*	\$50
	Certificate of conformance	\$100
	Thermal damage curve (48-326T frame)	\$500 + cost of additional motor
	Thermal damage curve (364T-6805 frame)	\$1500 +cost of additional motor

\* Does not imply retesting

# General Information

1. From our homepage, click on the Motors link. From the Motors page, enter in the Marathon Catalog number or Model number.

Then click on Model number in results window.

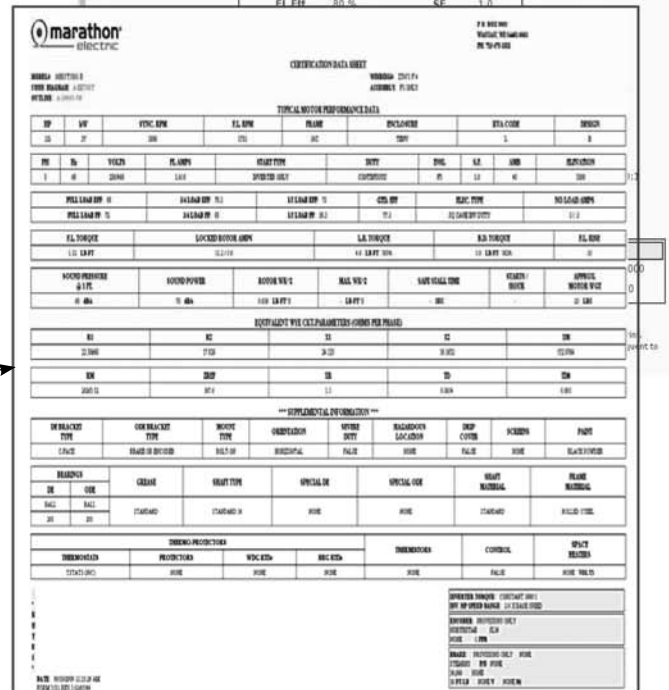
(Note: If you already have a Marathon Electric motor and are looking for the performance data, make sure the model number off the nameplate is what you use for your search. Ex. 056H17T5301).



2. The Motor Model Details page will appear. You will be able to print dimensional drawings and connection diagrams in PDF format for the motors. Under the Technical Data section, click on the link, Certification Data Sheet.



3. Your results will look similar to the example shown to the right for Marathon's 1/2 HP, Black Max® motor, model # 056H17T5301. It's that easy!



# Application Information

## AGENCY LISTINGS

### UL and CSA

Marathon Electric's Fire Pump and Explosion Proof motors are UL Listed. Other motor types are UL Recognized, including models with inherent overheating protection as noted (i.e. thermally protected models). Marathon motors are also CSA Certified for both explosion proof and non-explosion proof enclosures.

### AC Motors

Non-Explosion Proof	UL File No.	CSA File No.
NEMA 48-449 Frame	E49747	LR2025
All 5K type models numbers	E46035	MC236833
NEMA 500 and 5000 Frame	—	LR2025*
IEC 63-90 Frame	E49747	LR2025
IEC 100-280 Frame	E49747	LR2025*
Thermally Protected motors	E6312	LR2025
Thermally Protected 5K motors	E14133	MC236833
Insulation Systems	E37900	LR2025
* Does not include coverage for use with VFD		
* Domestic product only		
Explosion Proof	UL File No.	CSA File No.
NEMA 56-326 Frame	E12044	LR47504
NEMA 364-449 Frame	E12044	LR21839
Fire Pump Motors	UL File No.	CSA File No.
NEMA 143-510	EX5190	LR2025
Class I, Division 2/Zone 2	UL File No.	CSA File No.
NEMA 48-449, 5000 Frame	—	LR21839
European ATEX Zone 2	Intertek Certificate No.	
NEMA 143-449, IEC 112-280	ITS06ATEX45370	

### PMDC Motors

Non-Explosion Proof	UL File No.	CSA File No.
NEMA 56-145	E49747	E49747

### CE (Conformity Europeenne)

CE marking on the nameplates of Marathon Electric motors is available upon request for most motors rated 600V or less. We do not apply the CE Marking to explosion proof motors. The European "Low Voltage" Directive applies to electric motors. Contact a factory representative for details. Non-explosion proof microMAX™, BlackMax® and BlueMax® (TENV and TEFC) standard (catalog) models have the CE Mark on the nameplate.

### ATEX Directive (ATmospheres EXplosibles)

Mandatory by law, the European Union (EU) Directive 94/9/EC requires that electric motors for use in explosive atmospheres carry the CE mark, notified body identifier, Ex symbol, equipment group and category, plus the date code. See "European Installations" for additional details, located on the next page.

### NEMA (National Electrical Manufacturers Ass'n)

Marathon Electric motors are manufactured in accordance with all applicable areas of NEMA standards in MG1-2006. When applied in accordance with the "Guidelines for Application of Three Phase Motors on Variable Frequency Drives", **Marathon Electric motors are in full compliance with NEMA MG1-2006, Part 31, Section 4.4.2**, as pertaining to voltage spikes. 460 volt motors must withstand voltage spikes of up to 1426

volts; 575 volt motors must withstand spikes up to 1788 volts. See "Insulation Systems" for additional detail on this subject.

### Commitment to RoHS and WEEE European Directives

European Directive 2002/95/EC "Restriction of Use of Certain Hazardous Substances" (RoHS) and Directive 2002/96/EC "Directives on Waste Electrical and Electronic Equipment" (WEEE) were enacted to control the amount of certain hazardous substances contained in products shipped into the E.U. Restricted substances include lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls and polybrominated diphenyl ethers.

The scope of products covered, affecting motors, is:

- Large household appliances
- Small household appliances
- IT and telecommunications equipment
- Consumer equipment
- Electrical and electronic tools (except large scale stationary and industrial tools)
- Toys, leisure and sports equipment
- Automatic dispensers

The Directives do not currently apply to medical devices, monitoring and control instruments, spare parts for the repair or reuse of electrical and electronic equipment placed on the market before July 1, 2006, and most military and state security equipment.

Regal Beloit Corporation worked closely with suppliers to assure that product falling within the scope of these Directives meets the specified levels of these substances. The Directives took affect July 1st, 2006 however many products were converted in May and June. The products converted are motors in NEMA frame size 145 and below, both AC and DC motors with the following exceptions:

- Sleeve bearing motors
- Brake motors in 56-145 frame **will have to be ordered specifically as RoHS compliant.**
- **Some motors with specialty electro-mechanical components.**

### BEARINGS

FRAME SIZE	STANDARD TYPE	COMMENTS
48	Shield Ball	
56 - 145T	Sealed Ball	
182 - 444T	Double Shield Ball	
284 - 449TS	Single Shield Ball	
445T - 6805	Double Shield Ball	Direct - coupled loads
445T - 6805	Roller (DE)/Ball	Belted loads

\* **Belted data must be provided on all belted applications**

Standard horizontal motors can be mounted in a vertical shaft down orientation (except brakemotors). Contact a factory representative for shaft up mounting arrangements.

Motors for use in vertical shaft up or shaft down configurations must be reviewed by Engineering before ordering.

Continued on next page.



## Application Information

Marathon Electric motors employ the use of Mobil POLYREX<sup>®</sup> EM grease, a specially formulated bearing grease designed for electric motors. POLYREX<sup>®</sup> EM provides superior lubricity, durability and resists corrosion, rust and washout. POLYREX<sup>®</sup> EM is a registered trademark of Mobil Corporation.

Maximum safe mechanical speed capability is a function of bearing size, type and grease selection, as well as rotor balance specifications. Consult the "Maximum Safe Mechanical Speed Limits" chart in the "Overspeed Capability" section.

Note that these values do not imply maximum constant horsepower RPM.

### EFFICIENCY

The efficiency of a motor is the ratio of its useful power output to its total power input and is usually expressed in a percentage. Marathon Electric offers standard, high efficient EPAct, and NEMA Premium<sup>®</sup> efficient (XRI) ratings. Standard efficiency motors may only be used on applications that are exempt from legislated efficiencies. The high efficient motor line is in compliance with the Energy Policy Act of 1992 (EPAct) and/or Canadian efficiencies as set by NRCAN. The Energy Independence and Security Act of 2007 (EISA07) will become law on December 19, 2010, requiring current EPAct-compliant motors to meet NEMA Premium<sup>®</sup> efficiencies, and most EPAct-exempt motors to meet EPAct levels. XRI Premium efficient motors in this catalog meet NEMA Premium<sup>®</sup> unless otherwise noted.

The XRI<sup>®</sup> line is a premium efficiency line, which exceeds mandated efficiencies of EPAct and /or NRCAN. Unless otherwise noted, XRI<sup>®</sup> premium efficient motors in this catalog meet NEMA Premium<sup>®</sup> the newly promoted efficiency levels by NEMA and the Consortium for Energy Efficiency (CEE).

### ELECTRICAL TYPE/STARTING METHOD

Motors in this catalog are capacitor start, split phase, permanent split capacitor, or three phase. Capacitor Start motors have high starting torque, high breakdown torque, and relatively low starting current. Split phase motors have medium starting torque and medium starting current. Permanent split capacitor motors have low starting torque and low starting current. Three phase motors have high starting, extra breakdown torque, and typically very low starting current. Single phase motors cannot be applied on variable frequency drives with three phase output.

### ENCLOSURE AND METHOD OF COOLING

Marathon Electric motors are available in various enclosures; Dripproof (DP), Dripproof Force Ventilated (DPFV), Totally Enclosed Fan Cooled (TEFC), Totally Enclosed Non-Ventilated (TENV), Totally Enclosed (TEAO) and Totally Enclosed Blower Cooled (TEBC). Application conditions will determine the type of motor enclosure required.

Dripproof motors have open enclosures and are suitable for indoor use and in relatively clean atmospheres. Dripproof motors have ventilating openings constructed so that drops of liquid or solid particles falling on the machine at an angle of not greater than 15 degrees from the vertical cannot enter the machine.

Totally enclosed motors are suitable for use in humid environments or dusty, contaminated atmospheres. Totally enclosed non-ventilated motors are NOT cooled by external means. Totally enclosed fan cooled motors are cooled by external means that are part of the motor but not in the internal workings of the motor. Totally enclosed air over motors are sufficiently cooled by external means, provided by the customer.

### HAZARDOUS DUTY™

Hazardous Duty™ motors are totally enclosed (fan cooled or non-ventilated) motors designed for applications in hazardous atmospheres containing explosive gases and/or combustible dusts.

### North American installations

North American standards for electric motors generally fall into one of two divisions. Division 1 Explosion Proof motors are UL Listed in accordance with NFPA Class I (Flammable Gases) or Class II (Combustible Dusts) and Groups (gases or dusts), depending upon the atmosphere. Division 2 motors are CSA Certified and are marked similarly to Division 1 equipment. Inverter Duty motors through 449T frames are CSA Certified for use in Division 2 locations.

### European installations

Motors for hazardous locations in Europe must meet a different set of standards and require different markings than those of North America. CENELEC sets the standards for equipment in hazardous locations for Europe. Motors for use in explosive atmospheres in Europe are often referred to as flameproof (Zone 1) or non-sparking (Zone 2) motors. These motors must comply with the ATEX Directive. The ATEX Directive covers all electrical equipment used in explosive atmospheres. To ensure compliance with the Directive, equipment must meet the essential ATEX requirements and carry the CE mark on the nameplate. Other information required on the nameplate includes the Ex symbol, group & category, Ex protection method, gas group, and temperature code, example (Ex) II 3 G Ex nA IIC T3).

**The tables on the next page describe Marathon Electric's capabilities by Area Classification and by Temperature Code.**

### IEC DEGREES OF PROTECTION vs. MARATHON ELECTRIC'S STANDARD CONSTRUCTION

The enclosure terminology for an IEC motor is a combination of the IP (Ingress Protection) and IC (Inherent Cooling) codes. Each number in the IP code stands for a different degree of protection.

- IP12 - Dripproof
- IP22 - Dripproof with screens, or die cast aluminum bracket
- IP43 - Totally Enclosed
- IP54 - Totally Enclosed Severe Duty
- IP55 - Totally Enclosed Severe Duty with V-Ring Shaft seals, and/or "Smart Ring" rotating shaft seal and Neoprene gaskets
- IP56 - Totally Enclosed Severe Duty with rotating Shaft seals (eg. Inpro/Seal<sup>®</sup> VBX bearing isolator) and Neoprene gaskets

# Application Information

## Marathon Electric Hazardous Duty Motor Area Classification Chart

Class I Area Classification (Flammable Gases, Vapors or Mists)				Class II Area Classification (Combustible Dusts)			
North America		Europe - ATEX (Category G - Gases)		North America		Europe - ATEX (Category D - Dusts)	
Division 1 Explosion Proof	Division 2 TEFC & TENV	Zone 1 Flameproof	Zone 2 Non-Sparking	Division 1 Explosion Proof	Division 2	Zone 21 Flameproof	Zone 22 Non-Sparking
Group A <sup>①</sup>	Group A	Contact Marathon Electric for ATEX Zone 1 capabilities	Group IIC, Category G	-	-	-	-
Group B <sup>②</sup>	Group B		Group IIC, Category G	-	-	-	-
Group C	Group C		Group IIB, Category G	-	-	-	-
Group D	Group D		Group IIA, Category G	-	-	-	-
-	-	-	-	Group E <sup>①</sup>	-	Category D	Category D
-	-	-	-	Group F	Group F <sup>①</sup>	Category D	Category D
-	-	-	-	Group G	Group G <sup>①</sup>	Category D	Category D

- Group is not applicable to that Division or Zone, or is not defined.
- ① Group is not available from Marathon Electric.
- ② Contact factory representative for availability.

APPLICATION INFORMATION

## Marathon Electric Hazardous Duty Motor Temperature Code Chart

	TEMPERATURE CODES		Division 1 Explosion Proof/Zone 1 Flameproof		Division 2/Zone 2 Non-Sparking
			Class I Area Classification (Flammable Gases, Vapors or Mists)	Class II Area Classification* (Combustible Dusts)	Class I Area Classification (Flammable Gases, Vapors or Mists)
Temp.	UL/CSA	ATEX	Division 1/Zone 1	Division 1/Zone 21	Division 2/Zone 2
280°C	T2A	T2(280)	Explosion Proof - Class I, Group D (Group C as noted)		
260°C	T2B	T2(260)			XRI® Severe Duty & IEEE-841 @ 1.15 S.F., Class I, Groups A,B,C,D (Sine wave power)
215°C	T2D	T2(215)			Available through Marathon's Mod Central on Totally Enclosed EPAct, XRI®, XRI® Severe Duty or IEEE-841 @ 1.0 S.F. on PWM VFD, Class I, Groups A, B, C, D
200°C	T3	T3			Available through Marathon's Mod Central on Totally Enclosed EPAct, XRI®, XRI® Severe Duty or IEEE-841 @ 1.0 S.F., Sine wave power Class I, Groups A, B, C, D
165°C	T3B	T3(165)	Explosion Proof - Class I, Group D (Group C as noted), Sine wave or PWM power	Explosion Proof - Class II, Groups F & G, Sine wave or PWM power	
160°C	T3C	T3(160)	Available through Marathon's Mod Central on Explosion Proof - Class I, Group C & D @ 1.0 S.F. - Contact Factory	Available through Marathon's Mod Central on Explosion Proof - Class II, Group F & G @ 1.0 S.F. - Contact Factory	
135°C	T4	T4	ATEX compliant motors	ATEX compliant motors	

\* Class II, Division 2 motors are not available from Marathon Electric.

Division I & II ambient range is -25°C to +40°C

ATEX ambient range is -20°C to +40°C

Consult Marathon Electric for higher ambients.

# Application Information

## INSULATION SYSTEMS

**Class B** – General Purpose motors that employ Class B insulation systems have a total temperature rating of 130°C and maximum allowable temperature rise of 80°C at 1.0 S.F.

**Class F** – Motors with a Class F system have a total temperature rating of 155°C, with a maximum temperature rise of 105°C at 1.0 S.F. Many Marathon Electric designs utilize a Class F system but limit temperature rise to no higher than “B” rise, providing thermal “headroom” for longer insulation life.

**Class H** – Class H insulated motors have a total temperature rating of 180°C and maximum allowable temperature rise of 125°C. All Marathon Electric motors that employ a Class H system are designed to operate between “B” and “F” rise, giving the user a generous thermal cushion.

**“CR200”** – Corona Resistant, 200° rated magnet wire is utilized in numerous general purpose and inverter duty motor designs to extend insulation life under the rigors of steep fronted voltage spikes, common with today’s IGBT inverters. Refer to page 14 for product lines that employ the use of CR200 magnet wire.

Motors with the CR200 insulation system can be operated at up to 475 feet from the drive on 460 volt systems, at 3 KHz carrier frequency. For other voltages and/or carrier frequency combinations, contact a factory representative.

**MAX GUARD®** – All Black Max®, Blue Max®, Blue Chip®, XRI® Severe Duty and XRI®-841 (IEEE841) motors feature the MAX GUARD® insulation system, either in conjunction with Class F or Class H materials. Combining corona-resistant magnet wire (CR200) with our patented “low stress” winding configuration and uncompromising quality standards, MAX GUARD® delivers long, dependable motor life under the adverse thermal and dielectric stresses imposed by IGBT-based variable frequency drives. **MAX GUARD® surpasses the requirements of NEMA MG1-2006, Part 31, Section 4.4.2.**

**460 Volt (or lower) motors equipped with MAX GUARD® can be operated at any distance from the drive and at any carrier frequency. 575 Volt motors can be operated at up to 650 feet cable length at 3 KHz.**

## MOUNTING

Most Marathon Electric motors are designed for horizontal mounting (shaft parallel with ground), unless designed otherwise, such as Vertical P Base motors. As a general rule, a horizontal motor can also be mounted in a vertical shaft down orientation. Horizontal motors should never be mounted in a vertical shaft up orientation without consulting your application engineer, as this practice can cause damage to the motor, which is not covered under warranty. Brakemotors should not be mounted vertically (up or down), unless the brake has been specifically designed for such.

## NEMA SERVICE FACTOR RATINGS

The table below lists the NEMA service factors for single phase, dripproof motors. Totally enclosed and explosion proof motors have 1.0 service factor except where noted.

### Single Phase

#### NEMA SERVICE FACTOR @ RPM LISTED

HP	3600	1800	1200	900
1/12	1.4	1.4	1.4	1.4
1/8	1.4	1.4	1.4	1.4
1/6	1.35	1.35	1.35	1.35
1/4	1.35	1.35	1.35	1.35
1/3	1.35	1.35	1.35	1.35
1/2	1.25	1.25	1.25	1.15
3/4	1.25	1.25	1.15	1.15
1	1.25	1.15	1.15	1.15
1.5 & Up	1.15	1.15	1.15	1.15

## OVERLOAD PROTECTION

There are four choices in protection: manual (inherent type), automatic (inherent type), thermostats, and none. A manual overload must be physically reset to restart the motor. An automatic thermal overload will stop the motor when it is overloaded or overheated and restart it after the motor has cooled down. None means the motor has no protection. Thermostats are embedded in the winding and connected to the motor starter control circuit. Marathon Electric’s standards are normally closed thermostats, one per phase.



**A motor with an automatic reset protector must not be used where automatic restarting (after motor cool-down) would endanger personnel or equipment. Such applications should use a manual reset protector.**

## PHASE/POWER SUPPLY

Is the power supply three phase or single phase? Most home and farm applications require single phase motors, while most factories, large commercial and industrial users require three phase motors. Single phase motors can be used on three phase systems. Three phase motors, however, cannot be operated from single phase systems. Motor damage will result.

## ROTATION

Most motors in this catalog are reversible by electrical reconnection or by physical orientation. Marathon Electric’s standard rotation from the factory for single phase motors is counterclockwise, when viewing the opposite shaft end of the motor

## SPEED/RPM

3600, 1800, and 1200 are the most common 60 HZ synchronous speeds with full load speed equivalents of 3450, 1725, and 1150.

APPLICATION INFORMATION



## Application Information

### TERMINOLOGY

**Ambient Temperature** – Temperature of the medium, such as air, water or earth, into which the heat of the equipment is dissipated.

**Ampere (AMP)** - A measure of the rate of current through the motor.

**Base Speed** – Nameplate rating where the motor will develop rated HP at rated load and voltage. With AC systems, it is commonly the point where 60 Hz is applied to the induction motor.

**Breakaway Torque** – The torque required to start a machine from standstill.

**Breakdown Torque (BDT)** – The maximum torque that an AC motor will develop with rated voltage applied at rated frequency while rotating.

**Cogging** – A condition in which a motor does not rotate smoothly but “steps” or “jerks” from one position to another during shaft revolution. Cogging is most pronounced at low motor speeds and can cause objectionable vibrations in the driven machine.

**Continuous Duty** – The continuous rating is the maximum constant load that can be carried continuously without exceeding established temperature rise limitations under prescribed conditions of load and within the limitations of established standards.

**Definite Purpose Motor** – Any motor design, listed and offered in standard ratings with standard operating characteristics and mechanical construction, for use under service conditions other than usual or for use on a particular type of application (NEMA).

**Duty Cycle** – The relationship between the operating and resting times or repeatable operation at different loads and/or speeds.

**Efficiency** – Ratio of power output to power input indicated as a percentage. In motors, it is the effectiveness with which a motor converts electrical power into mechanical power.

**Frequency** – Number of cycles per second of alternating current 60HZ used primarily in the United States, 50HZ normally used overseas.

**Full Load Torque (FLT)** – The torque necessary to produce rated horsepower at full load speed.

**General Purpose Motor** – This motor has a continuous duty rating and NEMA A or B design, listed and offered in standard ratings with standard operating characteristics and mechanical construction for use under usual service conditions without restriction to a particular application or type of application (NEMA).

**Inertia** – A measure of a body’s resistance to changes in velocity, whether the body is at rest or moving at a constant velocity. The velocity can be either linear or rotational. The moment of inertia ( $WK^2$ ) is the product of the weight ( $W$ ) of an object and the square of the radius of gyration ( $K^2$ ). The radius of gyration is a measure of how the mass of the object is distributed about the axis of rotation.  $WK^2$  is usually expressed in units of lb-ft<sup>2</sup>.

**Intermittent Duty** – A motor that never reaches equilibrium temperature, but is permitted to cool down (to ambient temperature) between operations. For example, a crane, hoist or machine tool motor is often rated for 15, 30 or 60 minute duty.

**Load Sharing** – An application condition in which two or more similar-sized AC Induction motors are mechanically connected to each other and powered from the same inverter. Optimum load sharing is achieved with higher slip (NEMA Design B or C) motors.

**Locked Rotor Current (LRA)** – Steady state current taken from the line with the rotor at standstill, at rated voltage and frequency. This is the current when starting the motor and load across the line.

**Locked Rotor Torque (LRT)** – The minimum torque that a motor will develop at rest for all angular positions of the rotor, with rated voltage applied at rated frequency.

**No Load (Conditions)** – The state of a machine rotating at normal speed under rated conditions, but when no output is required from it.

**Power Factor** – Power factor is the ratio of real power (kW) to total kVA, or the ratio of actual power ( $W$ ) to apparent power (volt-amperes).

**Reactance** – The opposition to the flow of current made by an induction coil or a capacitor. Performance data expresses stator reactance as X1 and rotor reactance as X2.

**Resistance** – The opposition to voltage or current in an electrical circuit. Performance data expresses stator resistance as R1 and rotor resistance as R2.

**Rotor** – The rotating member of a machine with a shaft.

**Service Factor (SF)** – When used on a motor nameplate, a number which indicates how much above the nameplate rating a motor can be loaded intermittently without causing serious degradation (i.e. a motor with 1.15 SF can produce 15% greater torque than one with 1.0 SF, within temperature constraints).

## Application Information

### TERMINOLOGY

**Shock Load** – The load seen by a clutch, brake or motor in a system that transmits high peak loads. This type of load is present in crushers, separators, grinders, conveyors, winches and cranes.

**Slip** – The difference between the speed of the rotating magnetic field (synchronous speed) and mechanical rotational speed (rotor speed) of AC induction motors. Usually expressed as a percentage of synchronous speed.

**Special Purpose Motor** – A motor with special operating characteristics, special mechanical construction, or both, designed for a particular application and not falling within the definition of a general purpose or definite purpose motor (NEMA).

**Speed Range** – The minimum and maximum speeds at which a motor must operate under constant or variable torque load conditions. A 50:1 speed range for a motor with top speed of 1800 RPM means the motor must operate as low as 36 RPM and still operate within specifications.

**Starting Torque** – The torque exerted by the motor during the starting period.

**Stator** – The stationary portion of the magnetic circuit and the associated windings and leads of a rotating machine.

**Synchronous Speed** – The speed of an AC induction motor's rotating magnetic field. It is determined by the frequency applied to the stator and the number of magnetic poles present in each phase of the stator windings. Mathematically, it is expressed as Sync Speed (RPM) = 120 x Applied Frequency (Hz)/Number of Poles per phase.

**Torque** – A turning force applied to a shaft, tending to cause rotation. Torque is normally measured in "pound-feet" and is equal to the force applied times the radius through which it acts.

**Torque-to-Inertia Ratio** – The rated motor torque divided by its rotor inertia. Helps determine a motor's ability to accelerate loads and/or respond to commands from a drive to change speed or direction.

### FORMULAS & CONVERSION FACTORS

$$\text{Torque (lb-ft)} = \frac{\text{HP} \times 5250}{\text{RPM}}$$

$$\text{HP} = \frac{\text{Torque (lb-ft)} \times \text{RPM}}{5250}$$

$$\text{Synchronous RPM} = \frac{120 \times \text{Frequency}}{\# \text{ Poles}}$$

$$\text{Ohms} = \text{Volts} / \text{Amperes} (R = E/I)$$

$$\text{Amperes} = \text{Volts} / \text{Ohms} (I = E/R)$$

$$\text{Volts} = \text{Amperes} \times \text{Ohms} (E = IR)$$

$$\text{Newton-meters (torque)} = 1.3558 \times \text{lb-ft}$$

$$\text{Pound-feet (torque)} = .7376 \times \text{Newton-meters}$$

$$\text{Horsepower} = 746 \text{ watts} (.746 \text{ KW})$$

$$\text{Kilowatts (KW)} = 1.341 \times \text{Horsepower}$$

$$\text{Temperature (}^\circ\text{ Celsius)} = 5/9 \times (^\circ\text{F} - 32)$$

$$\text{Temperature (}^\circ\text{ Fahrenheit)} = (9/5 \times ^\circ\text{C}) + 32$$

# Variable Speed Operation

**Guidelines for Application of General Purpose, Three Phase, Single Speed Motors on Variable Frequency Drives Meets NEMA MG1-2006 Part 30 and Part 31 Section 4.4.2 Unless stated otherwise, motor nameplates do NOT include listed speed range.**

ENCLOSURE	EFFICIENCY	VARIABLE TORQUE	CONSTANT TORQUE								
		ALL FRAMES	56	143-215		254-286		324-365		404-449	
NEMA Motors		ALL POLES	ALL POLES	2-Pole	4&6 Pole	2-Pole	4&6 Pole	2-Pole	4&6 Pole	2-Pole	4&6 Pole
ODP	Standard (EPAAct exempt)	10:1	2:1	2:1	2:1	Contact Engineering					
	EPAAct compliant	10:1	N/A	2:1	2:1	2:1	2:1	Contact Engineering			
	NEMA Premium (XRI)	10:1	N/A	10:1	10:1	10:1	10:1	10:1	10:1	2:1	2:1
TEFC	Standard (EPAAct exempt)	10:1	2:1	2:1	2:1	Contact Engineering					
	EPAAct compliant	10:1	N/A	2:1	10:1	2:1	10:1	2:1	2:1	2:1	2:1
	NEMA Premium (XRI)	10:1	N/A	2:1	20:1	2:1	20:1	2:1	20:1 (1)	2:1	20:1 (1)
TENV	EPAAct compliant	10:1	N/A	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1
	NEMA Premium (XRI)	10:1	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1	1000:1
Washdown TEFC	Standard (EPAAct exempt)	10:1	10:1 (2)	10:1 (2)	10:1 (2)	N/A	N/A	N/A	N/A	N/A	N/A
	EPAAct compliant	10:1	N/A	10:1 (2)	10:1 (2)	N/A	N/A	N/A	N/A	N/A	N/A
Washdown TENV	Standard (EPAAct exempt)	10:1	1000:1	1000:1	1000:1	N/A	N/A	N/A	N/A	N/A	N/A
	EPAAct compliant	10:1	N/A	1000:1	1000:1	N/A	N/A	N/A	N/A	N/A	N/A
Explosion Proof	All efficiency levels	Explosion Proof motors must be properly nameplated with inverter duty information prior to use on VFD. See Marathon catalog pages for specific rating capabilities. Motors with automatic overload protectors cannot be used on VFDs.									
IEC Motors		ALL FRAMES	63-90	100-225							
All Enclosures	All efficiency levels	10:1	20:1	Up to 20:1							

Notes: (1) 324-449T, 4 & 6 Pole XRI motors are rated for 20:1 C.T. with fan modification; otherwise rated for 2:1 C.T. continuous duty, or 20:1 C.T. 60 minute duty at lowest RPM.  
 (2) Washdown TEFC motors are rated for 10:1 C.T. 60 minute duty or 2:1 C.T. continuous duty at lowest RPM. Model numbers beginning with 5K are not suitable for use with Variable Frequency Drives.

## Application Notes

Bearing currents	Marathon Electric recommends that any motors used with Variable Frequency Drives be equipped with suitable means to protect the motor bearings from shaft currents caused by common mode voltages inherent with operation on a non-sinusoidal power supply. Marathon Electric offers several options for motors in non-classified (non-hazardous) locations, including ground brushes, insulated bearings and non-contact shaft grounding rings. For more information on ground brushes and bearing currents, see the VARIABLE SPEED OPERATION section. For installation cost and available options, see the MOD CENTRAL section.
Restricted use	DO NOT APPLY THE FOLLOWING MOTORS ON VARIABLE FREQUENCY DRIVES: Single Phase motors, Motors with inherent overload protection, Multi-Speed motors, Motors with 1.0 Service Factor on sine wave power. Fire Pump motors should not be used with variable frequency power supplies, due to the critical nature of these applications.
Hazardous Locations	Consult with Marathon Electric when applying motors and drives into Hazardous Locations, either Division/Zone 1 or Division/Zone 2 areas. UL and CSA policies prohibit the installation of bearing protection devices, such as shaft grounding brushes, rings or insulated bearings on motors in Hazardous Locations.

## Maximum Cable Lengths from the Motor to Drive

PRODUCT DESCRIPTION	3 kHz CARRIER FREQUENCY (PHASE TO PHASE)*		
	230 VOLT	460 VOLT	575 VOLT
56-326 NEMA, 100-225 IEC Frames	600 ft.	125 ft.	40 ft.
364-5013 NEMA, 250-315 IEC Frames	1000 ft.	225 ft.	60 ft.
Motors with CR <sup>200</sup> Corona Resistant Magnet Wire	1500 ft.	475 ft.	140 ft.
Motors with MAX GUARD <sup>®</sup> insulation system	Unlimited	Unlimited	650 ft.
Form-wound low voltage motors	Unlimited	Unlimited	650 ft.

\* Higher carrier frequencies require shorter cable length to obtain normal (50Khrs) insulation life.

## Standard Motor Insulation Systems

CR200 CORONA-RESISTANT MAGNET WIRE	Max Guard*
microMAX inverter duty	Black Max Vector Duty
"4 - in - 1" Three Phase, C-Face with Removable Base	Blue Max Vector Duty
Standard Three Phase stock Brakemotors	Three Phase PowerWash XT and SXT washdown
Blue Chip Severe Duty Explosion Proof,	Blue Chip XRI Severe Duty
EPAAct Efficiency	Blue Chip XRI-841 (IEEE841 compliant)
	Automotive Duty "T" Frame
	Blue Chip Explosion Proof, XRI Premium Efficiency
	Globetrotter IEC Metric motors

# Variable Speed Operation

## VARIABLE SPEED INFORMATION

Marathon Electric Vector-Duty and Inverter-Duty motors, unless otherwise stated, are rated for continuous operation in a 40°C ambient and for altitudes up to 3300 feet (1000 meters) above sea level. Special application considerations, such as high or low ambient, intermittent ratings, high altitude, duty cycle rated, extended constant horsepower range, special base speed, voltage or frequency, or any other special requirements, should be reviewed by a factory representative.

It is the responsibility of the startup personnel during commissioning of the VFD/motor system to properly tune the drive to the motor for the specific application. The correct voltage boost and volts/hertz settings are application dependent and unique to each motor design. Procedures for these adjustments should be in your VFD user manual. Many Vector Duty and Inverter Duty motors in this catalog are equipped with thermostats; warranty coverage may be denied if they are not properly utilized.

**WARNING** *Power factor correction capacitors should never be installed between the drive and the motor.*



## INVERTER DUTY OR INVERTER RATED

“Inverter Duty” (often called “Inverter Rated”) motors are suitable for use with Variable Frequency Drives, as long as operation is within the application guidelines published in this catalog. In general, Marathon Electric’s three phase, general purpose, NEMA Design B motors are considered “Inverter Duty”, and meet or exceed the requirements of NEMA MG1, Part 30. As required under Federal law, these motors comply with EPCa efficiencies when operating from utility power.

Many of Marathon’s motor product lines have been enhanced to facilitate reliable operation on today’s variable speed drives, including wider constant torque speed range (up to 20:1) and improved insulation systems that withstand voltage spikes common with variable frequency operation.

Inverter Duty (Rated) motors are most often used in 10:1 speed range, variable torque or constant torque applications. A vector control is usually required for operation beyond 10:1 CT.

Refer to “Guidelines for Application of General Purpose, Single Speed Three Phase Motors on Variable Frequency Drives” in this section of this catalog for the allowable speed range and cable length restrictions (from VFD to motor). Additional detail regarding a specific product’s capabilities is available on its catalog page, or by consulting your application engineer.

**VECTOR DUTY** – “Vector Duty” describes a class of motors that are used in conjunction with Open- (without encoder) or Closed-Loop (with encoder) Vector controls, that provide enhanced performance under low speed operating conditions, or in cases where torque (rather than speed) must be controlled. “Vector Duty” motors can be applied to Volts/Hertz (scalar) drives, as well.

Marathon Electric’s “MAX” family, consisting of Blue Max®, Black Max® and microMAX™ motors, have been specifically designed for optimal operation on vector or volts/hertz controls. These motors feature a wide constant torque (up to 2000:1) and/or constant horsepower (up to 4:1) speed range and are performance-matched to all current technology IGBT drives. Vector Duty motors meet or exceed the requirements of NEMA MG1, Part 31, and are equipped with an enhanced insulation system (MAX GUARD® or CR<sup>200</sup>) to provide many years of trouble-free service. Consult the catalog page for each product’s capabilities and features. As these motors are specifically designed for operation through an inverter, they are exempt from EPCa legislation. Model numbers contain the letter “H” in the “Electrical Type” field.

**VARIABLE TORQUE LOADS** – Applications include fans, blowers and centrifugal pumps. Torque varies as the square of the speed, and horsepower as the cube of the speed. Operation below base speed significantly lightens the load on the motor. While most variable torque applications do not require the motor to operate below half speed, the motor is fully capable of operation to zero speed. Operation above base speed significantly adds to the load on the motor; therefore, a factory representative must review applications requiring variable torque above base speed. Refer to the application chart found on page 14 for use of general purpose three phase motors on variable frequency drives. Marathon’s microMAX™, Black Max® or Blue Max® motors are not necessarily required for operation of variable torque loads. A bypass circuit is often employed in Variable Torque applications. If this device is intended to be used, selection of a NEMA Design B motor is recommended, to withstand the inrush current during across-the-line starting.

**CONSTANT TORQUE LOADS** – Applications include conveyors, elevators, hoists, extruders, positive displacement pumps, mixers and converting equipment. Torque remains constant throughout the range of operation, and extra care should be taken in the proper application of motors, especially at very low speeds. Most constant torque applications don’t require operation below 10:1 (i.e. 6 Hz operation on a 60 Hz motor), but an increasing number of applications historically reserved for servo and/or stepper systems are being served with motors capable of operation beyond 20:1, up to 2000:1 (zero speed, constant torque). Refer to the application chart found on page 17 for use of general purpose three phase motors on variable frequency drives.

Continued on next page.

# Variable Speed Operation

## CONSTANT TORQUE LOADS (Cont'd.)

Applications requiring greater than 20:1 C.T. are ideal for microMAX™, Black Max® or Blue Max® motors. These motors provide full rated torque within their listed speed range, without exceeding a Class F temperature rating while under inverter power (many operate at Class B). Ratings in this catalog have been developed, based on extensive testing on IGBT inverters, set at a minimum 3 KHz (or equivalent) carrier frequency.

Vector Duty and Inverter Duty motors from Marathon Electric are designed for operation at 150% of rated load for one minute, up to the base speed of the motor (overload capability declines to 100% as the motor reaches maximum constant HP speed). These motors accommodate constant horsepower operation to 1-1/2 to 2 times base speed, subject to the motor's maximum safe mechanical speed limit. Refer to the Maximum Safe Mechanical Speed Chart, as well as the performance section for each motor's capability.

Motors rated for zero RPM continuous duty (1000:1 or 2000:1) must be powered by vector drives to produce rated torque without overheating. Optimum zero speed and low-speed full torque performance may require a closed loop vector drive (with encoder feedback).

**CONSTANT HORSEPOWER LOADS** – Applications include coil winders, band saws, grinders, and turret lathes. Operation requires the motor to deliver the same horsepower rating, regardless of shaft speed. Torque increases at low speed and decreases at higher speed. Most general purpose motors can deliver constant horsepower up to 1 1/2 times base speed (consult a factory representative to verify performance). However, many constant HP applications require operation to twice base speed, and some, such as coil winders, up to 4 times base speed. microMAX™, Black Max® and Blue Max® motors are designed for 1 1/2 to 2 times base speed, and the Wide CHP motors, found in Marathon's SB371 Catalog, deliver up to 4 times constant horsepower performance.

**BEARING CURRENTS** – As stated in NEMA MG1-31.4.4.3, to protect a motor from inverter-sourced shaft voltages, either both bearings must be insulated or the motor shaft must be effectively grounded. Marathon Electric offers several effective means to protect the bearings from inverter sourced EDM (electrical discharge machining). A Shaft Grounding device is standard in Blue Max® motors, in frame sizes 444T and larger. Insulating the motor bearings will not prevent damage to bearings of a connected load, and insulated couplings should be employed to protect the load. Adding a ground brush to a motor with insulated bearings will divert motor shaft currents and help protect the bearings of the connected load. At this time, UL policy prohibits the use of ground brushes or insulated bearings in Hazardous Locations (Div 1 & 2, Zones 1, 2, 21 & 22).

**MOTOR GROUNDING** - Frames and accessories of all motors must be grounded in accordance with the National Electric Code (NEC) Article 430. Refer to NEC Article 250 for general information on grounding. Proper grounding of

inverter-driven motors is essential to protect personnel and livestock from inverter-sourced common mode voltages, which may reach hazardous levels on the frame of ungrounded or poorly grounded motors.

**LOW INPUT VOLTAGE** – If, due to lower utility supply voltage, the input voltage from the VFD to the motor is lower than the motor's rated voltage, de-rating of the motor's base frequency, horsepower, full load RPM, and constant HP RPM is required. The revised values can be calculated by multiplying by the ratio of the voltage change. For example, to operate a 460 volt motor from an inverter fed by 50 or 60 HZ, 400 volt utility power, the multiplier is 400/460 or 0.87.

The VFD can be reprogrammed to match the new base point values, allowing the motor to provide rated torque at rated current from the new base speed down to its original minimum Constant torque speed. The motor's CHP range will begin at the new base frequency and will be shortened by the same ratio as described above.

**OVERSPEED CAPABILITY** – Maximum safe mechanical speed capability is a function of bearing size and type, lubrication, rotor balancing technique and specifications, air gap, enclosure, frame construction and connection to the driven load. In addition, consideration must be given to ambient noise levels, as operation above base speed will increase motor noise and vibration, and reduce bearing life. Under no circumstances should bearing hub temperature exceed 100°C. Belted loads should not exceed 60 Hz operating RPM by more than 25% (NEMA "TS" shafts are not suitable for belted loads). Due to external cooling fans, TEFC (and Explosion Proof Fan Cooled) motors are limited to 4000 RPM maximum speed.

Marathon Electric, through extensive testing in our state-of-the-art laboratory and in actual field experience, has developed a number of high speed motors whose maximum safe mechanical speed exceeds the values in the table below. The following table depicts maximum safe speed limits for continuous operation, direct-coupled, non-explosion proof motors, and does not imply constant horsepower capability. Please consult a factory representative for requirements beyond those listed, or for intermittent duty limits.

### Maximum Safe Mechanical Speed Limits (ODP, TENV, DPFV OR TEBC ENCLOSURES) 60 Hz base frequency

Frame Size	2-Pole	4, 6 or 8-Pole
56-184	7200	5400
213-256	5400	4200
284-286	5400	3600
324-326	4000	3600
364-365	4000	2800
404-449	3600	2800
5000 Fr	N/A	CALL
6800 Fr	N/A	CALL

VARIABLE SPEED OPERATION



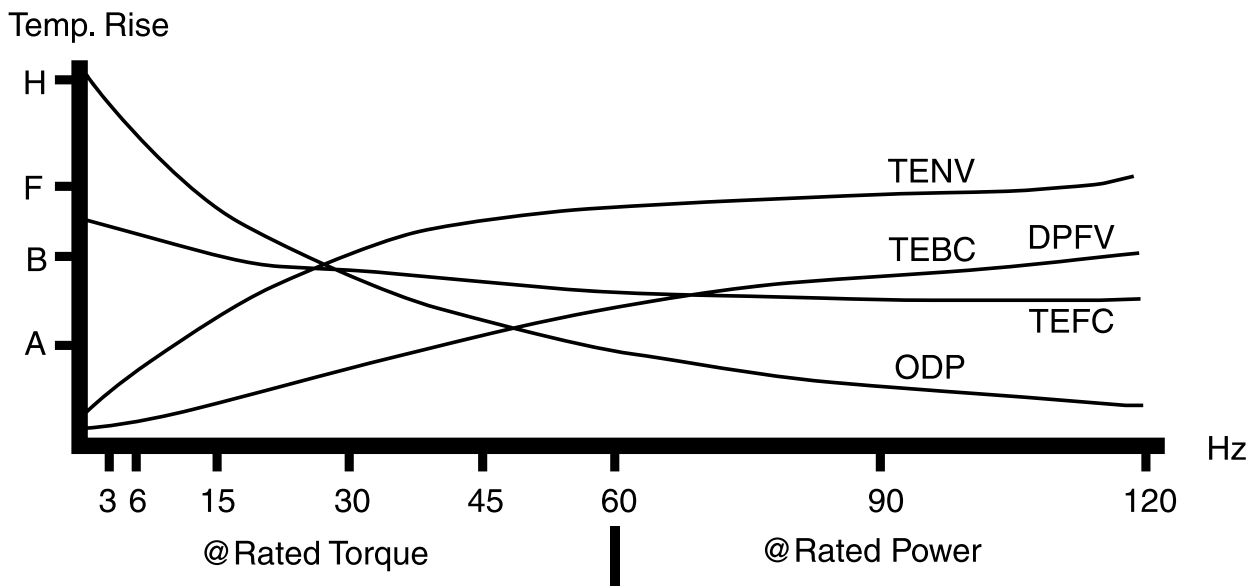
# Variable Speed Operation

## OTHER APPLICATION CONSIDERATIONS –

For proper selection, the following should be considered:

- Horsepower or torque requirements at various speeds.
  - Desired speed range of the load and motor.
  - Acceleration and deceleration rate requirements of the process being controlled.
  - Starting requirements including the frequency of starting and a description of the load (reflected inertia at the motor, load torque during starting).
  - Whether the application is a continuous process or duty cycle of starts, stops and speed changes.
  - A general description of the type of application including the environment in which the VFD system components must operate (determines motor enclosure and/or explosion proof classification).
- Description of the available electrical power supply and wiring.
  - Special performance requirements, if any.
  - Whether the drive will be configured with a by-pass circuit. In case of its deployment, the motor will operate like its fixed speed counterpart and may require a NEMA B design which limits in-rush current, or selection of a larger motor starter or other protective circuitry.
  - Load sharing
  - Mounting and other mechanical considerations

## Typical Temperature Rise Of Various Enclosures



VARIABLE SPEED OPERATION

# General Purpose, Single Phase

## (NEMA Service Factor), Dripproof



### Features:

- Heavy gauge steel frame and base
- Ball bearings (except as noted)
- Economical split phase or capacitor start designs, as noted
- Service Factor, as noted
- UL Recognized and CSA Certified

### Rigid Base

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/6	1800	115	48	AUTO	4349	5KH39QN9537X	★	\$143	F1	3.9	12	8.94	3,4,7,20
1/4	1800	115	48	NONE	4354	5KH39QN9538	★	\$146	F1	5.1	13	8.94	3,4,7,20
	1800	115	48	NONE	H239	5KH33FN6	★	\$197	F1	5.6	13	8.87	3,7,20
	1800	115	48	AUTO	4362	5KH39QN9686X	★	\$151	F1	5.1	13	8.94	3,4,7,20
	1800	115/208-230	48	MANUAL	G078	48C17D2034	★	\$202	F1	5.0/2.3-2.5	17	9.84	2,20
	1800	115/208-230	48	NONE	C147	5KC35JN10	★	\$187	F1	5.2/2.7-2.6	16	9.25	2,7,20
	1800	115/208-230	48	AUTO	C148	5KC35JN10X	★	\$253	F1	5.2/2.7-2.6	16	9.25	2,7,20
	1800	115/230	48	AUTO	C145	5KC35JN8X	★	\$227	F1	5.2/2.6	16	9.57	2,4,7,20
	1500	110/220	48	NONE	C431	5KC36LN18	★	\$275	F1	5.6/2.8	17	9.66	2,7,20,50
1/3	3600	115/208-230	48	NONE	G091	48C34D2025	★	\$161	F1	4.4/2.2-2.2	17	10.09	2,20
	1800	115/208-230	48	NONE	C153	5KC36LN30	★	\$268	F1	6.0/3.2-3.0	18	9.66	2,7,20,68
	1800	115/208-230	48	AUTO	C154	5KC36LN30X	★	\$280	F1	6.0/3.2-3.0	18	9.66	2,7,20,68
	1800	115/208-230	56	NONE	C158	5KC36LN7	★	\$227	F1	6.0/3.2-3.0	18	10.32	2,7,20,68
	1800	100-120/200-240	56	NONE	E253	5KCR46JN0085	★	\$327	F1	4.0-3.8/2.0-1.9	23	10.77	ES,1,20,68
	1800	115/208-230	56	AUTO	C159	5KC36LN7X	★	\$235	F1	6.0/3.2-3.0	18	10.32	2,20,68
	1800	115/208-230	56	MANUAL	G095	56C17D2010	★	\$242	F1	6.4/3.0-3.2	18	10.22	2,20
	1200	115/230	56	NONE	C1252	5KC49PN6070	★	\$338	F1	8.6/4.3	89	11.48	2,20,68
1/2	3600	115/230	48	NONE	G1098	5KC36JN266	★	\$180	F1	7.6/3.8	15	9.66	2,7,19
	3600	115	56	MANUAL	9031	5KC49MN2043Y	★	\$215	F1	11.5	20	11.14	2,17
	3600	115/230	56	MANUAL	C1474	5KC37LN502Y	★	\$265	F1	7.4/3.7	17	10.72	2,17
	3000	110/220	48	NONE	C459	5KC37MN96	★	\$300	F1	7.8/3.9	20	10.06	2,7,19
	1800	115/230	48	NONE	C164	5KC37NN15	★	\$332	F1	9.2/4.6	20	10.40	2,7,19
	1800	110-120/200-240	56	NONE	E262	5KCR46MN0092	★	\$384	F1	5.8-5.6/2.9-2.8	27	10.77	ES,1,19,68
	1800	115/208-230	56	NONE	C167	5KC49GN0010	★	\$253	F1	8.8/4.2-4.4	21	10.38	2,19
	1800	115/230	56	AUTO	C168	5KC49GN0010X	★	\$277	F1	8.8/4.4	21	10.38	2,19
	1800	115/230	56	MANUAL	C169	5KC49GN0010Y	★	\$284	F1	8.8/4.4	31	10.38	2,19
	1200	115/230	56	NONE	C1263	5KC48UN6073	★	\$433	F1	9.4/4.7	34	12.76	2,19
3/4	3600	115/208-230	56	NONE	G915	56C34D2100	★	\$233	F1	9.6/4.4-4.8	21	10.97	2,19
	3600	115	56	MANUAL	9032	5KC49MN2049Y	★	\$249	F1	12.5	27	11.14	2,17
	3600	115/230	56	MANUAL	C1475	5KC37NN501Y	★	\$321	F1	10.2/5.1	18	10.72	2,19
	1800	100-120/200-240	56	NONE	EG271	5KCR49PN0097	★	\$482	F1	9.0-8.8/4.5-4.4	31	11.37	ES,1,19,68
	1800	115/208-230	56	NONE	C175	5KC46LN0153	★	\$317	F1	13.2/6.2-6.6	25	10.78	2,19
	1800	115/230	56	AUTO	C176	5KC46LN0153X	★	\$366	F1	13.2/6.6	24	10.78	2,19
	1800	115/208-230	56	MANUAL	G919	56B17D2010	★	\$346	F1	11.0/5.5-5.5	26	11.47	1,19
	1800	115/208-230	56	MANUAL	C1298	5KC46NN0758Y	★	\$346	F1	11.2/5.8-5.6	26	10.34	2,19
	1800	115/230	56	MANUAL	C177	5KC46LN0153U	★	\$388	F1	13.2/6.6	24	10.78	2,19
	1200	115/230	56	NONE	C178	5KCR49WN6075	★	\$554	F1	12.6/6.3	44	13.96	ES,1,18
1	3600	115/208-230	56	NONE	C179	5KC38RN60	★	\$264	F1	12.4/6.4-6.2	24	11.04	2,19
	3600	115/208-230	56	AUTO	C180	5KC38RN60X	★	\$338	F1	12.4/6.4-6.2	24	11.04	2,19
	3600	115/230	56	MANUAL	9033	5KC49NN2050Y	★	\$285	F1	16.0/8.0	23	11.14	d,2,17
	3600	115/208-230	56	MANUAL	D010	56B34D2029	★	\$285	F1	10.6/5.5-5.3	23	11.72	1,18
	3600	115/230	56	MANUAL	C702	5KC38RN4153Y	★	\$407	F1	12.8/6.5	20	11.04	2,18
	1800	100-120/200-240	56H	NONE	E280	5KCR48UN0104	★	\$343	F1	11.8-11.4/5.9-5.7	39	12.66	ES,1,18
	1800	115/208-230	56	NONE	C181	5KC49PN0161	★	\$343	F1	13.6/6.7-6.8	31	11.38	2,18
	1800	115/208-230	56	AUTO	C182	5KC49PN0161X	★	\$365	F1	13.6/6.6-6.8	31	11.38	2,18
	1800	115/230	56	MANUAL	C1480	5KC49PN0161U	★	\$377	F1	13.6/6.8	31	11.38	2,18
	1800	115/208-230	143T	NONE	C188	5KC49PN0162	★	\$343	S1	13.6/6.7-6.8	31	11.77	2,11,18
	1200	115/230	56H	NONE	C183	5KCR49QN6076	★	\$499	F1	12.6/6.3	54	14.93	ES,1,18
	1200	115/230	182T	NONE	I141	182TCDR17079	★	\$574	S1	15.0/7.5	87	15.72	13,18

SINGLE PHASE

Continued on next page.

# General Purpose, Single Phase

## (NEMA Service Factor), Dripproof

### Rigid Base

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1 1/2</b>	3600	115/208-230	56	NONE	G937	56B34D2026	★	\$352	F1	14.8/8.0-7.4	25	11.72	1,18
	3600	115/230	56	MANUAL	C1477	5KC49PN2144Y	★	\$463	F1	16.8/8.4	29	11.82	2,18
	3600	115/230	56	MANUAL	C704	5KC49PN2521Y	★	\$369	F1	21.3 / 10.6	31	11.91	2,18
	3600	115/208-230	143T	NONE	I101	143TCDR5303		\$366	S1	18.8/9.7-9.4	30	10.99	2,14,18
	1800	115/230	56	NONE	C1299	5KCR48WN0756Y		\$443	F1	13.4/6.7	35	12.45	ES,1,110
	1800	115/208-230	56H	MANUAL	G951	56C17D5308	★	\$443	F1	18.0/9.3-9.0	39	12.44	2,14,18
	1800	115/208-230	56H	NONE	C185	5KCR49SN0068	★	\$408	F1	18.2/9.1-9.1	35	11.90	ES,1,18
	1800	115/208-230	56H	AUTO	C186	5KCR49SN0068X	★	\$424	F1	18.2/9.1	35	11.90	ES,1,18
	1800	115/208-230	145T	NONE	C191	5KCR49SN0065	★	\$415	S1	18.2/9.1-9.1	35	12.30	ES,1,18
	1200	115/230	184T	NONE	I142	184TCDR7076		\$714	S1	23.0/11.5	72	15.72	2,13,18
<b>2</b>	3600	115/230	56	NONE	C187	5KC48TN2169	★	\$424	F1	21.2 / 10.6	38	12.66	2,18
	3600	115/230	56	MANUAL	9035	5KCR48TN2650Y	★	\$462	F1	15.0/7.5	38	12.76	ES,1,17
	3600	115/230	56	MANUAL	C703	5KC49RN2520Y	★	\$579	F1	23.8/11.8	33	11.91	2,18
	3600	115/208-230	145T	NONE	I102	145TBDR5302	★	\$436	S1	19.2/10.5-9.6	35	11.49	1,18
	1800	115/208-230	56HZ	NONE	C193	5KCR49WN0270	★	\$433	F1	22.0/10.9-11.0	44	14.33	ES,1,11,18
	1800	115/208-230	56HZ	AUTO	CG381	5KCR49WN0270T	★	\$556	F1	22.0/10.9-11.0	44	14.33	ES,1,11,18
	1800	115/208-230	145T	MANUAL	I127	145TBDR5337	★	\$531	S1	18.8/10.2-9.4	48	13.49	1,11,18
	1800	115/208-230	182T	NONE	I112A	182TCDW7026	★	\$484	S1	23.0/12.3-11.5	62	13.19	2,13,18
	1200	115/208-230	213T	NONE	I143	213TCDW7076	★	\$887	S1	30.0/15.5-15.0	138	16.55	2,18
	<b>3</b>	3600	230	56	MANUAL	9036	5KCR48UN2653Y	★	\$602	F1	14.5	40	12.64
3600		115/230	145T	NONE	C194	5KCR48TN8062	★	\$610	S1	29.4/14.7	38	13.13	ES,1,18
3600		208/230	145T	NONE	I145	145TBDR5303		\$472	S1	13.5-12.5	40	11.99	1,7,17
3600		115/208-230	182T	NONE	I103	182TCDR7001	★	\$544	S1	32.0/17.5-16.0	70	13.22	d,2,18
3600		115/208-230	182T	NONE	I103A	182TCDW7001	★	\$544	S1	32.0/17.1-16.1	62	13.69	2,13,18
1800		115/208-230	184T	NONE	I113	184TCDR7026	★	\$566	S1	33.0/17.5	78	15.22	d,2,18
1800		115/208-230	184T	NONE	I113A	184TCDW7026	★	\$566	S1	33.5/17.4-16.8	78	14.21	2,13,18
1200		230	215T	NONE	I144	215TBDW7079		\$1,222	S1	16.0	134	18.05	1,18
<b>5</b>	3600	230	56H	MANUAL	D017	56B34D5302	★	\$640	F1	20.0	55	13.94	1,5,18
	3600	208-230	184T	NONE	I104	184TCDR7001	★	\$731	S1	27.0-24.0	79	14.72	d,2,18
	3600	208-230	184T	NONE	I104A	184TBDW17008	★	\$731	S1	24.0-22.0	79	14.69	2,13,18
	1800	208-230	184T	NONE	I114	184TBDR7026	★	\$686	S1	23.5-21.0	87	15.72	d,1,18
	1800	208-230	184T	NONE	I114A	184TBDW7026	★	\$686	S1	23.0-21.0	82	14.71	1,13,18
	1800	208-230	213T	NONE	I117	213TCDW7026		\$934	S1	30.5-28.0	108	16.55	2,18
<b>7 1/2</b>	3600	208-230	184T	NONE	I108A	184TBDW7001	★	\$770	S1	34.0-31.0	103	16.69	1,13,18
	3600	208-230	213T	NONE	I105	213TCDW7001	★	\$1,041	S1	40.0-37.0	105	16.55	2,18,F
	1800	208-230	215T	NONE	I115	215TBDW7026	★	\$1,027	S1	37.2-34.5	115	18.05	1,18
<b>10</b>	3600	208-230	215T	NONE	I106	215TCDW17002	★	\$1,335	S1	51.0-46.0	193	18.05	2,18,F
	1800	208-230	215T	NONE	I116	215TBDW7028	★	\$1,322	S1	49.0-44.0	140	19.30	1,7,18

SINGLE PHASE

### Extended Thru-Bolts, Split Phase - Steel endshields

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/4</b>	1800	115	48Z	NONE	H901	5KH32DNA612	★	\$126	F1	5.1	11	9.83	9,18,28
	1800	115	48Z	AUTO	H902	5KH32DNA612X	★	\$131	F1	5.1	11	9.83	9,18,28
<b>1/3</b>	1800	115	48Z	NONE	H903	5KH32FNA611	★	\$130	F1	5.5	14	9.83	9,18,28
	1800	115	48Z	AUTO	H904	5KH32FNA611X	★	\$135	F1	5.5	12	9.83	9,18,28
<b>1/2</b>	1800	115	56Z	NONE	H905	5KH36JNA769	★	\$153	F1	8.1	16	10.89	10,18,28
	1800	115	56Z	AUTO	H906	5KH36JNA769X	★	\$158	F1	8.1	16	10.89	10,18,28
<b>3/4</b>	1800	115	56Z	NONE	H907	5KH37NNA768	★	\$187	F1	11.2	18	11.29	10,17
	1800	115	56Z	AUTO	H908	5KH37NNA768X	★	\$192	F1	11.2	33	11.29	10,17

# Special Purpose, Single Phase

## (1.0 Service Factor), DripProof



### Features:

- Ball bearings (unless otherwise noted)
- Heavy gauge steel frame and base
- 1.0 Service Factor
- Economical split phase or capacitor start designs
- UL Recognized and CSA Certified

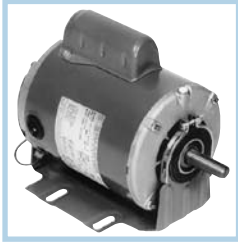
### Rigid Base

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/4	1800	115	48	NONE	4351	5KH39QN9542	★	\$112	F1	5.7	13	8.94	d,3,4,7
	1800	115	48	NONE	S003	48S17D2089	★	\$112	F1	5.7	12	9.09	3,7
	1500	110/220	48	AUTO	H689	5KH35JN603X	★	\$230	F1	5.2/2.6	15	9.23	3,7,50
1/3	1800	115	48	AUTO	4380	5KH39QN9681X	★	\$161	F1	6.2	14	8.94	3,4,7
	1800	115	48	AUTO	S026	48S17D2113	★	\$130	F1	6.6	14	9.34	3,7
	1800	115	48	NONE	4368	5KH39QN9397	★	\$125	F1	6.2	14	8.94	3,4,7
	1800	115	48	NONE	S006	48S17D2090	★	\$125	F1	6.6	14	9.34	3
	1800	115	48	NONE	H229	5KH35HN9	★	\$204	F1	6.8	15	9.25	3,7
	1800	115/230	48	NONE	S010	48C17D2023	★	\$169	F1	7.0/3.5	15	9.34	2
	1800	115/230	48	MANUAL	S030	48C17D2027	★	\$202	F1	7.0/3.5	16	9.34	2
	1800	115/230	48	AUTO	S011	48C17D2024	★	\$177	F1	7.0/3.5	16	9.34	
	1800	230	48	NONE	4373	5KH39QN9543	★	\$176	F1	3.3	14	8.94	3,4,7
	1800	115	48Z	NONE	4376	5KH39QN9547	★	\$168	F1	6.2	15	10.36	3,4,7
	1800	115	56Z	NONE	4372	5KH39QN9546	★	\$172	F1	6.2	15	8.94	3,4,7
	1800	115	56Z	NONE	H676	5KH35GNA229	★	\$204	F1	6.2	14	9.57	3,7
	1800	115/230	56	MANUAL	CG105	5KC35JN27Y	★	\$242	F1	6.6/3.3	16	9.89	d,2
1500	110/220	48	AUTO	H691	5KH36LN488X	★	\$246	F1	7.0/3.5	17	9.66	3,7	
1/2	1800	115	48	NONE	H696	5KH36LNA504	★	\$243	F1	8.3	15	9.68	3,7
	1800	115	56	AUTO	9029	5KC49NN0221X	★	\$219	F1	8.7	20	11.14	2
	1800	115	56	AUTO	S027	56S17D2066	★	\$166	F1	9.2	19	10.22	3
	1800	115	56	NONE	H230	5KH39QN9091	★	\$159	F1	8.3	16	10.32	d,3,4,7
	1800	115	56	NONE	S022	56S17D2046	★	\$159	F1	9.2	17	10.22	3
	1800	115/230	56	NONE	S012	56C17D2098	★	\$208	F1	9.2/4.6	18	10.22	2
	1800	115/230	56	MANUAL	S033	56C17D2064	★	\$242	F1	9.2/4.6	18	10.22	2
	1800	115/230	56	AUTO	S013	56C17D2051	★	\$217	F1	9.2/4.6	18	10.22	2
	1800	115/230	56Z	NONE	CG393	5KC36MN20	★	\$292	F1	8.2/4.1	17	12.30	2
3/4	3600	115/230	48	NONE	CG111	5KC37LN91	★	\$416	F1	11.2/5.6	19	10.06	2,7
	1800	115/230	56	MANUAL	S036	56C17D2067	★	\$284	F1	10.4/5.2	24	11.97	2
	1800	115/230	56	AUTO	S015	56C17D2055	★	\$259	F1	10.4/5.2	24	11.97	2
	1800	115/230	56	NONE	S014	56C17D2054	★	\$249	F1	10.4/5.2	24	11.97	2
1	3600	115/230	56Z	NONE	C449	5KC37NN160	★	\$327	F1	13.4/6.7	20	12.60	2
	1800	115/230	56	MANUAL	S039	56C17D5320	★	\$369	F1	13.6/6.8	27	10.94	2
	1800	115/230	56	AUTO	S038	56C17D5343	★	\$343	F1	13.6/6.8	27	10.94	2
	1800	115/230	56	NONE	S037	56C17D5319	★	\$335	F1	13.6/6.8	28	10.94	2
1 1/2	3600	115/230	56	MANUAL	9034	5KC49NN2044Y	★	\$281	F1	19.0/9.5	29	11.14	2
2	3600	115/230	56	MANUAL	9035	5KCR48TN2650Y	★	\$462	F1	17/8.5	38	12.76	ES,1
3	3600	208-230	145T	NONE	I145	145TBDR5303		\$472	S1	13.5/12.5	40	12.49	1
5	3600	230	56H	MANUAL	9038	5KCR49ZN2151U	★	\$640	F1	21.0	49	15.04	ES,1

SINGLE PHASE

# General Purpose, Single Phase

## (NEMA Service Factor), Dripproof



### Features:

- Ball bearings (except as noted)
- Heavy gauge steel frame and base
- Thermal protection, as noted
- Capacitor start design for high starting torque
- Capacitor start/capacitor run design for higher efficiency, as noted
- 48Y and 48YZ have 48/56 Fr mounting holes
- Service Factor, as noted
- UL Recognized and CSA Certified

### Resilient Base

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/4	1800	115	48	AUTO	CG201	5KC35JN12X	★	\$223	F1	5.2	16	9.57	4,7,20
	1800	115	48	NONE	C200	5KC35JN12	★	\$218	F1	5.2	16	9.57	4,7,20
	1800	115/230	48	NONE	G1114	5KC35JN7	★	\$173	F1	5.2/2.6	16	9.57	4,7,20
	1800	115/230	48	AUTO	G1115	5KC35JN7X	★	\$183	F1	5.2/2.6	16	9.57	4,7,20
	1500	110/220	48	AUTO	C460	5KC36LN19X	★	\$281	F1	5.6/2.8	18	10.00	7,20,50
1/3	3600	115/230	48	AUTO	C208	5KC35FN51X	★	\$237	F1	6.8/3.4	15	9.57	7,20
	1800	100-120/200-240	56	AUTO	E254	5KCR46JN0086X	★	\$337	F1	4.0-3.8/2.0-1.9	25	10.77	ES,1,20,68
	1800	115/208-230	48	NONE	C209	5KC36LN26	★	\$269	F1	6.0/3.2-3.0	18	10.00	7,20,68
	1800	115/208-230	48	AUTO	C210	5KC36LN26X	★	\$284	F1	6.0/3.2-3.0	18	10.00	7,20,68
	1800	115/230	56	AUTO	G135	56C17D2088	★	\$221	F1	6.4/3.2	18	10.22	20
	1800	115/208-230	56	NONE	C215	5KC36LN1	★	\$292	F1	6.0/3.2-3.0	18	10.32	20,68
	1800	115/208-230	56	AUTO	C216	5KC36LN1X	★	\$241	F1	6.0/3.2-3.0	18	10.32	20,68
	1500	110/220	56	AUTO	C457	5KC37NN14T	★	\$341	F1	7.4/3.7	20	10.72	20,50
	1200	115/230	56	NONE	C1258	5KC49PN6051	★	\$396	F1	8.6/4.3	28	11.38	20
	1200	115/230	56	AUTO	C548	5KC49PN6051X	★	\$407	F1	8.6/4.3	28	11.38	20
1/2	3600	115/208-230	48	AUTO	C1152	5KC39QN3220X	★	\$175	F1	8.2/3.9-4.1	19	11.00	7,19
	1800	100-120/200-240	56	AUTO	E263	5KCR46MN0054X	★	\$405	F1	5.8-5.6/2.9-2.8	27	10.77	ES,1,19,68
	1800	115/208-230	56	NONE	B1316	5KC49GN0001	★	\$259	F1	8.8/4.2-4.4	21	10.38	19
	1800	115/208-230	56	AUTO	C1153	5KC49GN0022X	★	\$293	F1	8.6/4.1-4.3	21	10.38	19
	1800	115/208-230	56	AUTO	B317	56C17D2072	★	\$281	F1	8.0/4.1-4.0	20	10.47	CF,19,31
	1800	115/230	56	AUTO	CG223	5KC49GN0001X	★	\$314	F1	8.8/4.4	21	10.38	19
	1800	115/230	56	AUTO	D111	56C17D2079	★	\$263	F1	7.2/3.6	20	10.72	19
	1800	115/230	56	AUTO	G151	56C17D2025	★	\$263	F1	8.6/4.3	24	11.72	19
	1200	115/230	56	NONE	C1264	5KC48UN6052	★	\$564	F1	9.4/4.7	40	12.76	19
	1200	115/230	56	AUTO	C552	5KC48UN6052X	★	\$576	F1	9.4/4.7	36	12.76	19
3/4	3600	115/208-230	48	AUTO	C1154	5KC38NN413X	★	\$322	F1	10.0/4.9-5.0	17	11.00	7,19
	3600	115/208-230	56	AUTO	C1155	5KC38NN410X	★	\$228	F1	10.0/4.9-5.0	17	11.32	19
	1800	100-120/200-240	56	AUTO	EG272	5KCR49PN0098X	★	\$501	F1	9.0-8.8/4.5-4.4	31	11.37	ES,1,17,68
	1800	115/208-230	56	NONE	G156	56B17D2012	★	\$324	F1	11.0/5.5-5.5	26	11.47	1,19
	1800	115/208-230	56	AUTO	C1156	5KC46LN0149X	★	\$353	F1	13.3/6.5-6.6	27	10.78	19
	1800	115/208-230	56	AUTO	B319	56C17D2074	★	\$363	F1	10.0/5.2-5.0	23	11.72	CF,19,31
	1800	115/208-230	56	NONE	CG230	5KC46LN0158	★	\$326	F1	13.2/6.2-6.6	25	10.78	19
	1800	115/208-230	56	NONE	B318	56C17D2073	★	\$337	F1	10.0/5.2-5.0	24	11.72	CF,19,31
	1800	115/208-230	56	AUTO	C138	5KC46JN0002X	★	\$352	F1	11.4/5.6-5.7	23	10.78	19
	1800	115/230	56	AUTO	D1113	5KC46LN0158X	★	\$325	F1	13.2/6.6	25	10.78	19
	1500	110/220	56	AUTO	C1187	5KC49NN0224X	★	\$463	F1	12.2/6.1	28	11.38	19,50
	1200	115/230	56	NONE	CG232	5KCR49WN6007	★	\$652	F1	12.6/6.3	42	13.96	1,18
1	3600	115/208-230	56	AUTO	C1157	5KC39RN383X	★	\$284	F1	13.4/6.7-6.6	25	11.90	19
	3600	115/208-230	56	AUTO	D118	56C34D2106	★	\$266	F1	12.0/6.2-6.0	25	12.22	18
	1800	100-120/200-240	56H	AUTO	E281	5KCR48UN0105X	★	\$526	F1	11.8-11.4/5.9-5.7	40	12.65	ES,1,18,68
	1800	115/208-230	56	AUTO	C1158	5KC49PN0164X	★	\$369	F1	14.7/7.2-7.4	29	11.38	18
	1800	115/208-230	56	NONE	C235	5KC49PN0155	★	\$344	F1	13.6/6.7-6.8	31	11.38	5,18
	1800	115/230	56	AUTO	CG236	5KC49PN0155X	★	\$418	F1	13.6/6.8	30	11.38	18

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# General Purpose, Single Phase

(NEMA Service Factor), Dripproof

## Resilient Base

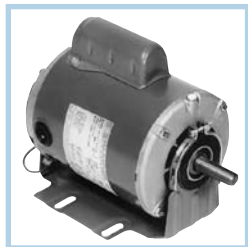
HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1 1/2	3600	115/208-230	56H	AUTO	C1159	5KC49RN2152T	★	\$370	F1	19.6/9.8-9.8	33	12.01	d,18
	3600	115/208-230	56	AUTO	D115	56B34D2027	★	\$370	F1	13.4/7.4-6.7	28	11.72	1,18
	1800	115/208-230	56H	NONE	B336	56C17D5347	★	\$413	F1	18.0/9.3-9.	39	12.85	5,18,32
	1800	115/208-230	56H	AUTO	CG239	5KCR49SN0012X	★	\$491	F1	18.2/9.1	35	11.91	ES,1,5,18
	1800	115/208-230	56H	AUTO	C1160	5KCR49SN0150X	★	\$429	F1	16.4/8.4-8.2	35	11.90	ES,1,18
	1800	115/208-230	145T	NONE	I146	145TCDR5331	★	\$419	S1	18.0/9.3-9.	42	13.22	18,32
2	3600	115/208-230	56H	AUTO	K152	56B34D5320	★	\$450	F1	19.2/10.5-9.6	33	11.85	d,1,5,18
	3600	115/208-230	56H	AUTO	C1161	5KCR49RN2148T	★	\$451	F1	19.6/10.4-9.8	33	11.91	ES,1,5,110
	1800	115/208-230	56H	AUTO	C1162	5KCR49WN0291T	★	\$547	F1	22.0/10.9-11.0	44	13.96	ES,1,5,18
	1800	115/208-230	145T	NONE	I147	145TBDR5345	★	\$440	S1	21/11.3-10.5	49	14.22	1,18

## Two Speed, Variable Torque, Resilient Base

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/2-1/6	1800/1200	115	56	AUTO	C419	5KC49PN3027X	★	\$499	F1	8.2/3.9	28	11.38	19
3/4-1/4	1800/1200	115	56	AUTO	C474	5KCR49PN3011X	★	\$545	F1	9.0/6.4	31	11.48	ES,1,19
	1800/1200	115	56	NONE	C420	5KCR49PN3011	★	\$463	F1	9.0/6.4	31	11.48	ES,1,19
	1800/1200	208-230	56	AUTO	C486	5KCR49PN3012X	★	\$472	F1	4.3-4.4/3.1-3.2	38	11.48	ES,1,19
1 1/3	1800/1200	115	56	AUTO	C1478	5KCR49SN3009X	★	\$601	F1	10.8/7.4	30	12.01	ES,1,18
	1800/1200	115	56	NONE	C475	5KCR49SN3009	★	\$578	F1	10.8/7.4	35	12.01	ES,1,18
	1800/1200	208-230	56	NONE	C476	5KCR49SN3010	★	\$601	F1	5.3-5.4/3.6-3.7	35	12.01	ES,1,18
	1800/1200	208-230/190-220	56H	AUTO	C1479	5KCR48TN3084X	★	\$613	F1	5.3-5.4/3.6-3.7	36	12.54	ES,1,17

# Special Purpose, Single Phase

(1.0 Service Factor), Dripproof



### Features:

- Ball bearings (except as noted)
- Heavy gauge steel frame and base
- 1.0 Service Factor
- Economical split phase or capacitor start designs, as noted
- 48Y and 48YZ have 48/56 Fr mounting holes
- UL Recognized and CSA Certified

## Resilient Base

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/4	1800	115	48	AUTO	S103	48S17D2091		\$125	F1	5.7	13	9.06	3,7,31
	1800	115	48	NONE	S102	48S17D2042	★	\$119	F1	5.7	13	9.06	3,7
	1800	115/230	48	AUTO	S119	48C17D2046	★	\$173	F1	6.2/3.1	13	9.06	2,7
	1800	115/230	48	NONE	S118	48C17D2045	★	\$164	F1	6.2/3.1	14	9.06	2,7
	1800	115	48	NONE	H675	5KH33FNA230	★	\$197	F1	5.0	14	9.19	3,7
	1800	115	48Z	AUTO	S126	48S17D2104	★	\$125	F1	5.3	14	9.72	3,53
	1800	115	56Z	AUTO	4364	5KH39QN5541X	★	\$169	F1	5.7	13	9.19	3,4,7
	1800	115	56Z	NONE	4359	5KH39QN5523	★	\$165	F1	5.7	13	9.19	3,4,7
	1500	220	48	NONE	H645	5KH39QNB810	★	\$223	F1	3.4	14	9.57	3,7,50
	1500	110/220	56Z	AUTO	HG690	5KH35JN602X	★	\$237	F1	5.2/2.6	15	9.51	3,7,50

Continued on next page.

# Special Purpose, Single Phase

## (1.0 Service Factor), Dripproof

### Resilient Base

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/3</b>	1800	115	48	NONE	4369	5KH39QN5508	★	\$139	F1	6.2	14	8.94	3,4,7
	1800	115	48	NONE	S106	48S17D2093	★	\$141	F1	6.5	14	9.31	3,7,31,CF
	1800	115/230	48	AUTO	C129	5KC35JN23X	★	\$183	F1	6.4/3.2	16	9.57	2,4,7
	1800	115/230	48	AUTO	S111	48C17D2029	★	\$183	F1	7.0/3.5	16	9.31	2,7
	1800	115/230	48	NONE	S110	48C17D2028	★	\$173	F1	7.0/3.5	16	9.31	2,7
	1800	115	48	AUTO	4310	5KH39QN5508X	★	\$137	F1	6.2	14	8.94	3,4,7
	1800	115	48Y	AUTO	S127	48S17D2105	★	\$137	F1	6.6	14	9.72	3,53
	1800	115	48	NONE	H674	5KH35JNA231	★	\$212	F1	6.6	15	9.57	3,7
	1800	115	56Z	NONE	4377	5KH39QN5524	★	\$180	F1	6.2	15	9.19	3,4,7
	1800	115	56Z	AUTO	4381	5KH39QN5528X	★	\$184	F1	6.2	15	9.19	3,4,7
	1800	115	56Z	AUTO	4776	5KH39QN5539T	★	\$184	F1	6.2	16	9.19	3,4,7,57
	1800	230	48	NONE	4371	5KH39QN5529	★	\$180	F1	3.3	14	8.94	3,4,7
	1800	230	48	AUTO	4311	5KH39QN5529X	★	\$184	F1	3.3	14	8.93	3,4,7
	1500	110/220	56Z	AUTO	HG692	5KH36LN489X	★	\$254	F1	7.0/3.5	17	9.94	3,50
	1500	220	56Z	NONE	H673	5KH33KN5594	★	\$242	F1	3.5	17	9.19	3,4,7,50
<b>1/2</b>	1800	115	48Z	AUTO	HG710	5KH33JNA511T	★	\$166	F1	7.9	15	9.93	3,9
	1800	115	48Z	AUTO	S128	48S17D2106	★	\$166	F1	9.2	17	10.22	3,53
	1800	115	56	NONE	S120	56S17D2023	★	\$164	F1	9.2	18	10.22	3,31
	1800	115	56Z	AUTO	4778	5KH39QN9639T	★	\$254	F1	8.3	20	9.57	3,7
	1800	115/230	56Z	AUTO	S113	56C17D2099	★	\$221	F1	9.1/4.5	19	10.22	2
	1800	115/230	56	NONE	S112	56C17D2097	★	\$213	F1	9.1/4.5	19	10.22	2
	1800	115/230	48	AUTO	C133	5KC36MN27X	★	\$308	F1	8.2/4.1	19	10.00	2,7
	1800	230	56	AUTO	4602	5KH39QN9518X	★	\$275	F1	4.2	19	10.32	3
	1800	230	56	NONE	4387	5KH39QN9684	★	\$267	F1	4.2	19	10.32	3
	1500	110/220	56	AUTO	H693	5KH46JN0329X	★	\$283	F1	9.2/4.6	23	10.55	3
	<b>3/4</b>	1800	115/230	56	NONE	S114	56C17D2060	★	\$253	F1	10.4/5.2	25	11.97
1800		115	56	NONE	4422	5KH39QN9687	★	\$314	F1	11.2	21	10.72	3
1800		115/230	56	AUTO	C1483	5KC46LN0254X	★	\$263	F1	13.2/6.6	25	10.78	2
1800		115/230	56	AUTO	S115	56C17D2061	★	\$263	F1	10.4/5.2	25	11.97	2
<b>1</b>	1800	115/230	56	AUTO	S117	56C17D5340	★	\$348	F1	13.6/6.8	28	11.35	2
	1800	115/230	56	NONE	S116	56C17D5339	★	\$339	F1	13.6/6.8	29	11.35	2

SINGLE PHASE

# General Purpose, Single Phase

## (NEMA Service Factor), Dripproof



### Features:

- Ball bearings, mechanically locked on shaft end
- Heavy gauge steel frame and base
- Capacitor start design for high starting torque
- Capacitor start/capacitor run design for higher efficiency, as noted
- Service Factor, as noted
- UL Recognized and CSA Certified

### C-Face Footless

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/4	1800	115/208-230	56C	NONE	G212	56C17D2084	★	\$202	F1	5.0/2.3-2.5	17	10.69	20
	1800	115/208-230	56C	AUTO	C354	5KC35JN70X	★	\$265	F1	5.2/2.7-2.6	15	9.61	20
1/3	3600	115/208-230	56C	NONE	G216	56C34D2117	★	\$173	F1	4.4/2.2-2.2	17	10.19	20
	1800	100-120/200-240	56C	NONE	E251	5KCR46JN0084	★	\$390	F1	4.0-3.8/2.0-1.9	23	10.77	ES,1,20,68
	1800	115/208-230	56C	AUTO	C356	5KC36LN83X	★	\$307	F1	6.0/3.2-3.0	16	10.35	20,68
	1800	115/208-230	56C	NONE	C355	5KC36LN83	★	\$237	F1	6.0/3.2-3.0	16	10.35	d,20,68
	1800	115/208-230	56C	NONE	G230	56C17D2085	★	\$237	F1	6.4/3.0-3.2	17	10.69	20
1/2	3600	115/208-230	56C	NONE	G232	56C34D2108	★	\$191	F1	8.4/3.8-4.2	17	10.69	19
	1800	100-120/200-240	56C	NONE	E260	5KCR46MN0091	★	\$445	F1	5.8-5.6/2.9-2.8	25	10.77	ES,1,19,68
	1800	115/208-230	56C	NONE	C358	5KC49GN0009	★	\$279	F1	8.8/4.2-4.4	21	10.38	19
	1800	115/208-230	56C	NONE	G234	56C17D2044	★	\$279	F1	8.6/4.1-4.3	21	11.19	19
	1800	115/230	56C	AUTO	C359	5KC49GN0009X	★	\$348	F1	8.8/4.4	21	10.38	19
	1200	115/208-230	56C	NONE	G278	56C11D5304	★	\$446	F1	10.6/5.1-5.3	32	11.94	19
3/4	3600	115/208-230	56C	NONE	G238	56C34D2101	★	\$245	F1	9.6/4.4-4.8	20	10.94	19
	1800	100-120/200-240	56C	NONE	E269	5KCR49PN0096	★	\$482	F1	9.0-8.8/4.5-4.4	31	11.38	ES,1,19,68
	1800	115/230	56C	AUTO	CG362	5KC46LN0159X	★	\$419	F1	13.2/6.6	24	10.78	19
	1800	115/208-230	56C	NONE	G250	56B17D2011	★	\$342	F1	11.0/5.5-5.5	25	11.72	1,19
1	3600	115/208-230	56C	NONE	G254	56B34D2031	★	\$281	F1	10.6/5.5-5.3	23	11.68	1,19
	1800	100-120/200-240	56C	NONE	E278	5KCR48UN0103	★	\$555	F1	11.8-11.4/5.9-5.7	37	12.65	ES,1,18,68
	1800	115/230	56C	AUTO	CG363	5KC49PN0163X	★	\$468	F1	13.6/6.8	24	11.38	18
	1800	115/208-230	56C	NONE	G256	56C17D5310	★	\$367	F1	13.4/6.8-6.7	29	11.44	18
1 1/2	3600	115/208-230	56C	NONE	G258	56B34D2023	★	\$365	F1	14.2/7.7-7.1	26	11.68	1,18
	1800	115/208-230	56C	NONE	G270	56C17D5311	★	\$427	F1	18.0/9.3-9.0	39	12.44	18
2	3600	115/208-230	56C	NONE	G272	56B34D5319	★	\$447	F1	19.2/10.5-9.6	32	11.44	1,18
	1800	115/208-230	56C	NONE	G274	56B17D5303	★	\$521	F1	21.0/11.3-10.5	47	13.44	1,18
3	3600	115/208-230	182TC	NONE	C173	182TCDR8007		\$598	S1	32.0/17.5-16.0	76	13.96	18
	1800	115/230	184TC	NONE	C174	184TCDR9627		\$584	S1	33.0/16.5	52	15.96	18

SINGLE PHASE

# General Purpose, Single Phase

## (NEMA Service Factor), Dripproof



### Features:

- Ball bearings, mechanically locked on shaft end
- NEMA Service Factors
- Heavy gauge steel frame and base
- Capacitor start design for high starting torque
- Capacitor start/capacitor run design for higher efficiency, as noted
- UL Recognized and CSA Certified

### C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/4</b>	1800	115/208-230	56C	AUTO	K234	56C17D2114		\$217	F1	5.0/2.3-2.5	18	10.30	
<b>1/3</b>	1800	115/208-230	56C	AUTO	K235	56C17D2115	*	\$252	F1	6.4/3.0-3.2	18	10.30	
	1800	100-120/200/240	56C	MANUAL	E250	5KCR46JN0083Y	*	\$303	F1	4.0-3.8/2.0-1.9	24	10.77	ES,1,68
	1800	100-120/200/240	56C	AUTO	E252	5KCR46JN0083X	*	\$252	F1	4.0-3.8/2.0-1.9	23	10.77	ES,1,68
<b>1/2</b>	1800	100-120/200-240	56C	AUTO	E261	5KCR46MN0090X	*	\$293	F1	5.8-5.6/2.9-2.8	27	10.77	ES,1,68
	1800	100-120/200-240	56C	MANUAL	E259	5KCR46MN0090Y	*	\$351	F1	5.8-5.6/2.9-2.8	27	10.77	ES,1,68
<b>3/4</b>	1800	100-120/200-240	56C	AUTO	E270	5KCR49PN0095X	*	\$356	F1	9.0-8.8/4.5-4.4	31	11.37	ES,1,68
	1800	100-120/200-240	56C	MANUAL	E268	5KCR49PN0095Y	*	\$405	F1	9.0-8.8/4.5-4.4	30	11.37	ES,1,68
<b>1</b>	1800	100-120/200-240	56C	MANUAL	EG277	5KCR48UN0102Y	*	\$576	F1	11.8-11.4/5.9-5.7	40	12.65	ES,1,68
<b>2</b>	3600	115/208-230	56C	MANUAL	C1269	5KC49SN2537Y	*	\$600	F1	15.6/8.8-7.8	36	11.34	
<b>3</b>	3600	208-230	56C	MANUAL	C1270	5KC49ZN2539Y	*	\$733	F1	13.0-12.0	41	12.84	



# General Purpose, Single Phase

## Totally Enclosed



### Features:

- Ball bearings
- Heavy gauge steel constructions
- Economical split phase or capacitor start designs, as noted
- Service Factor, as noted
- UL Recognized and CSA Certified

### Rigid Base

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/6	1800	115	48	NONE	H116	5KH32EN66	★	\$227	F1	4.0	15	9.92	3,17
	900	115/230	56	NONE	C248	5KC49PN3036	★	\$591	F1	5.6/2.8	28	12.43	2,17
1/4	1800	115	48	AUTO	HG121	5KH32FN3123X	★	\$249	F1	5.1	15	9.92	3,17
	1800	115	48	NONE	HG120	5KH32FN3123	★	\$238	F1	5.1	15	9.92	3,17
	1800	115/230	48	AUTO	C243	5KC32GN9X	★	\$294	F1	5.4/2.7	17	10.00	2,17
	1800	115/230	48	NONE	C242	5KC32GN9	★	\$281	F1	5.4/2.7	17	10.00	2,17
	1800	230	48	AUTO	H243	5KH32GN68X	★	\$272	F1	2.7	17	9.92	3,17
	1500	110/220	48	NONE	C462	5KC33KN19	★	\$325	F1	5.4/2.7	18	10.17	2,17,50
	1800	115/208-230	56	MANUAL	G314	56C17F2052	★	\$235	F1	4.2/2.1-2.1	20	10.22	2,18
	1800	115/230	56	AUTO	CG251	5KC32GN19X	★	\$306	F1	5.4/2.7	17	10.38	2,17
	1800	115/230	56	NONE	G1312	5KC32GN19	★	\$219	F1	5.4/2.7	16	10.38	2,17
	1200	115/230	56	NONE	G1316	5KC49MN6061	★	\$332	F1	6.2/3.1	27	11.43	2,17
1/3	3600	115	48	AUTO	HG124	5KH33FN85X	★	\$260	F1	6.4	16	10.17	3,17
	3600	115	48	NONE	HG123	5KH33FN85	★	\$252	F1	6.4	16	10.17	3,17
	1800	115/230	56	AUTO	G1331	5KC35MN43X	★	\$255	F1	6.0/3.0	20	10.93	2,18
	1800	115/208-230	56	MANUAL	G332	56C17F2049	★	\$270	F1	6.0/3.0-3.0	20	10.47	2,18
	1800	100-120/200-400	56	NONE	E258	5KCR46JN0089	★	\$392	F1	4.0-3.8/2.0-1.9	25	11.83	ES,1,20,68
	1800	115/230	56	NONE	G1330	5KC35MN43	★	\$245	F1	6.0/3.0	17	10.93	2,18
	1200	115/230	56	NONE	C1333	5KC49PN6062	★	\$374	F1	8.6/4.3	31	12.43	2,18
1/2	3600	115/208-230	56	MANUAL	G393	56C34F5307	★	\$228	F1	8.4/4.0-4.2	22	11.82	2,14,18
	3600	115/230	56	MANUAL	C664	5KC36LN4003Y	★	\$228	F1	8.0/4.0	17	11.36	17,82
	3600	115/208-230	56	NONE	K339	56C34F5327	★	\$213	F1	8.4/4.0-4.2	23	11.82	2,14,18
	1800	100-120/200-240	56	NONE	E267	5KCR46MN0094	★	\$446	F1	5.8-5.6/2.9-2.8	27	11.83	ES,1,19,68
	1800	115/230	56	AUTO	C262	5KC42GN0014X	★	\$293	F1	8.6/4.3	21	11.00	2,18
	1800	115/208-230	56	MANUAL	G339	56C17F2051	★	\$311	F1	8.0/4.0-4.0	23	11.22	2,18
	1800	115/208-230	56	MANUAL	C661	5KC46GN0569Y	★	\$311	F1	9.0/4.5-4.5	44	11.83	18,82
	1800	115/208-230	56	NONE	C261	5KC42GN0014	★	\$276	F1	8.6/4.1-4.3	21	11.00	2,18
	1800	115/230	48	NONE	CG260	5KC37RN35	★	\$361	F1	8.8/4.4	23	11.38	2,17
	1200	115/230	56	NONE	C264	5KC49UN6065	★	\$474	F1	9.4/4.7	40	12.96	2,18
3/4	3600	115/208-230	56	MANUAL	G379	56C34F5309	★	\$277	F1	10.6/5.3-5.3	26	12.32	2,14,18
	3600	115/208-230	56	NONE	G352	56C34F5308	★	\$260	F1	10.6/5.3-5.3	26	12.32	2,14,18
	1800	100-120/200-240	56	NONE	EG276	5KCR49PN0101	★	\$497	F1	9.0-8.8/4.5-4.4	31	12.43	ES,7,19,68
	1800	115/230	56	AUTO	C269	5KC46PN0015X	★	\$359	F1	11.0/5.5	31	11.83	2,17
	1800	115/208-230	56	MANUAL	G356	56C17F5308	★	\$382	F1	11.0/5.4-5.5	29	12.32	2,14,18
	1800	115/208-230	56	NONE	C268	5KC46PN0015	★	\$340	F1	11.0/5.4-5.5	31	11.83	2,18
	1200	115/230	56	NONE	C271	5KCR48WN6066	★	\$566	F1	10.6/5.3	44	13.82	ES,1,17
	1200	115/208-230	143T	NONE	I707	143TBFR5376	★	\$591	S1	11.4/5.8-5.7	42	13.87	1,14,18

SINGLE PHASE

# General Purpose, Single Phase

## Totally Enclosed

### Rigid Base

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1</b>	3600	115/208-230	56	NONE	G359	56C34F5310	★	\$298	F1	12.4/6.7-6.2	30	12.32	2,14,18
	3600	115/230	56	AUTO	C273	5KC49NN2130X	★	\$313	F1	13.0/6.5	29	12.43	2,17
	3600	115/230	56	MANUAL	C663	5KC49NN2419Y	★	\$313	F1	13.2/6.6	29	12.43	19,82
	3600	115/208-230	56	MANUAL	G390	56C34F5311	★	\$313	F1	12.4/6.7-6.2	31	12.32	2,14,18
	3600	115/230	56	MANUAL	C274	5KC49NN2130Y	★	\$313	F1	13.0/6.5	21	12.43	2,17
	1800	115/230	56	MANUAL	C660	5KC49TN0568Y	★	\$400	F1	13.2/6.6	38	12.96	17,82
	1800	115/230	56	NONE	C275	5KC49TN0034	★	\$383	F1	13.2/6.6	38	12.96	2,17
	1800	100-120/200-240	56	NONE	E285	5KCR49UN0108	★	\$571	F1	11.8-11.4/5.9-5.7	40	12.96	ES,1,68
	1800	115/208-230	56	MANUAL	G373	56C17F5311	★	\$400	F1	13.4/6.8-6.7	30	12.82	2,14,18
	1800	115/230	56	AUTO	C276	5KC49TN0034X	★	\$392	F1	13.2/6.6	36	12.96	2,17
1800	115/230	143T	NONE	C295	5KC49TN0033	★	\$400	S1	13.2/6.6	38	13.33	2,17	
<b>1 1/2</b>	3600	115/208-230	56H	MANUAL	G391	56B34F5321	★	\$410	F1	14.2/7.7-7.1	33	12.82	1,5,14,18
	3600	115/230	56	MANUAL	C662	5KC49SN2418U	★	\$410	F1	16.4/8.2	35	12.96	17,82
	3600	115/208-230	56H	NONE	G374	56B34F5320	★	\$382	F1	14.2/7.7-7.1	32	12.82	1,5,14
	3600	115/208-230	143T	NONE	I220	143TBFR5301	★	\$424	S1	14.2/7.7-7.1	33	12.87	1,14,18
	1800	115/208-230	56H	MANUAL	C659	5KCR48WN0566Y	★	\$459	F1	14.5/7.1-7.3	40	13.82	18,82
	1800	115/208-230	56H	MANUAL	G378	56B17F5302	★	\$459	F1	15.2/8.2-7.6	40	13.82	1,5,14,18
	1800	115/208-230	56H	NONE	G1376	5KCR48WN0273	★	\$436	F1	14.5/7.1-7.3	44	13.82	ES,1,5,18
	1800	115/208-230	56H	AUTO	G1377	5KCR48WN0273X	★	\$451	F1	14.5/7.1-7.3	44	13.82	ES,1,5,18
	1800	115/208-230	145T	MANUAL	I201	145TBFR5327	★	\$507	S1	15.2/8.2-7.6	41	13.87	1,14,18
	1800	115/208-230	145T	NONE	C297	5KCR48WN0292	★	\$450	S1	14.5/7.1-7.3	44	14.07	1,18
<b>2</b>	3600	115/230	56	MANUAL	G1392	5KCR49TN2139U	★	\$464	F1	17.8/8.9	38	14.27	ES,1,18
	3600	115/208-230	56H	NONE	K350	56B34F5322	★	\$447	F1	18.0/10.0-9.0	38	13.32	1,5,14,18
	3600	115/208-230	145T	NONE	I221	145TBFR5303	★	\$464	S1	18.0/10.0-9.0	39	13.37	1,14,18
	1800	115/230	145T	NONE	I700	145TBFR5334	★	\$567	S1	18.8/9.4	50	14.87	1,14,18
	1800	115/208-230	182T	NONE	I212	182TBFR5326	★	\$613	S1	20.0/10.8-10.0	52	15.65	F,1,18
<b>3</b>	3600	115/208-230	182T	NONE	I206	182TBFR5301	★	\$714	S1	24.6/13.9-12.3	57	15.81	1,17
	3600	208-230	145T	NONE	I204	145TBFR5301	★	\$632	S1	13.1-11.8	50	14.87	1,14,18
	3600	208-230	145T	MANUAL	I205	145TBFR5302	★	\$680	S1	13.1-11.8	50	14.87	1,14,18
	1800	115/208-230	184T	NONE	I213	184TCFR7726	★	\$731	S1	34.0/17.5-17.0	86	17.86	d,2,14,17
	1800	115/208-230	184T	NONE	I213A	184TBFW17044	★	\$731	S1	28.4/14.8-14.2	72	14.96	1,13,14,17
<b>5</b>	3600	208-230	184T	NONE	I223	184TBFR7701	★	\$912	S1	25.1-22.4	98	17.36	d,1,14,17
	3600	208-230	184T	NONE	I223A	184TBFW7701	★	\$912	S1	22.0-19.8	98	16.49	1,13,14,17
	1800	208-230	184T	NONE	I214A	184TBFW7726	★	\$900	S1	21.5-19.5	103	17.46	1,13,14,18
	1800	208-230	213T	NONE	I216	213TBFW7026	★	\$971	S1	24.5-22.0	106	18.73	1,14,17
<b>7 1/2</b>	3600	208-230	213T	NONE	I224	213TBFW7001	★	\$1,224	S1	36.0-32.0	112	20.23	1,14,17,F
	1800	208-230	215T	NONE	I215	215TBFW7026	★	\$1,195	S1	35.0-30.0	133	21.48	1,14,17
<b>10</b>	3600	208-230	215T	NONE	I225	215TBFW7001	★	\$1,491	S1	44.0-41.5	141	20.23	1,14,17,F
	1800	230	215T	NONE	I217	215TBFW7027	★	\$1,533	S1	41.5	144	21.48	1,14,17

SINGLE PHASE

# General Purpose, Single Phase

## Totally Enclosed



### Features:

- Ball bearings, mechanically locked on shaft end
- Heavy gauge steel constructions
- Suitable for horizontal or vertical mounting
- Economical split phase or capacitor start designs, as noted
- Will accept brake kits, see Accessory section (except as noted)
- Service Factor, as noted
- UL Recognized and CSA Certified

### C-Face Footless

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/6	1800	115	56C	NONE	H244	5KH32EN124	★	\$277	F1	4.0	10	10.30	3,17
1/4	1800	115/230	56C	NONE	G1511	5KC32GN25	★	\$231	F1	5.4/2.7	16	10.30	2,17,24
1/3	3600	115/230	56C	NONE	C1419	5KC33FN31	★	\$205	F1	5.6/2.8	14	10.19	18,24
	1800	100-120/200-240	56C	NONE	E256	5KCR46JN0088	★	\$417	F1	4.0-3.8/2.0-1.9	25	11.84	ES,1,20,24,68
	1800	115/230	56C	NONE	G1513	5KC35MN73	★	\$266	F1	6.0/3.0	19	10.93	2,18
1/2	3600	115/208-230	56C	NONE	G514	56C34F5322	★	\$223	F1	8.4/4.0-4.2	23	11.82	2,18
	3600	115/230	56C	AUTO	C349	5KC36LN166X	★	\$319	F1	7.4/3.7	19	11.36	2,18
	1800	100-120/200-240	56C	NONE	E265	5KCR46MN0093	★	\$468	F1	5.8-5.6/2.9-2.8	27	11.84	ES,1,19,68
	1800	115/230	56C	AUTO	C446	5KC42GN0018X	★	\$375	F1	8.6/4.3	21	11.01	2,18
	1800	115/230	56C	NONE	G1515	5KC42GN0018	★	\$307	F1	8.6/4.3	21	11.01	2,18
	1200	115/230	56C	NONE	C1404	5KC49UN6067	★	\$644	F1	9.4/4.7	40	12.93	2,17
	1200	115/230	56C	NONE	C1422	5KC48UN6072	★	\$603	F1	9.4/4.7	40	12.61	2,19
3/4	3600	115/208-230	56C	NONE	G516	56C34F5323	★	\$273	F1	10.6/5.3-5.3	26	12.32	2,18
	1800	100-120/200-240	56C	NONE	E274	5KCR49PN0100	★	\$517	F1	9.0-8.8/4.5-4.4	31	12.44	ES,1,19,68
	1800	115/230	56C	NONE	G1517	5KC46PN0032	★	\$369	F1	11.0/5.5	31	11.84	2,17
1	3600	115/208-230	56C	NONE	G518	56C34F5324	★	\$309	F1	12.4/6.7-6.2	29	12.32	2,18
	3600	115/230	56C	AUTO	C351	5KC49NN2133X	★	\$407	F1	13.0/6.5	29	12.44	2,18
	1800	100-120/200-240	56C	NONE	EG283	5KCR49UN0107	★	\$593	F1	11.8-11.4/5.9-5.7	40	12.97	ES,1,18,68
	1800	115/230	56C	NONE	G1519	5KC49TN0035	★	\$393	F1	13.2/6.6	36	12.97	2,17
1 1/2	3600	115/230	56C	NONE	C1424	5KC49SN2158	★	\$392	F1	16.4/8.2	35	12.93	2,111
	3600	115/230	56C	AUTO	C855	5KC49SN2156X	★	\$498	F1	16.4/8.2	35	12.93	2,17
	1800	115/208-230	56C	NONE	G1531	5KCR48WN0294	★	\$454	F1	14.5/7.1-7.3	44	13.69	ES,1,18
2	3600	115/208-230	56C	NONE	G533	56B34F5319	★	\$476	F1	18.0/10.0-9.0	38	13.32	1,18
	3600	115/230	56C	AUTO	C466	5KCR49TN2155T	★	\$610	F1	17.8/8.9	38	14.28	1,17

SINGLE PHASE

# General Purpose, Single Phase

## Totally Enclosed



### Features:

- Ball bearings, mechanically locked on shaft end
- Heavy gauge steel constructions
- Suitable for horizontal or vertical mounting
- Economical split phase or capacitor start designs, as noted
- Will accept brake kits, see Accessory section (except as noted)
- Service Factor, as noted
- UL Recognized and CSA Certified

## C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/4</b>	1200	115/230	56C	NONE	C1423	5KC49MN6063	★	\$356	F2	6.2/3.1	27	11.40	
<b>1/3</b>	1800	100-120/200-240	56C	AUTO	E257	5KCR46JN0087X	★	\$434	F1	4.0-3.8/2.0-1.9	23	11.84	ES,1,20,68
	1800	100-120/200-240	56C	MANUAL	E255	5KCR46JN0087Y	★	\$437	F1	4.0-3.8/2.0-1.9	26	11.84	ES,1,20,68
	1800	115/208-230	56C	MANUAL	F131	56C17F5358	★	\$347	F1	6.6/3.1-3.3	23	11.82	2,18
	1800	115/230	56C	NONE	C1405	5KC35MN145	★	\$270	F1	6.0/3.0	17	10.93	2,18
<b>1/2</b>	3600	115/208-230	56C	NONE	C1420	5KC36LN144	★	\$228	F1	7.4/3.7	17	11.36	2,19
	3600	115/230	56C	AUTO	C444	5KC36LN144X	★	\$235	F2	7.4/3.7	25	11.36	d
	1800	100-120/200-240	56C	MANUAL	E264	5KCR46MN0055Y	★	\$484	F1	5.8-5.6/2.9-2.8	29	11.84	ES,1,19,68
	1800	100-120/200-240	56C	AUTO	E266	5KCR46MN0055X	★	\$472	F1	5.8-5.6/2.9-2.8	29	11.84	ES,1,19,68
	1800	115/208-230	56C	MANUAL	F132	56C17F5912	★	\$388	F1	8.8/4.2-4.4	25	11.82	2,18
	1800	115/230	56C	NONE	C375	5KC42GN0066	★	\$311	F1	8.6/4.3	23	11.01	2,18
<b>3/4</b>	1800	100-120/200-240	56C	MANUAL	EG273	5KCR49PN0099Y	★	\$540	F1	9.0-8.8/4.5-4.4	31	12.44	ES,1,19,68
	1800	100-120/200-240	56C	AUTO	E275	5KCR49PN0099X	★	\$530	F1	9.0-8.8/4.5-4.4	31	12.44	ES,1,19,68
	1800	115/208-230	56C	MANUAL	F133	56C17F5913	★	\$451	F1	11/5.4-5.5	29	12.32	2,18
	1800	115/230	56C	NONE	C1425	5KC49PN0283	★	\$374	F1	11.0/5.5	31	12.40	2,17
	1200	115/230	56C	NONE	C1412	5KCR49WN6078	★	\$605	F2	12.6/6.3	44	13.81	d,ES,1
<b>1</b>	3600	115/230	56C	AUTO	C445	5KC49NN2132X	★	\$321	F2	13.0/6.5	29	12.44	d
	1800	100-120/200-240	56C	MANUAL	EG282	5KCR49UN0106Y	★	\$615	F1	11.8-11.4/5.9-5.7	40	12.97	ES,1,18,68
	1800	100-120/200-240	56C	AUTO	EG284	5KCR49UN0106X	★	\$610	F1	11.8-11.4/5.9-5.7	40	12.97	ES,1,18,68
	1800	115/208-230	56C	NONE	C376	5KC49TN0067	★	\$400	F1	13.2/6.7-6.6	38	12.97	2,17
	1800	115/208-230	56C	MANUAL	F134	56C17F5914	★	\$485	F1	13.4/6.8-6.7	31	12.82	2,18
<b>1 1/2</b>	3600	115/208-230	56HCZ	NONE	K631	56B34F5324		\$397	F1	14.2/7.7-7.1	34	12.82	1,18
	1800	115/208-230	56C	MANUAL	F135	56B17F5584	★	\$583	F1	15.2/8.2-7.6	41	13.82	1,5,18
	1800	115/208-230	145TC	NONE	C281	145TBFR5337		\$567	S1	15.2/8.2-7.6	43	13.87	1,18
<b>2</b>	3600	115/208-230	145TC	NONE	C282	145TBFR5305		\$632	S1	16.6/9.1-8.3	42	13.37	1,18
	1800	115/230	56HC	MANUAL	K319	56B17F5319	★	\$598	F1	18.8/9.4	50	14.82	1,5,18
<b>3</b>	3600	208-230	145TC	NONE	C284	145TBFR5306		\$678	S1	13.1-11.8	52	14.87	1,18
	1800	230	184TC	MANUAL	I314	184TBFR7041	★	\$896	S1	13.7	86	17.61	d,1,18
	1800	230	184TC	MANUAL	I314A	184TBFW7041	★	\$896	S1	12.8	86	17.61	1,13,18
<b>5</b>	1800	230	184TC	MANUAL	I315	184TBFR7034	★	\$1,069	S1	21	101	18.72	d,1,17
	1800	230	184TC	MANUAL	I315A	184TBFW7034	★	\$1,069	S1	21	101	18.72	1,13,17

SINGLE PHASE



# General Purpose, Single Phase

## Totally Enclosed,



### Features:

- Double sealed ball bearings, mechanically locked on shaft end
- Heavy gauge steel constructions
- Bolt-on, removable rigid base
- Suitable for horizontal or vertical mounting
- Capacitor start design for high starting torque
- Capacitor start/capacitor run design for higher efficiency, as noted
- 1.15 Service Factor (except as noted)
- Will accept brake kits, see Accessory section (except as noted)
- Will accept drip cover kits, see Accessories section
- UL Recognized and CSA Certified

## C-Face Footed (Removable Base)

HP	RPM	VOLTS	FOUR-N ONE	FRAME LOAD	OVER NO.	CAT. NO.	MODEL	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/4	1200	115/208-230	◆	56C	NONE	G577	56C11F5302	★	\$356	F2	6.8/3.1-3.4	24	11.82	
1/3	1800	115/208-230	◆	56C	NONE	G570	56C17F5320	★	\$277	F2	6.6/3.1-3.3	23	11.82	68
	1200	115/208-230	◆	56C	NONE	G576	56C11F5303	★	\$397	F2	7.8/3.6-3.9	27	12.32	
1/2	3600	115/208-230	◆	56C	NONE	D311	56C34F5301	★	\$235	F2	8.4/4.0-4.2	22	11.82	
	1800	115/208-230	◆	56C	NONE	G571	56C17F5321	★	\$317	F2	8.8/4.2-4.4	24	11.82	68
	1200	115/208-230	◆	56C	NONE	G578	56B11F5303	★	\$484	F2	9.6/4.7-4.8	35	13.32	1,68
3/4	3600	115/208-230	◆	56C	NONE	D312	56C34F5302	★	\$284	F2	10.6/5.3-5.3	27	12.32	
	1800	115/208-230	◆	56C	NONE	G572	56C17F5322	★	\$382	F2	11.0/5.4-5.5	30	12.32	68
	1200	115/208-230	◆	56C	NONE	G579	56B11F5302	★	\$605	F2	11.4/5.8-5.7	39	13.82	1
1	3600	115/208-230	◆	56C	NONE	D313	56C34F5303	★	\$321	F2	11.2/5.7-5.6	30	12.32	
	1800	115/208-230	◆	56HC	NONE	G573	56C17F5323	★	\$406	F2	13.4/6.8-6.7	31	12.82	5,68
1 1/2	3600	115/208-230	◆	56C	NONE	D314	56B34F5326	★	\$404	F2	14.2/7.7-7.1	32	12.82	1
	1800	115/208-230	◆	56HC	NONE	G574	56B17F5305	★	\$466	F2	15.2/8.2-7.6	40	13.82	1,5,68
2	3600	115/208-230	◆	56HC	NONE	D315	56B34F5327	★	\$486	F2	16.6/9.1-8.3	37	13.82	1,5
	1800	115/208-230	◆	56HC	NONE	G575	56B17F5306	★	\$584	F2	20.0/10.8-10.0	51	14.82	1,5,17
3	3600	208-230	◆	56HC	NONE	D316	56B34F5328	★	\$650	F2	13.1-11.8	50	14.82	1,5

# Hazardous Duty™ Division 1 Explosion Proof Class I and II, Groups C (as noted), D, F & G

## Steel Frame, Single Phase



### Features:

- 1.0 Service Factor
- Automatic reset thermal protector
- Meets temperature code T3B
- Economical split phase or capacitor start designs, as noted
- UL Listed File No. E12044
- CSA Certified File No. LR47504

### Resilent Base

HP	RPM	VOLTS	FRAME	GROUP C	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/4	1800	115	56	N	K032	56C17E5302		\$374	F1	4.8	26	11.88	2,N
	1200	115	56	N	K033	56C11G5303	*	\$514	F1	5.4	31	14.46	2,37
1/3	1800	115	56	N	K037	56C17G5308		\$489	F1	6.6	29	13.96	2,37

### Rigid Base

HP	RPM	VOLTS	FRAME	GROUP C	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/12	1800	115	48	N	H454	5KH32ENB168X	*	\$451	F1	1.90	18	9.68	3,N
1/8	1200	115	48	N	HG455	5KH36NNB166X	*	\$511	F1	3.00	23	10.74	3,N
1/6	1800	115	48	N	HG456	5KH35LNB164X	*	\$468	F1	3.30	22	10.31	3,N
	1200	115	56	Y	H891	5KC49LN6386X	*	\$598	F1	3.80	26	12.47	3,N
1/4	3600	115	48	N	HG458	5KH36PNB171X	*	\$484	F1	4.40	24	10.74	3,N
	1800	115/208-230	56	Y	G639	56C17E5314	*	\$446	F1	4.8/2.3-2.4	26	11.97	2,N
	1800	115/230	48	N	C646	5KC36PNB169X	*	\$548	F1	4.2/2.1	25	10.74	2,N
	1200	115	56	Y	C1801	5KC49MN6384X	*	\$713	F1	5.6	34	13.94	2
	1200	115/208-230	56	Y	G650	56C11G5306	*	\$597	F1	6.8/3.1-3.4	28	13.94	2
1/3	1800	115/208-230	56	Y	C1804	5KC49HN0713X	*	\$509	F1	6.6/3.1-3.3	27	13.44	d,2
	1800	115/208-230	56	Y	G651	56C17G5315	*	\$509	F1	6.6/3.1-3.3	27	13.44	2
	1500	110/220-230	56	Y	C1803	5KC49HN0719X	*	\$603	F1	6.8/3.1-3.4	31	13.44	2
	1200	115/208-230	56	Y	G652	56C11G5307	*	\$641	F1	7.8/3.6-3.9	31	13.94	2
1/2	3600	115/208-230	56	Y	C1806	5KC49HN2508X	*	\$458	F1	8.4/4.0-4.2	26	13.44	d,2
	3600	115/208-230	56	Y	G653	56C34G5308		\$458	F1	8.4/4.0-4.2	26	13.44	2
	1800	115/208-230	56	Y	G654	56C17G5316	*	\$556	F1	8.8/4.2-4.4	27	13.94	2
	1500	110/220-230	56	Y	C1807	5KC49QN0716X	*	\$618	F1	8.4/4.2-4.4	33	14.44	2
	1200	115/208-230	56	Y	C1809	5KC49SN6375X		\$739	F1	9.4/4.7-5.0	39	14.94	2
	1200	115/208-230	56	Y	G655	56B11G5301	*	\$739	F1	9.6/4.7-4.8	39	14.94	1
3/4	3600	115/208-230	56	Y	G656	56C34G5309		\$516	F1	10.6/5.3-5.3	31	13.94	2
	1800	115/208-230	56	Y	C1810	5KC49QN4559X	*	\$624	F1	11.0/5.4-5.5	38	14.44	d,2
	1800	115/208-230	56	Y	G657	56C17G5317	*	\$624	F1	11.0/5.4-5.5	33	14.44	2
1	3600	115/208-230	56	Y	G658	56C34G5310		\$557	F1	12.4/6.7-6.2	40	14.44	2
	1800	115/208-230	56	Y	G659	56C17G5318	*	\$652	F1	13.4/6.8-6.7	34	14.44	2

EXPLOSION PROOF

# Hazardous Duty™ Division 1 Explosion Proof Class I and II, Groups C, D, F & G

## Steel Frame, Single Phase



### Features:

- 1.0 Service Factor
- Automatic reset thermal protector
- Meets temperature code T3B
- 56CZ frame motors have 2-1/4 x 5/8 shaft dimensions
- Capacitor start design for high starting torque
- Explosion proof conduit box included, shipped loose
- UL Listed File No. E12044, MC228275
- CSA Certified File No. LR47504, MC236833

### C-Face Footless

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/4</b>	1800	115/208-230	56C	G852	56C17E5319	★	\$463	F1	4.8/2.3-2.4	22	11.97	
	1200	115	56CZ	C1818	5KC49MN6379X	★	\$667	F1	5.6	34	14.30	
<b>1/3</b>	1800	115/208-230	56C	G853	56C17G5320	★	\$522	F1	6.6/3.1-3.3	27	13.44	
<b>1/2</b>	3600	115/208-230	56C	C1813	5KC49HN2510X	★	\$470	F1	8.4/4.0-4.2	27	13.44	d
	3600	115/208-230	56C	G854	56C34G5311	★	\$470	F1	8.4/4.0-4.2	26	13.44	
	3600	115/208-230	56J	C1814	5KC49HN2509X	★	\$690	F1	8.4/4.0-4.2	27	13.95	15
	1800	115/208-230	56C	G855	56C17G5321	★	\$568	F1	8.8/4.2-4.4	28	13.94	
	1200	115	56CZ	C1817	5KC49SN6380X	★	\$850	F1	8.0	47	15.30	
<b>3/4</b>	1800	115/208-230	56C	C1816	5KC49QN0718X	★	\$636	F1	11.0/5.4-5.5	27	14.44	d
	1800	115/208-230	56C	G857	56C17G5322	★	\$636	F1	11.0/5.4-5.5	33	14.44	
<b>1</b>	3600	115/208-230	56C	G858	56C34G5316	★	\$570	F1	12.4/6.2-6.7	34	14.44	
	1800	115/208-230	56C	G870	56C17G5323	★	\$664	F1	13.4/6.8-6.7	34	14.44	

### C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/3</b>	1800	115/208-230	56C	G871	56C17G5324	★	\$501	F1	6.6/3.1-3.3	37	13.44	
<b>1/2</b>	1800	115/208-230	56C	G872	56C17G5328	★	\$573	F1	8.8/4.2-4.4	29	13.94	
<b>3/4</b>	3600	115/208-230	56C	G873	56C34G5314	★	\$533	F1	10.6/5.3-5.3	30	13.94	
	1800	115/208-230	56C	G874	56C17G5326	★	\$641	F1	11.0/5.4-5.5	34	14.44	
<b>1</b>	3600	115/208-230	56C	G875	56C34G5315	★	\$576	F1	12.4/6.7-6.2	34	14.44	
	1800	115/208-230	56C	G876	56C17G5327	★	\$680	F1	13.4/6.8-6.7	35	14.44	

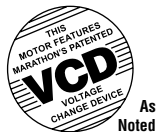
EXPLOSION PROOF

# General Purpose, Three Phase

## Dripproof, Rigid Base



### Features:



- **EISA compliant efficiencies, as noted**
- Ball bearings (except where noted)
- NEMA Service Factors
- Will accept C-Face Kits except where noted, see Accessories Section
- UL Recognized and CSA Certified
- See XRI® Dripproof in Premium Efficiency section for NEMA Premium efficiencies



Suitable for use on VFD per guidelines on page 17.

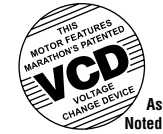
HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C-FACE KITS
<b>1/4</b>	1800	208-230/460	48	NONE	G044	48T17D2000	★	\$195	F1	62.0	1.2-1.3/65	13	9.34	d,25,68	N/A
<b>1/3</b>	3600	208-230/460	48	NONE	K113	5K35FN2	★	\$187	F1	61.0	1.5-1.8/0.9	14	9.25		N/A
	1800	208-230/460	48	NONE	K527	5K35JN198	★	\$227	F1	66.5	1.5-1.6/0.8	15	9.25		N/A
	1800	200-208	56	NONE	G046	56T17D2128		\$227	F1	67.0	1.8-1.9	15	9.97	25	N/A
	1800	208-230/460	56	NONE	G047	56T17D2095	★	\$227	F1	67.0	1.5-1.6/0.8	15	9.97	25,68	N/A
	1200	208-230/460	56	NONE	G061	56T11D5301		\$309	F1	62.0	1.9-2.2/1.1	19	9.94	68	A435
<b>1/2</b>	3600	208-230/460	56	NONE	K027	56T34D5300		\$207	F1	66.0	2.1-2.2/1.1	20	10.44	68	A435
	3600	208-230/460	48	NONE	K115	5K36JN2	★	\$207	F1	69.8	2.0-2.0/1.0	16	9.68		N/A
	1800	200-208	56	NONE	G062	56T17D2114	★	\$255	F1	70.0	2.5-2.65	17	10.47	25	N/A
	1800	208-230/460	56	NONE	G063	56T17D2094	★	\$262	F1	70.0	2.1-2.2/1.1	17	10.47	25,68,CF	N/A
	1800	208-230/460	56	NONE	K116	5K42HN4106	★	\$254	F1	74.7	2.3-2.2/1.1	19	10.05	19	A534
	1800	208-230/460	56	NONE	E12D4	5KS49HN4077	★	\$369	F1	76.9	1.8-1.8/0.9	20	10.38	ES	A534
	1800	208-230/460	56	AUTO	G905	56T17D5336	★	\$316	F1	68.0	2.3-2.4/1.2	21	10.44	VC,68	A435
	1800	575	56	NONE	G065	56T17D2112	★	\$255	F1	70.0	0.9	17	10.47	25	N/A
	1500	220/380	56	NONE	K318	5K42JN4163	★	\$352	F1	66.7	3.0/1.7	21	10.05	50	A534
	1200	208-230/460	56	NONE	G067	56T11D5302	★	\$342	F1	68.0	2.4-2.7/1.35	23	10.44	68	A435
	900	208-230/460	143T	NONE	H180	143TTDR5401		\$416	E6	64.0	2.9-3.0/1.5	32	11.49	5,13	A436
<b>3/4</b>	3600	208-230/460	56	NONE	G080	56T34D5301	★	\$231	F1	74.0	3.0-3.2/1.6	21	10.44	68	A435
	1800	200-208	56	NONE	G082	56T17D2111	★	\$285	F1	75.5	3.2-3.3	21	10.97	25	N/A
	1800	208-230/460	56	NONE	G084	56T17D2093	★	\$305	F1	75.5	2.7-2.8/1.4	20	10.97	25,68,CF	N/A
	1800	208-230/460	56	NONE	K119	5K46KN4071	★	\$295	F1	74.3	3.3-3.0/1.5	24	10.78	19	A534
	1800	208-230/460	56	AUTO	G908	56T17D5339	★	\$346	F1	75.5	2.9-3.0/1.5	22	10.44	68	A435
	1800	200-230/460	56	NONE	E34D4	5KS46MN4078	★	\$414	F1	79.2	2.5-2.4/1.2	24	10.78	ES,68	A534
	1800	575	56	NONE	G086	56T17D2110	★	\$285	F1	75.5	1.1	20	10.97	25	A435
	1200	208-230/460	56	NONE	G088	56T11D5303	★	\$353	F1	74.0	3.1-3.2/1.6	25	10.94	d,68	A435
	1200	208-230/460	143T	NONE	H150	143TTDR5376	★	\$321	E6	74.0	3.1-3.2/1.6	29	10.99	5,68	A436
	900	208-230/460	145T	NONE	H181	145TTDR5401	★	\$472	E6	72.0	4.0-4.0/2.0	42	12.99	68	A436
<b>1</b>	3600	208-230/460	56	NONE	K000	56T34D5302	★	\$263	F1	74.0	3.7-3.7/1.85	23	10.44		A435
	1800	200	143T	NONE	<b>E901</b>	143TTDR5348	★	\$297	E2	82.5	3.6	40	12.49	5,13	A436
	1800	200-208	56	NONE	K003	56T17D2113	★	\$293	F1	76.5	3.9-4.1	23	11.47	25	N/A
	1800	200-208	143T	NONE	H601	143TTDR5327	★	\$263	E6	77.0	4.15-4.3	27	10.99	d,5,13	A436
	1800	200-208	143T	AUTO	<b>U416</b>	143TTDR4061	★	\$423	E2	82.5	3.6-3.43	39	12.49	5,13	A436
	1800	208-230/460	56	NONE	K004	56T17D2092	★	\$310	F1	76.5	3.4-3.4/1.7	23	11.47	25,68,CF	N/A
	1800	208-230/460	56	NONE	K122	5K46MN4072	★	\$300	F1	79.2	3.6-3.8/1.9	27	10.78	19	A534
	1800	208-230/460	56	NONE	K2069	5KE49PN4594	★	\$417	F1	82.5	3.2-3.1/1.55	30	11.38		A534
	1800	208-230/460	56	AUTO	G921	56T17D5342	★	\$353	F1	77.0	3.5-3.6/1.8	24	10.94	VC,68	A435
	1800	208-230/460	56HZ	AUTO	K063	56T17D3301	★	\$375	F1	77.0	3.5-3.6/1.8	27	10.99	Z,5,68	A435
	1800	208-230/460	56HZ	AUTO	K067	56T17D3305		\$389	F1	77.0	3.5-3.6/1.8	27	10.99	VC,Z,5,68	A435
	1800	208-230/460	143T	NONE	E715	143TTDR5347	★	\$297	E2	82.5	3.3-3.1/1.55	39	12.49	d,5,13,68	A436
	1800	208-230/460	143T	AUTO	U417	143TTDR4052	★	\$423	E2	82.5	3.3-3.1/1.55	39	12.49	d,5,13,68	A436
	1800	208-230/460	143T	AUTO	<b>U417A</b>	143TTDR6052	*	\$495	E2	85.5	3.2-3.0/1.5	45	12.99	5,13,68	A436
	1800	208-230/460	143T	AUTO	U418	143TTDR4051	★	\$440	E2	82.5	3.3-3.1/1.55	38	12.49	d,VC,5,13,68	A436
	1800	208-230/460	143T	AUTO	<b>U418A</b>	143TTDR6051	*	\$515	E2	85.5	3.2-3.0/1.5	45	12.99	VC,5,13,68	A436
	1800	575	56	NONE	K049	56T17D2130	★	\$293	F1	76.5	1.4	24	11.47	25	N/A
	1800	575	56HZ	AUTO	K081	56T17D15528		\$375	F1	77.0	1.45	27	10.99	Z,5	A435
	1800	575	143T	AUTO	<b>U922</b>	143TTDR4055		\$423	E2	82.5	1.1	39	12.49	5,13	A436
	1800	575	143T	AUTO	<b>U922A</b>	143TTDR16036		\$495	E2	85.5	1.2	45	12.99	5,13	A436
	1800	575	143T	NONE	<b>E912</b>	143TTDR5351	★	\$297	E2	82.5	1.1	39	12.49	d,5,13	A436
	1200	200	145T	NONE	<b>E785</b>	145TTDR4078		\$389	E2	80.0	4.1	47	13.49	5,13	A436

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

Continued on next page.

# General Purpose, Three Phase

## Dripproof, Rigid Base



THREE PHASE

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C-FACE KITS	
<b>1</b>	1200	208-230/460	56H	NONE	K007	56T11D5304		\$382	F1	75.5	4.1-4.2/2.1	11.44	5.68		A435	
	1200	230/460	145T	NONE	E728	145TTDR4076*		\$389	E2	80.0	3.6/1.8	65	13.49	d,5,13,68	A436	
	1200	575	145T	NONE	E934	145TTDR4080		\$389	E2	80.0	1.4	47	13.49	5,13	A435	
	900	230/460	182T	NONE	<b>H182A</b>	182TTDW7101		\$511	E6	75.8	4.0/2.0	69	12.19	13,d	A666	
<b>1 1/2</b>	3600	200	143T	NONE	E917	14TTDR4005		\$330	E2	82.5	5.5	10.9	5,13	A436		
	3600	208-230/460	56	NONE	K009	56T34D5303 *		\$324	F1	80.0	4.9-5.0/2.5	24	10.44	68	A435	
	3600	208-230/460	143T	NONE	E783	143TTDR5313*		\$330	E2	82.5	4.2-4.2/21	31	10.99	d,5,13,68	A436	
	3600	208-230/460	143T	NONE	<b>E783A</b>	143TTDR6313*		\$452	E2	86.5	4-3.8/1.9	101	12.49	5,13,68	A436	
	3600	575	143T	NONE	<b>E798</b>	143TTDR4006		\$330	E2	82.5	1.9	28	10.99	5,13	A436	
	1800	200	145T	NONE	<b>E902</b>	145TTDR5632*		\$324	E2	84.0	5.0	39	12.49	5,13	A436	
	1800	200-208	145T	NONE	H604	145TTDR5327*		\$289	E6	80.0	5.5-5.9	29	10.99	d,5,13	A436	
	1800	200-208	145T	AUTO	<b>U419</b>	145TTDR4128*		\$450	E2	84.0	5.0-4.9	39	12.49	5,13	A436	
	1800	208-230/460	56H	NONE	K022	56T17D5309 *		\$325	F1	80.0	4.8-4.8/2.4	28	10.94	5,68	A435	
	1800	208-230/460	56H	AUTO	G923	56T17D5344 *		\$386	F1	80.0	4.8-4.8/2.4	27	10.94	VC,5,68	A435	
	1800	208-230/460	56HZ	AUTO	K064	56T17D3302 *		\$398	F1	80.0	4.8-4.8/2.4	30	10.99	Z,5,68	A435	
	1800	208-230/460	56HZ	AUTO	K068	56T17D3306 *		\$408	F1	80.0	4.8-4.8/2.4	33	10.99	VC,Z,5,68	A435	
	1800	208-230/460	145T	AUTO	<b>U420</b>	145TTDR4126*		\$450	E2	84.0	4.6-4.4/2.2	39	12.49	d,5,13,68	A436	
	1800	208-230/460	145T	AUTO	<b>U420A</b>	145TTDR6126*		\$526	E2	86.5	4.4-4.4/2.2	48	12.49	5,13,68	A436	
	1800	208-230/460	145T	AUTO	<b>U421A</b>	145TTDR6127		\$546	E2	86.5	4.4-4.4/2.2	48	12.49	VC,5,13,68	A436	
	1800	575	56H	NONE	K061	56T17D5369 *		\$325	F1	80.0	1.9	27	10.94	5	A435	
	1800	575	145T	NONE	<b>E913</b>	145TTDR5640*		\$324	E2	84.0	1.8	39	12.49	d,5,13	A436	
	1800	575	145T	AUTO	<b>U923</b>	145TTDR4130		\$450	E2	84.0	1.8	39	12.49	5,13	A436	
	1800	575	145T	AUTO	<b>U923A</b>	145TTDR16054		\$553	E2	86.5	1.8	47	12.99	5,13	A436	
	1500	220/380	145T	NONE	K408	5K49SN8050 *		\$456	E2	81.7	4.5/2.6	35	13.59	50	A536	
	1200	200	182T	NONE	<b>E799</b>	182TTDR4083*		\$428	E2	84.0	5.5	75	14.22	d,13,25	N/A	
	1200	200	182T	NONE	<b>E1799</b>	182TTDW4083*		\$428	E2	84.0	7.2	75	12.69	13	A666	
	1200	230/460	182T	NONE	E1729	182TTDW4076*		\$428	E2	84.0	5.6/2.8	59	12.69	d, 13,68	A666	
	900	230/460	184T	NONE	<b>H183A</b>	184TTDW7101		\$620	E6	77.0	5.6/2.8	62	13.19	13	A666	
	<b>2</b>	3600	200	145T	NONE	<b>U905</b>	145TTDR4103		\$389	E2	84.0	6.2	29	10.99	5,13	A436
		3600	208-230/460	56H	NONE	K025	56T34D5304 *		\$382	F1	80.0	6.4-6.2/3.1	24	10.44	5,68	A435
		3600	575	145T	NONE	<b>U906</b>	145TTDR4005		\$389	E2	84.0	2.2	31	10.99	5,13	A436
1800		200	145T	NONE	<b>E903</b>	145TTDR5633*		\$357	E2	84.0	6.7	43	12.99	5,13	A436	
1800		200-208	145T	AUTO	<b>U422</b>	145TTDR4134*		\$485	E2	84.0	6.7-6.6	43	12.99	5,13	A436	
1800		208-230/460	56H	NONE	K041	56T17D5310 *		\$357	F1	81.5	6.2-6.2/3.1	33	11.94	5,68	A435	
1800		208-230/460	56HZ	AUTO	K065	56T17D3303 *		\$427	F1	81.5	6.2-6.2/3.1	35	11.99	Z,5,68	A435	
1800		208-230/460	56HZ	AUTO	K069	56T17D3307 *		\$440	F1	81.5	6.2-6.2/3.1	34	11.99	VC,Z,5,68	A435	
1800		208-230/460	145T	AUTO	<b>U423</b>	145TTDR4132*		\$485	E2	84.0	6.2-5.8/2.9	44	12.99	d,5,13,68	A436	
1800		208-230/460	145T	AUTO	<b>U423A</b>	145TTDR6132		\$568	E2	86.5	6.2-6.0/3.0	56	12.49	5,13,68	A436	
1800		208-230/460	145T	AUTO	<b>U424</b>	145TTDR4133*		\$502	E2	84.0	6.2-5.8/2.9	43	12.99	d,VC,5,13,68	A436	
1800		208-230/460	145T	AUTO	<b>U424A</b>	145TTDR6133		\$588	E2	86.5	6.2-6.0/3.0	56	12.99	VC,5,13,68	A436	
1800		575	56H	NONE	K062	56T17D5370 *		\$357	F1	81.5	2.5	33	11.94	5	A435	
1800		575	145T	NONE	<b>E914</b>	145TTDR5665*		\$357	E2	84.0	2.3	43	12.99	d,5,13	A436	
1800		575	145T	AUTO	<b>U924</b>	145TTDR4136		\$485	E2	84.0	2.3	42	12.99	5,13	A436	
1800		575	145T	AUTO	<b>U924A</b>	145TTDR16059		\$568	E2	86.5	2.4	56	13.49	5,13	A436	
1200		200	184T	NONE	<b>E918</b>	184TTDR4178		\$549	E2	85.5	7.15	89	15.22	13,25	A666	
1200		230/460	184T	NONE	E730	184TTDR4076*		\$549	E2	85.5	6.2/3.1	88	15.22	d,13,25,68	N/A	
900		230/460	213T	NONE	<b>H184A2</b>	213TTDW14102		\$877	E2	85.5	8.0/4.0	142	17.30		A606	
<b>3</b>		3600	200	145T	NONE	<b>E919</b>	145TTDR4003		\$408	E2	84.0	10.0	33	11.49	5,13	A436
	3600	208-230/460	56H	NONE	K048	56T34D5340		\$424	F1	84.0	8.8-8.2/4.1	32	11.44	5	A435	
	3600	208-230/460	145T	NONE	E784	145TTDR5325*		\$408	E2	84.0	8.4-7.6/3.8	37	11.99	d,5,13,68	A436	
	3600	575	145T	NONE	<b>E932</b>	145TTDR4105		\$408	E2	84.0	3.5	33	11.49	5,13	A436	

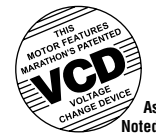
Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

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# General Purpose, Three Phase

## Dripproof, Rigid Base



THREE PHASE

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C-FACE KITS	
<b>3</b>	1800	200	182T	NONE	<b>E1904</b>	182TTDW4027	*	\$418	E2	86.5	10.1	60	12.69	13,25,CF	A666	
	1800	200-208	182T	AUTO	<b>U425</b>	182TTDR4074	*	\$571	E2	86.5	9.9-10.3	62	14.22	d,25,CF	N/A	
	1800	200-208	182T	AUTO	<b>U1425</b>	182TTDW4074	*	\$571	E2	86.5	9.6-9.7	62	12.69	13	A666	
	1800	208-230/460	56HZ	NONE	H803	56T17D5398	*	\$389	F1	84.0	9.2-8.6/4.3	47	13.49	Z,13,68	A435	
	1800	208-230/460	56HZ	AUTO	K066	56T17D3304	*	\$436	F1	84.0	9.2-8.6/4.3	47	13.49	Z,5,68	A435	
	1800	208-230/460	56HZ	AUTO	K080	56T17D3308	*	\$450	F1	84.0	9.2-8.6/4.3	47	13.99	VC,Z,5,68	A435	
	1800	208-230/460	182T	AUTO	U426	182TTDR4156	*	\$571	E2	86.5	8.8-8.6/4.3	63	13.72	d, 25	N/A	
	1800	208-230/460	182T	AUTO	U1426	182TTDW4156	*	\$571	E2	86.5	9-8.8/4.4	61	12.69	d,13	A666	
	1800	208-230/460	182T	AUTO	<b>U426B</b>	182TTDW16049	*	\$668	E2	89.5	8.6-8.0/4.0	72	13.19	13	A666	
	1800	575	182T	NONE	<b>E1915</b>	182TTDW4030	*	\$418	E2	86.5	3.5	60	12.69	d,13	A666	
	1800	575	182T	AUTO	<b>U925</b>	182TTDR4075	*	\$571	E2	86.5	3.5	78	14.22	d, 25	N/A	
	1800	575	182T	AUTO	<b>U925A</b>	182TTDW16082	*	\$668	E2	89.5	3.2	87	14.19	13,25	A666	
	1200	200	213T	NONE	<b>U907</b>	213TTDW4078	*	\$743	E2	86.5	9.65	121	17.30		A606	
	1200	230/460	213T	NONE	<b>E731</b>	213TTDW4076	*	\$743	E2	86.5	8.4/4.2	104	17.30	d,68	A606	
	900	230/460	215T	NONE	<b>H185A</b>	215TTDW14110	*	\$1,096	E2	86.5	10.0/5.0	225	18.55		A606	
<b>5</b>	3600	200	182T	NONE	<b>E933</b>	182TTDR4104	*	\$468	E2	86.5	13.8	74	13.72	25	N/A	
	3600	230/460	145T	NONE	<b>K2004</b>	5KE49QN8360	*	\$590	E2	85.5	12.4/6.2	53	13.62	d,5,17	A535	
	3600	575	182T	NONE	<b>U908</b>	182TTDR4106	*	\$468	E2	85.5	4.8	83	13.72	25	N/A	
	1800	200	184T	NONE	<b>E1905</b>	184TTDW4027	*	\$454	E2	87.5	15.6	79	13.19	13	A666	
	1800	200	184T	NONE	H613	184TTDR7627	*	\$400	E6	85.5	15.1	70	13.72	d,25	N/A	
	1800	200-208	184T	AUTO	<b>U427</b>	184TTDR4153	*	\$647	E2	87.5	15.0/14.4	76	15.22	d,25	N/A	
	1800	200-208	184T	AUTO	<b>U427A</b>	184TTDW4153	*	\$647	E2	87.5	15.0/14.7	77	13.19	13	A666	
	1800	208-230/460	184T	NONE	E1719	184TTDW4026	*	\$454	E2	87.5	14.6-13.2/6.6	75	13.19	d,13,68	A666	
	1800	208-230/460	184T	AUTO	U428A	184TTDW4166	*	\$605	E2	87.5	14.0-13.2/6.6	68	13.19	d,13	A666	
	1800	208-230/460	184T	AUTO	<b>U428B</b>	184TTDW16038	*	\$756	E2	89.5	13.6-12.6/6.3	75	14.19	13,68	A666	
	1800	575	184T	NONE	E1916	184TTDW4030	*	\$454	E2	87.5	5.3	79	13.19	13	A666	
	1800	575	184T	AUTO	<b>U917</b>	184TTDW16041	*	\$647	E2	89.5	5.1	82	14.19	13	A666	
	1200	200	215T	NONE	<b>E935</b>	215TTDW4078	*	\$865	E2	87.5	16.1	145	18.55	13	A606	
	1200	230/460	215T	NONE	E732	215TTDW4076	*	\$865	E2	87.5	14.0/7.0	135	18.55	d,13,68	A606	
	900	230/460	254T	NONE	H186	254TTDX7101	*	\$1,408	E6	82.5	17.0/8.5	133	20.57	d	A612	
900	230/460	254T	NONE	<b>H186A</b>	254TTDX14104	*	\$1,515	E2	87.5	17.6/8.8	133	20.57	22,32	A612		
<b>7 1/2</b>	3600	200	184T	NONE	<b>E937A</b>	184TTDW4003	*	\$606	E2	87.5	20.3	68	14.19	13,25	A666	
	3600	575	184T	NONE	<b>E938</b>	184TTDR4105	*	\$606	E2	87.5	7.0	78	14.72		A666	
	1800	200	213T	NONE	<b>E906</b>	213TTDBA4028	*	\$632	E2	88.5	24.9	114	17.30	13,25	A606	
	1800	200-208	213T	AUTO	<b>U429</b>	213TTDW4070	*	\$921	E2	88.5	22.1-21.2	118	18.04	13	A606	
	1800	208-230/460	213T	AUTO	U430	213TTDW4054	*	\$921	E2	88.5	21.0-19.2/9.6	128	18.05	d,13,68	A606	
	1800	208-230/460	213T	AUTO	<b>U430A</b>	213TTDW16060	*	\$1,078	E2	91.0	21.0-19.2/9.6	135	19.29	13,68	A606	
	1800	575	213T	NONE	<b>E758</b>	213TTDW4030	*	\$632	E2	88.5	7.7	113	17.30	d,13	A606	
	1800	575	213T	AUTO	<b>U926</b>	213TTDW4071	*	\$921	E2	88.5	7.7	118	17.30	d,13	A606	
	1800	575	213T	AUTO	<b>U926A</b>	213TTDW16061	*	\$1,078	E2	91.0	7.7	125	19.29	13	A606	
	1200	230/460	254T	NONE	E733	254TTDX4076	*	\$1,082	E2	88.5	21.4/10.7	147	20.57	d,68	A612	
	900	230/460	256T	NONE	H187	256TTDX7101	*	\$1,790	E6	84.0	26.0/13.0	148	22.32	d	A612	
	900	230/460	256T	NONE	<b>H187A</b>	256TTDN14102	*	\$1,925	E2	88.5	22.0/11.0	162	24.37		N/A	
	<b>10</b>	3600	200	213T	NONE	<b>E939</b>	213TTDW4003	*	\$787	E2	88.5	26.9	120	17.30	13	A606
		1800	200	215T	NONE	<b>E907</b>	215TTDW4028	*	\$811	E2	89.5	28.8	125	17.30	13	A606
		1800	200	215T	NONE	H619	215TTDW7028	*	\$726	E6	87.5	30.5	102	17.30	d	A606
1800		460	215T	AUTO	U431	215TTDW4062	*	\$1,041	E2	89.5	12.5	126	18.04	13	A606	
1800		460	215T	AUTO	<b>U431A</b>	---	*	\$1,218	E2	91.7	11.5	135		13	A606	
1800		575	215T	NONE	<b>E759</b>	215TTDW4030	*	\$811	E2	89.5	10.0	123	17.30	d,13	A606	
1200		230/460	256T	NONE	<b>E734</b>	256TTDX4076	*	\$1,261	E2	90.2	28.0/14.0	178	22.32	d	A612	
900		230/460	284T	NONE	<b>H188A</b>	284TTDN14102	*	\$2,284	E2	89.5	38.5/19.2	328	24.94		A610	
<b>15</b>		3600	200	215T	NONE	<b>E788</b>	215TTDW4003	*	\$1,210	E2	90.2	39.1	120	18.55	13	A606
	1800	200	254T	NONE	<b>E908</b>	254TTDX4028	*	\$1,215	E2	91.0	44.2	208	22.32		A612	
	1800	200	254T	NONE	H622	254TTDX7028	*	\$952	E6	87.5	45.1	143	20.57	d	A612	
	1800	575	254T	NONE	<b>E760</b>	254TTDX4030	*	\$1,215	E2	91.0	15.4	184	22.32		A612	
	1200	230/460	284T	NONE	<b>E735</b>	284TTDP4076	*	\$1,514	E2	90.2	39.0/19.5	328	23.49	d	A610	
	900	230/460	286T	NONE	<b>H189A</b>	286TTDN14101	*	\$3,003	E2	89.5	42.0/21.0	361	26.81		A610	

Blue shaded areas are Cast Iron Frames

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

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# General Purpose, Three Phase

## Dripproof, Rigid Base

THREE PHASE

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C-FACE KITS
20	3600	200	254T	NONE	<b>U900</b>	254TTDX4018		\$1,426	E2	91.0	53.1	214	20.57		A612
	1800	200	256T	NONE	<b>E909</b>	256TTDX4027	*	\$1,484	E2	91.0	60.0	227	22.32		A612
	1800	575	256T	NONE	<b>E761</b>	256TTDX4032	*	\$1,484	E2	91.0	20.8	198	22.32	d	A612
25	3600	200	256T	NONE	H627	256TTDX7024	*	\$1,412	E6	89.5	70.0	360	22.32	d	A612
	3600	200	256T	NONE	<b>E786</b>	256TTDX4013	*	\$1,740	E2	91.0	66.5	200	22.32		A612
	1800	200	284T	NONE	<b>E910</b>	284TTDP4029	*	\$1,723	E2	91.7	70.0	350	23.49		A610
	1800	200	284T	NONE	H628	284TTDP7644	*	\$1,397	E6	88.5	76.0	340	23.49	d	A610
	1800	575	284T	NONE	<b>E762</b>	284TTDP4035	*	\$1,723	E2	91.7	24.4	351	23.49	d	A610
	1200	230/460	324T	NONE	E737	324TTDP4076	*	\$2,640	E2	91.7	66.0/33.0	450	26.00	d,68	A613
	900	230/460	326T	NONE	<b>H191A</b>	326TTDR14105		\$4,283	E2	90.2	73.0/36.5	565	28.50		A613
30	3600	200	284TS	NONE	<b>U901</b>	284TSTDP4004		\$2,076	E2	91.0	83.0	320	22.06		A610
	1800	200	286T	NONE	<b>E911</b>	286TTDP4027	*	\$2,004	E2	92.4	83.0	350	24.99		A610
	1800	200	286T	NONE	H632	286TTDP7641	*	\$1,631	E6	89.5	91.0	367	24.99	d	A610
	1800	575	286T	NONE	<b>E763</b>	286TTDP4034	*	\$2,004	E2	92.4	28.8	285	24.99		A610
	1200	230/460	326T	NONE	<b>E738</b>	326TTDP4076	*	\$3,020	E2	92.4	82.0/41.0	483	27.50	d	A613
40	3600	200	286TS	NONE	<b>U902</b>	286TSTDP4017		\$2,658	E2	91.7	108	460	23.56		A610
	1800	200	324T	NONE	<b>E787</b>	324TTDP4030		\$2,493	E2	93.0	112	542	26.00		A613
	1800	200	324T	NONE	H636	324TTDP7649	*	\$2,034	E6	89.5	122	510	26.00	d	A613
	1800	230/460	324TS	NONE	<b>E789</b>	324TSTDP4032	*	\$2,493	E2	93.0	97.0/48.5	457	24.50	d	A613
	1800	575	324T	NONE	<b>E764</b>	324TTDP4028	*	\$2,493	E2	93.0	39.0	474	26.00		A613
	1200	230/460	364T	NONE	<b>E746</b>	364TTDS4086	*	\$4,226	E2	93.0	105/52.5	718	28.62	d	A216
50	3600	200	324TS	NONE	<b>U909</b>	324TSTDP4006		\$3,158	E2	92.4	135	385	24.50		A613
	1800	200	326T	NONE	<b>E790</b>	326TTDP4046		\$2,906	E2	93.0	142	499	27.50		A613
	1800	230/460	326T	NONE	E727	326TTDC4026	*	\$2,906	E2	93.0	123/61.5	550	27.50	d,68	A613
	1800	230/460	326TS	NONE	E791	326TSTDP4036	*	\$2,906	E2	93.0	123/61.5	495	26.00	d,68	A613
	1800	575	326T	NONE	<b>E765</b>	326TTDP4048	*	\$2,906	E2	93.0	49.0	496	27.50	d	A613
60	3600	200	326TS	NONE	<b>U910</b>	326TSTDP4003		\$3,591	E2	93.0	155	398	26.00		A613
	1800	230/460	364T	NONE	E739	364TTDC4036	*	\$3,562	E2	93.6	142/71.0	797	28.62	d	A216
	1800	230/460	364T	NONE	E1739	364TTDCA4036	*	\$3,562	E2	93.6	2.0	797	31.69	d	A167
	1800	230/460	364TS	NONE	E768	364TSTDC4026	*	\$3,562	E2	93.6	142/71.0	887	26.50	d, 68	A216
	1800	230/460	364TS	NONE	E1768	364TSTDCA4026	*	\$3,562	E2	93.6	2.0	887	29.57	d	A167
	1800	575	364T	NONE	<b>E766</b>	364TTDS4040	*	\$3,562	E2	93.6	57.5	699	28.62	d	A216
	1200	230/460	404T	NONE	E748	404TTDS4086	*	\$5,621	E2	93.6	143/71.5	1135	32.50	d,68	A222
75	3600	230/460	364TS	NONE	E714	364TSTDS4001	*	\$4,787	E2	93.0	183/91.5	740	26.50	d,68	A219
	1800	230/460	365T	NONE	E1740	365TTDCA4036	*	\$4,338	E2	94.1	2.0	997	33.27	d	A167
	1800	230/460	365TS	NONE	E1782	365TSTDCA4026	*	\$4,338	E2	94.1	2.0	979	31.14	d	A167
	1800	575	365T	NONE	<b>E767</b>	365TTDS4041	*	\$4,338	E2	94.1	71.0	730	29.62		A216
1800	575	404T	NONE	<b>U903</b>	404TTDS4042		\$5,532	E2	94.1	94.5	1004	32.50		A222	
125	3600	460	404TS	NONE	E754	404TSTDS4001	*	\$7,381	E2	93.6	142	917	29.50	d,PW	A225
	1800	460	405T	NONE	E742	405TTDS4036	*	\$6,624	E2	94.5	147	1087	34.00	d,PW	A222
	1800	575	405T	NONE	<b>U904</b>	405TTDS4049		\$6,624	E2	94.5	118	1083	34.00		A222
150	3600	460	405TS	NONE	E755	405TSTDS4001	*	\$9,515	E2	93.6	169	1028	31.00	d,PW	A225
	1800	460	444T	NONE	E743	444TTDS4036	*	\$9,566	E2	95.0	176	1335	37.75	d,PW	A228
	1800	575	444T	NONE	<b>U911</b>	444TTDS4069		\$9,566	E2	95.0	141	1321	37.75		A228
200	3600	460	444TS	NONE	E756	444TSTDS4001	*	\$12,437	E2	94.5	225	1310	34.00	d,PW	A231
	1800	575	445T	NONE	<b>U912</b>	445TTDS4070		\$12,085	E2	95.0	186	1447	39.75		A228
250	3600	460	445TS	NONE	<b>E757</b>	445TSTDS4001	*	\$17,697	E2	94.5	279	1406	36.00	PW,68	A231
	1800	460	445T	NONE	<b>E745</b>	445TTDS4037		\$14,420	E2	95.4	287	1561	39.75	PW,RB	A228
	1200	460	447T	NONE	<b>H822A</b>	447TTDN14087		\$15,156	E2	95.4	308	2345	43.25	F,RB,YD,25	N/A
300	3600	460	447TS	NONE	<b>H178</b>	447TSTDN7001	*	\$16,918	E6	95.0	332	1940	39.50	F,YD,68	A293
	1800	460	447TS	NONE	<b>H812</b>	447TSTDN7026	*	\$15,976	E6	95.4	345	1994	39.50	F,YD,68	A293
	1200	460	449T	TSTAT	<b>H820</b>	449TTDN7086		\$16,360	E6	95.4	357	2632	48.25	F,YD,17,25	N/A
350	3600	460	447TS	NONE	<b>H193</b>	447TSTDN7003	*	\$19,379	E6	95.0	385	2013	39.50	F,YD,68	A293
	1800	460	447TS	NONE	<b>H813</b>	447TSTDN7027	*	\$17,363	E6	95.4	400	2064	39.50	F,YD,68	A293
	1200	460	449T	TSTAT	<b>H821A</b>	449TTDN14078		\$23,628	E2	95.4	420	2145	48.25	F,YD,17,25	N/A
400	3600	460	447TS	NONE	<b>H817</b>	447TSTDN7005	*	\$22,049	E6	95.4	440	2150	39.50	F,YD,68	A293
	1800	460	447TS	NONE	<b>H814</b>	447TSTDN7028	*	\$20,152	E6	95.4	450	2220	39.50	F,YD	A293
450	3600	460	449TS	TSTAT	<b>H818</b>	449TSTDN7001	*	\$23,550	E6	95.8	502	2544	44.50	F,YD,68	A293
	1800	460	449TS	TSTAT	<b>H815A</b>	449TSTDN14033	*	\$23,169	E6	95.8	505	2695	44.50	F,YD	A293
500	3600	460	449TS	TSTAT	<b>H819A</b>	449TSTDN14005	*	\$28,591	E6	95.8	546	2737	44.50	F,YD	A293
	1800	460	449TS	TSTAT	<b>H816</b>	449TSTDN7027		\$23,599	E6	95.8	560	2695	44.50	F,YD	A293

Blue shaded areas are Cast Iron Frames

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

# General Purpose, Three Phase

## Dripproof

THREE PHASE



### Features:

- Ball bearings, mechanically locked on shaft end
- NEMA Service Factors
- UL Recognized and CSA Certified



## C-Face Footless

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/4</b>	1800	208-230/460	56C	K247	5K49DN4132	*	\$205	F1	67.4	1.1-1.2/0.6	17	9.52	17,68
<b>1/3</b>	3600	208-230/460	56C	KG215	5K35FN55	*	\$177	F1	61.0	1.5-1.8/0.9	14	9.90	68,115
	1800	208-230/460	56C	K248	5K49FN4138	*	\$237	F1	69.2	1.5-1.6/0.8	20	9.52	68
<b>1/2</b>	3600	208-230/460	56C	K216	5K36JN57	*	\$201	F1	69.8	2.0-2.0/1.0	16	10.31	68,114
	1800	208-230/460	56C	K249	5K42HN4127	*	\$267	F1	74.7	2.3-2.2/1.1	19	9.90	68
	1800	575	56C	G242	56T17D2115	*	\$267	F1	68.0	0.9	17	10.30	
	1200	208-230/460	56C	K1299	5K46MN6018	*	\$353	F1	72.0	2.4-2.7/1.4	23	10.44	68
<b>3/4</b>	3600	208-230/460	56C	G205	56T34D5327	*	\$242	F1	74.0	3.0-3.2/1.6	20	10.44	d,68
	3600	208-230/460	56C	K218	5K37MN37	*	\$242	F1	74.0	2.6-2.6/1.3	17	10.70	48,68,113
	1800	208-230/460	56C	K250	5K46KN4125	*	\$298	F1	74.3	2.7-2.8/1.4	24	10.80	
	1800	575	56C	G243	56T17D2116	*	\$298	F1	75.5	1.1	19	10.80	
	1200	208-230/460	56C	K1300	5K49PN6019	*	\$365	F1	76.1	2.9-2.8/1.4	26	11.38	
	1200	208-230/460	143TC	K1301	5K49PN8020	*	\$416	E6	76.1	2.9-2.8/1.4	31	11.50	d,68
<b>1</b>	3600	208-230/460	56C	K220	5K38PN47	*	\$257	F1	74.0	3.3-3.2/1.6	36	11.30	48,68,112
	1800	208-230/460	56C	K251	5K46MN4126	*	\$284	F1	79.2	3.6-3.8/1.9	24	10.73	
	1800	208-230/460	143TC	K634	5K46MN8423	*	\$334	E6	79.2	3.6-3.8/1.9	27	12.42	d
	1800	208-230/460	143TC	<b>K634A</b>	143TTDR14049	*	\$384	E2	82.5	3.3-3.1/1.55	34	12.49	
	1800	575	56C	G244	56T17D2127	*	\$304	F1	77.0	1.4	23	11.30	
	1200	208-230/460	145TC	C150	145TTDR5377	*	\$441	E6	75.5	4.1-4.2/2.1	31	11.49	d,68
<b>1 1/2</b>	1200	208-230/460	145TC	<b>C150A</b>	---	*	\$475	E2	80.0	3.3-3.1/1.55	43	12.49	68
	3600	208-230/460	56C	K222	5K46KN2173	*	\$335	F1	80.0	5.0-4.8/2.4	24	10.73	48,68,111
	3600	208-230/460	143TC	<b>K2018</b>	5KE49PN8418	*	\$417	E6	82.5	4.4-4.0/2.0	35	11.50	
	1800	208-230/460	56C	K521	5K49PN4120	*	\$336	F1	79.8	5.8-5.6/2.8	31	11.33	
	1800	208-230/460	145TC	K622	5K49RN8424	*	\$383	E6	82.1	5.2/2.6	33	11.95	d
	1800	208-230/460	145TC	<b>K622A</b>	145TTDR14049	*	\$412	E2	84.0	4.6-4.4/2.2	41	12.49	
<b>2</b>	1200	208-230/460	145TC	<b>C162A</b>	145TTDR14087	*	\$497	E2	84.0	5.45-5.4/2.7	51	12.49	68
	3600	208-230/460	145TC	<b>C102A</b>	145TTDR14007	*	\$475	E2	84.0	5.4/2.7	34	10.99	68
	3600	208-230/460	56C	K224	5K49NN2180	*	\$392	F1	80.0	6.0-6.0/3.0	27	11.33	48,68,110
	1800	208-230/460	56C	K644	5K49ZN4611	*	\$369	F1	83.8	6.6-6.4/3.2	49	13.81	
	1800	208-230/460	145TC	C122	145TTDR5341	*	\$413	E6	81.5	6.2-6.2/3.1	34	11.99	d,68
	1800	208-230/460	145TC	<b>C122A</b>	145TTDR4341	*	\$444	E2	84.0	6.2-5.8/2.9	42	11.99	68
	1800	208-230/460	145TC	K2043	5KE49UN8428	*	\$483	E6	84.0	6.4-6.0/3.0	40	12.62	24,68
	1200	230/460	184TC	C152	184TTDR7379	*	\$531	E6	80.0	6.8/3.4	19	14.47	13,68
<b>3</b>	1200	230/460	184TC	<b>C152A</b>	184TTDW14078	*	\$572	E2	85.5	6.8/3.4	28	13.28	13,68
	3600	208-230/460	56C	G289	56T34D5339	*	\$440	F1	84.0	8.9-8.4/4.2	31	11.44	d,68
	3600	208-230/460	56C	K226	5K48TN2182	*	\$440	F1	84.0	8.9-8.4/4.2	38	12.61	18,48,68
	3600	208-230/460	145TC	<b>C103</b>	145TTDR5312	*	\$485	E6	84.0	8.9-8.4/4.2	32	11.49	68
	1800	208-230/460	182TC	C123	182TTDR8067	*	\$494	E6	81.5	9.2-9.0/4.5	67	14.28	d,68
	1800	208-230/460	182TC	C1123	182TTDW8067	*	\$494	E6	82.5	9.2-9.0/4.5	55	12.28	d,13,68
<b>5</b>	1800	208-230/460	182TC	<b>C123B</b>	182TTDW4028	*	\$531	E2	86.5	9-8.8/4.4	63	12.78	13,68
	3600	208-230/460	182TC	C1104	182TTDW8204	*	\$615	E6	82.5	14.6-14.0/7.0	57	13.23	d,13,68
	3600	208-230/460	182TC	<b>C104B</b>	182TTDW14008	*	\$662	E2	85.5	14.0-12.4/6.2	65	13.73	13,68
	1800	208-230/460	184TC	C124A	184TTDW8329	*	\$539	E6	81.1	14.6-13.2/6.6	78	13.28	13,68
<b>7 1/2</b>	1800	208-230/460	184TC	<b>C124B</b>	184TTDW14027	*	\$580	E2	87.5	13.2/6.6	87	13.28	13,68
	3600	208-230/460	184TC	C1105	184TTDW9308	*	\$704	E6	87.0	21.0-19.0/9.5	62	13.78	d,13,68
	3600	208-230/460	184TC	<b>C105B</b>	184TTDW14017	*	\$758	E2	87.5	20.0-17.6/8.8	74	14.28	13,68
	1800	208-230/460	213TC	<b>C125A</b>	213TTDW14057	*	\$767	E2	88.5	21.0-19.0/9.5	148	18.03	68
<b>10</b>	1200	208-230/460	254TC	<b>C155A</b>	254TTDX14089	*	\$1,233	E2	88.5	23.0-21.4/10.7	217	20.92	68
	3600	208-230/460	213TC	C106	213TTDW7021	*	\$868	E6	85.5	28.0-25.0/12.5	95	16.53	d,68
	3600	208-230/460	213TC	<b>C106A</b>	213TTDW14014	*	\$934	E2	88.5	26.0-23.4/11.7	105	18.03	68
	1800	208-230/460	215TC	<b>C126A</b>	215TTDW14071	*	\$930	E2	89.5	28.0-25.0/12.5	124	18.03	68
	1200	230/460	256TC	C156	256TTDX7396	*	\$1,300	E6	87.5	27.6/13.8	189	22.67	68
	1200	230/460	256TC	<b>C156A</b>	256TTDX14087	*	\$1,398	E2	90.2	28.0/14.0	201	22.67	68

# General Purpose, Three Phase

## Dripproof



**Applications:** General purpose use on gear reducers, pumps, machine tools, and other direct coupled equipment installed in environments that are relatively clean and dry. For use outdoors an enclosure or drip cover may be required (see Accessories section).

- Features:**
- Ball bearings, mechanically locked on shaft end
  - NEMA Service Factors
  - UL Recognized and CSA Certified



### C-Face Footed (Rigid Base)

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/3	1800	208-230/460	56C	K1305	5K42FN4033	*	-----	\$259	F1	69.2	1.5-1.6/0.8	17	9.95	
1/2	3600	208-230/460	56C	K1306	5K49FN2045	*	-----	\$245	F1	65.5	2.2-2.5/1.3	19	10.38	114
	1800	208-230/460	56C	K1307	5K42HN4032	*	-----	\$289	F1	74.7	2.3-2.2/1.1	19	9.95	
3/4	1800	208-230/460	56C	K1308	5K46KN4031	*	-----	\$320	F1	74.3	3.3-3.0/1.5	24	10.78	
1	1800	208-230/460	143TC	<b>K2021</b>	5KE49PN8391	*	-----	\$347	E2	82.5	3.2-3.1/1.55	34	11.50	d
	1800	208-230/460	56HC	K635	5K46MN4623	*	-----	\$325	F1	79.2	3.6-3.8/1.9	27	10.78	
1 1/2	3600	208-230/460	56C	K690	5K46HN2546	*	-----	\$356	F1	80.0	5.2-5.0/2.5	22	10.44	
	1800	208-230/460	145TC	<b>K2022</b>	5KE49TN8401	*	-----	\$356	E2	84.0	4.5-4.4/2.2	39	12.03	
	1800	208-230/460	56HC	K646	5K49RN4617	*	-----	\$357	F1	82.1	5.2/2.6	33	11.91	
2	3600	208-230/460	56C	K1311	5K49NN2046	*	-----	\$414	F1	80.5	6.6-6.0/3.0	27	11.38	
	1800	208-230/460	145TC	<b>K2023</b>	5KE49UN8407	*	-----	\$401	E2	84.0	6.4-6.0/3.0	42	13.34	
	1800	208-230/460	56HC	K648	5K49ZN4616	*	-----	\$390	F1	83.6	6.2-5.8/2.9	49	13.86	
5	3600	208-230/460	182TC	<b>U402B</b>	182TTDW14012	*	2:1	\$788	E2	88.5	13.4-12.0/6.0	72	14.20	68
	1800	230/460	184TC	<b>U403A</b>	---		2:1	\$771	E2	89.5	11.2/5.6	89	14.20	13,68
7 1/2	3600	208-230/460	184TC	U404	184TTDR4107	*	2:1	\$908	E2	87.5	20.0-17.6/8.8	99	15.46	d,13,68
	3600	208-230/460	184TC	U1404	184TTDW4107	*	2:1	\$908	E2	87.5	20.0-17.6/8.8	76	14.20	d,13,68
	3600	208-230/460	184TC	<b>U404B</b>	184TTDW16001		2:1	\$1,061	E2	88.5	17.8/8.9	85	14.20	13,68
	1800	230/460	213TC	U405	213TTDW4045	*	2:1	\$896	E2	88.5	19.2/9.6	155	18.03	d,68
	1800	230/460	213TC	<b>U405A</b>	213TTDW16063	*	2:1	\$1,048	E2	91.0	16.2/8.1	168	18.03	68
10	3600	230/460	213TC	U432	213TTDW4315		2:1	\$926	E2	88.5	23.4/11.7	118	18.03	YD,68
	3600	230/460	213TC	<b>U432A</b>	213TTDW16010		2:1	\$1,083	E2	89.5	23.4/11.7	127	18.03	YD,68
	1800	208-230/460	215TC	U433	215TTDW4335		2:1	\$1,066	E2	89.5	28.0-25.0/12.5	172	18.03	YD,68
	1800	208-230/460	215TC	<b>U433A</b>	215TTDW16061		2:1	\$1,246	E2	91.7	27.0-25.0/12.5	185	19.28	YD,68
15	3600	230/460	215TC	<b>U435</b>	215TTDW4315		2:1	\$1,349	E2	90.2	34.0/17.0	128	19.28	YD,13,68
	1800	208-230/460	254TC	U436	254TTDX4065	*	2:1	\$1,404	E2	91.0	42.0-38.5/19.2	185	22.64	d,YD,68
	1800	208-230/460	254TC	<b>U436A</b>	254TTDN16056	*	2:1	\$1,641	E2	93.0	37.0/18.5	221	23.31	YD,68
20	3600	230/460	254TC	<b>U437</b>	254TTDX4315		2:1	\$1,615	E2	91.0	46.0/23.1	200	20.89	YD,68
	1800	208-230/460	256TC	<b>U438A</b>	256TTDN16049		2:1	\$1,955	E2	92.4	54.0-48.0/24.0	235	24.81	A,YD,68
25	3600	230/460	256TC	U439	256TTDX4315		2:1	\$1,928	E2	91.0	58.0/29.0	185	22.64	d,YD,68
	3600	230/460	256TC	<b>U439A</b>	256TTDN16009		2:1	\$2,255	E2	91.7	58.0/29.0	243	24.81	YD,68
	1800	230/460	284TSC	U440	284TSTDP4062		2:1	\$2,023	E2	91.7	61.0/30.5	346	22.06	YD,68
	1800	230/460	284TSC	<b>U440A</b>	286TSTDN16034		2:1	\$2,365	E2	93.6	61.0/30.5	356	14.50	YD,68
30	3600	230/460	284TSC	U441	284TSTDP4306	*	2:1	\$2,377	E2	91.0	72.0/36.0	198	22.06	d,YD,68
	3600	230/460	284TSC	<b>U441A</b>	286TSTDN16005	*	2:1	\$2,780	E2	91.7	67.5/34	234	25.44	YD,68
	1800	230/460	286TSC	<b>U442A</b>	286TSTDN16033		2:1	\$2,694	E2	94.1	73.0/36.5	376	25.44	YD,68
40	3600	230/460	286TSC	<b>U443A</b>	286TSTDN16004		2:1	\$3,458	E2	92.4	90.0/45.0	354	25.44	YD,68
	1800	230/460	324TSC	<b>U444A</b>	324TSTDP16032		-----	\$3,418	E2	94.1	94.0/47.0	465	24.50	YD,68
50	3600	230/460	324TSC	U445	324TSTDP4016	*	-----	\$3,589	E2	92.4	117/58.5	420	24.50	d,YD,68
	3600	230/460	324TSC	<b>U445A</b>	324TSTDP16002	*	-----	\$4,196	E2	93.0	112/56.0	443	24.50	YD,68
	1800	230/460	326TSC	<b>U446A</b>	326TSTDR16035		-----	\$3,901	E2	94.5	121/60.5	453	27.00	YD,68
60	3600	230/460	326TSC	<b>U447A</b>	326TSTDP16005	*	-----	\$4,703	E2	93.6	135/67.5	366	26.00	YD,68
	1800	230/460	364TSC	U448	364TSTDS4355		-----	\$4,185	E2	93.6	144/72	708	26.50	YD,68
	1800	230/460	364TSC	<b>U448A</b>	---		-----	\$4,894	E2	95.0	139/69.5	748	26.50	YD,68
75	3600	230/460	364TSC	<b>U449A</b>	365TSTDS16008		-----	\$6,832	E2	93.6	170/85.0	732	27.50	YD,68
	1800	230/460	365TSC	<b>U450A</b>	365TSTDS6074		-----	\$5,801	E2	95.0	174/87.0	803	27.50	YD,68
100	3600	230/460	365TSC	<b>U451A</b>	365TSTDS16005		-----	\$8,081	E2	93.6	230/115	799	27.50	YD,68
	1800	230/460	404TSC	<b>U452A</b>	404TSTDS6327		-----	\$7,556	E2	95.4	226/113	1056	29.50	YD,68
125	3600	460	404TSC	U453	404TSTDS4308	*	-----	\$8,311	E2	93.6	142	949	29.50	d,YD,68
	3600	460	404TSC	<b>U453A</b>	404TSTDS16006	*	-----	\$9,719	E2	94.1	138	991	29.50	YD,68
150	3600	460	405TSC	<b>U455A</b>	405TSTDS16005		-----	\$12,214	E2	94.1	165	1034	31.00	YD,68
	1800	460	444TSC	<b>U456A</b>	444TSTDS16034		-----	\$12,379	E2	95.8	170	1376	34.00	YD,13,68

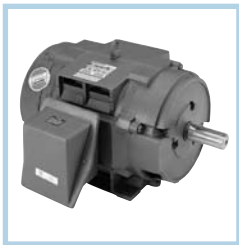
Blue shaded areas are Cast Iron Frames

\* Requires nameplate modification

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements



# General Purpose, Three Phase Dripproof, NEMA Premium® XRI® Efficiency



**Applications:** General purpose use on compressors, pumps, conveyors, blowers, and other machinery in environments that are relatively clean and dry. Substantial energy savings can be realized when using these high efficiency motors. Guaranteed efficiencies offer an eXtra Return on your Investment when using these premium efficiency motors on high cycle or long run time applications.

**Features:** **Meets or exceeds NEMA Premium® efficiencies**  
**NEMA Premium® models are in compliance with EISA2007**

- Motors are suitable for 10:1 VT on all frame sizes and 10:1 CT up to 365T frame (Except where noted)
- 1.15 Service Factor
- TSTATS available from Mod Central
- Class F Insulation
- Nameplated 60/50 hertz
- UL Recognized, CSA Certified and CE Marked
- Three year warranty



## Rigid Base

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C FACE KIT
<b>1</b>	3600	208-230/460	56H	<b>U244</b>	56T17D6001	*	\$406	E2	80.0	2.8-3.4/1.4	24	10.18	13	A435
	1800	208-230/460	143T	<b>U758</b>	143TTDR6027	*	\$463	E2	85.5	3.2/1.6	30	12.12		A600
	1800	575	143T	<b>E912A</b>	143TTDR16037	*	\$463	E2	85.5	1.3	30	12.12		A600
	1200	208-230/460	145T	<b>U265</b>	145TTDR6076	*	\$539	E2	82.5	3.8-4.4/2.2	41	12.62		A600
	1200	575	145T	<b>E934A</b>	145TTDR16077	*	\$539	E2	82.5	1.8	41	12.62		A600
<b>1 1/2</b>	3600	208-230/460	143T	<b>U245</b>	143TTDR6028	*	\$452	E2	84.0	4.4-4.0/2.0	36	12.28		A600
	3600	575	143T	<b>E798A</b>	143TTDR16005	*	\$452	E2	84.0	1.6	36	12.28		A600
	1800	208-230/460	145T	<b>U759</b>	145TTDR6028	*	\$483	E2	86.5	4.8-5.6/2.4	35	12.62		A600
	1800	575	145T	<b>E913A</b>	145TTDR16061	*	\$483	E2	86.5	1.8	35	12.62		A600
	1200	208-230/460	182T	<b>U1266</b>	182TTDW6076	*	\$634	E2	86.5	6.2/3.1	68	13.19	13	A666
1200	575	182T	<b>U914</b>	182TTDW16009	*	\$634	E2	86.5	2.5	68	13.19	13	A666	
<b>2</b>	3600	208-230/460	145T	<b>U246</b>	145TTDR6039	*	\$533	E2	85.5	5.2-4.8/2.4	43	13.12		A436
	3600	575	145T	<b>U906A</b>	145TTDR16008	*	\$533	E2	85.5	2.1	43	13.12		A436
	1800	208-230/460	145T	<b>U760</b>	145TTDR6029	*	\$547	E2	86.5	5.8/2.9	37	13.62		A600
	1800	575	145T	<b>E914A</b>	145TTDR16062	*	\$547	E2	86.5	2.4	37	13.62		A600
	1200	208-230/460	184T	<b>U1267</b>	184TTDW6076	*	\$646	E2	87.5	7.2/3.6	90	15.19	13	A666
1200	575	184T	<b>U915</b>	184TTDW16076	*	\$646	E2	87.5	2.9	90	15.19	13	A666	
<b>3</b>	3600	208-230/460	145T	<b>U247</b>	145TTDR6002	*	\$539	E2	86.5	8.0-7.2/3.6	45	13.12		A600
	3600	575	145T	<b>E932A</b>	145TTDR16010	*	\$539	E2	86.5	2.9	45	13.12		A600
	1800	208-230/460	182T	<b>E1930</b>	182TTDW6030	*	\$561	E2	89.5	8.4-8.0/4.0	76	14.19	13	A666
	1800	575	182T	<b>E915B</b>	182TTDW16029	*	\$561	E2	89.5	3.4	76	14.19	13	A666
	1200	208-230/460	213T	<b>U268</b>	213TTDC6076	*	\$886	E2	88.5	10.2-10.0/5.0	156	16.38		A602
1200	575	213T	<b>U279</b>	213TTDC6079	*	\$886	E2	88.5	4.0	156	16.38		A602	
<b>5</b>	3600	208-230/460	182T	<b>U1248</b>	182TTDW6001	*	\$591	E2	86.5	13.0-12.0/6.0	86	15.19	13	A666
	3600	575	182T	<b>U908A</b>	182TTDW16008	*	\$591	E2	86.5	5.6	86	15.19	13	A666
	1800	208-230/460	184T	<b>E1931</b>	184TTDW6031	*	\$631	E2	89.5	13.6-12.8/6.4	89	15.19	13	A666
	1800	575	184T	<b>E916B</b>	184TTDW16040	*	\$631	E2	89.5	5.3	89	15.19	13	A666
	1200	208-230/460	215T	<b>U269</b>	215TTDC6076	*	\$1,031	E2	90.2	15.8-15.0/7.5	185	16.38		A602
1200	575	215T	<b>U280</b>	215TTDC6079	*	\$1,031	E2	90.2	6.0	185	16.38		A602	
<b>7 1/2</b>	3600	208-230/460	184T	<b>U249A</b>	184TTDW6001	*	\$855	E2	88.5	19.6-17.6/8.8	106	16.19	13	A666
	3600	575	184T	<b>E938A</b>	184TTDW16027	*	\$855	E2	88.5	7.0	106	16.19	13	A666
	1800	208-230/460	213T	<b>U763</b>	213TTDC6026	*	\$817	E2	91.0	20.6-19.8/9.9	160	16.38		A602
	1800	575	213T	<b>U281</b>	213TTDC6029	*	\$817	E2	91.0	7.8	160	16.38		A602
	1200	208-230/460	254T	<b>U254</b>	254TTDC6076	*	\$1,289	E2	92.4	23.4-22.4/11.2	281	20.94	YD	A622
1200	575	254T	<b>U282</b>	254TTDC6079	*	\$1,289	E2	92.4	8.1	281	20.94	YD	A622	
<b>10</b>	3600	208-230/460	213T	<b>U764</b>	213TTDC6001	*	\$932	E2	91.0	25.0-23.6/11.8	150	16.38		A602
	3600	575	213T	<b>U283</b>	213TTDC6003	*	\$932	E2	91.0	9.4	150	16.38		A602
	1800	208-230/460	215T	<b>U765</b>	215TTDC6026	*	\$964	E2	91.7	28.5-25.6/12.8	220	17.87		A602
	1800	575	215T	<b>U284</b>	215TTDC6029	*	\$964	E2	91.7	10.0	220	17.87		A602
	1200	208-230/460	256T	<b>U255</b>	256TTDC6076	*	\$1,607	E2	91.7	31.0-29.6/14.8	305	22.60	YD	A622
	1200	575	256T	<b>U285</b>	256TTDC6079	*	\$1,607	E2	91.7	10.8	305	22.60	YD	A622

Blue shaded areas are Cast Iron Frames

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements Continued on next page.



# General Purpose, Three Phase Dripproof, NEMA Premium® XRI® Efficiency

## Rigid Base

THREE PHASE - NEMA PREMIUM

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C FACE KIT
<b>15</b>	3600	208-230/460	215T	<b>U766</b>	215TTDC6001	★	\$1,366	E2	91.0	38.0-34.6/17.3	184	17.87	99	A602
	3600	575	215T	<b>U286</b>	215TTDC6003	★	\$1,366	E2	91.0	13.8	184	17.87	99	A602
	1800	208-230/460	254T	<b>U767</b>	254TTDC6026	★	\$1,335	E2	93.0	40.5-37.0/18.5	310	20.94	A,YD	A622
	1800	575	254T	<b>U287</b>	254TTDC6029	★	\$1,335	E2	93.0	15.0	310	20.94	A,YD	A622
	1200	208-230/460	284T	<b>U256</b>	284TTDC6076	★	\$2,116	E2	92.4	42.0-39.5/19.7	414	23.54	YD	A626
	1200	575	284T	<b>U288</b>	284TTDC6079	★	\$2,116	E2	92.4	16.0	414	23.54	YD	A626
<b>20</b>	3600	208-230/460	254T	<b>U768</b>	254TTDC6001	★	\$1,574	E2	93.0	50.0-46.0/23.0	300	20.94	YD	A622
	3600	575	254T	<b>U289</b>	254TTDC6003	★	\$1,574	E2	93.0	18.4	300	20.94	YD	A622
	1800	208-230/460	256T	<b>U769</b>	256TTDC6026	★	\$1,653	E2	93.0	55.0-51.0/25.5	360	22.60	YD	A622
	1800	575	256T	<b>U290</b>	256TTDC6029	★	\$1,653	E2	93.0	19.2	360	22.60	YD	A626
	1200	208-230/460	286T	<b>U257</b>	286TTDC6076	★	\$2,577	E2	92.4	58.0-55.0/27.5	457	25.00	YD	A626
<b>25</b>	3600	208-230/460	256T	<b>U770</b>	256TTDC6001	★	\$2,004	E2	93.0	64.0-57.4/28.7	315	22.60	YD	A622
	3600	575	256T	<b>U291</b>	256TTDC6003	★	\$2,004	E2	93.0	23.0	315	22.60	YD	A626
	1800	208-230/460	284T	<b>U771</b>	284TTDC6026	★	\$1,950	E2	93.6	66.0-59.6/29.8	424	23.54	YD	A626
	1800	208-230/460	284TS	<b>E793A</b>	284TSTDN16031	★	\$1,950	E2	93.6	64.0/32.0	424	23.57		A287
	1800	575	284T	<b>E762A</b>	284TTDC6029	★	\$1,950	E2	93.6	23.8	424	23.54	YD	A627
	1200	208-230/460	324T	<b>U798</b>	324TTDC6076	★	\$3,070	E2	93.0	72.0-67.0/33.5	695	26.02	YD	A627
<b>30</b>	3600	208-230/460	284TS	<b>U772</b>	284TSTDC6001	★	\$2,479	E2	94.1	85.0-67.0/33.5	396	22.17	YD	A626
	3600	575	284TS	<b>U292</b>	284TSTDC6003	★	\$2,479	E2	94.1	28.1	396	22.17	YD	A626
	1800	208-230/460	286T	<b>U773</b>	286TTDC6026	★	\$2,250	E2	94.1	78.0-71.0/35.5	483	25.00	YD	A626
	1800	208-230/460	286TS	<b>E794A</b>	286TSTDN16036	★	\$2,250	E2	94.1	78.0-71.0/35.5	483	25.44		A287
	1800	575	286T	<b>E763A</b>	286TTDC6029	★	\$2,250	E2	94.1	28.6	483	25.00	YD	A627
	1200	208-230/460	326T	<b>U799</b>	326TTDC6076	★	\$3,599	E2	93.6	86.3-78.0/39.0	760	27.52	YD	A627
<b>40</b>	3600	208-230/460	286TS	<b>U774</b>	286TSTDC6001	★	\$2,984	E2	93.6	100-91.2/45.6	452	23.62	A,YD,99	A626
	3600	575	286TS	<b>U293</b>	286TSTDC6003	★	\$2,984	E2	93.6	36.5	452	23.62	A,YD,99	A626
	1800	208-230/460	324T	<b>U775</b>	324TTDC6026	★	\$2,828	E2	94.1	130-118/59.0	581	26.02	YD	A627
	1800	208-230/460	324TS	<b>E789A</b>	326TSTDP16032	★	\$2,828	E2	94.1	100/50.0	581	26.00		A613
	1800	575	324T	<b>E764A</b>	324TTDC6029	★	\$2,828	E2	94.1	38.0	581	26.02	YD	A627
	1200	208-230/460	364T	<b>U1927</b>	364TTDCA6086	★	\$4,619	E2	94.1	107-100/50.0	875	31.60	YD	A626
<b>50</b>	3600	208-230/460	324TS	<b>U776</b>	324TSTDC6001	★	\$3,638	E2	94.1	123-112/56.0	548	24.53	YD	A627
	3600	575	324TS	<b>U294</b>	324TSTDC6003	★	\$3,638	E2	94.1	44.8	548	24.53	YD	A627
	1800	208-230/460	326T	<b>U777</b>	326TTDC6026	★	\$3,369	E2	94.5	129-118/59.0	710	27.52	YD	A627
	1800	208-230/460	326TS	<b>E791A</b>	326TSTDR16034	★	\$3,369	E2	94.5	121/60.5	710	27.00		A613
	1800	575	326TS	<b>E765A</b>	326TTDC6029	★	\$3,369	E2	94.5	48.0	710	27.52	YD	A627
	1200	208-230/460	365T	<b>U1928</b>	365TTDCA6086	★	\$5,317	E2	94.1	134-125/62.5	930	32.80	YD	A629
<b>60</b>	3600	208-230/460	326TS	<b>U778</b>	326TSTDC6001	★	\$4,352	E2	94.1	148-136/68.0	590	26.02	YD	A627
	1800	208-230/460	364T	<b>U1779</b>	364TTDCA6060	★	\$4,007	E2	95.4	151.5-140/70.0	1005	31.60	YD	A629
	1800	208-230/460	364TS	<b>E768C</b>	365TSTDS16042	★	\$4,007	E2	95.4	153-139/69.5	1005	27.50		A219
	1800	575	364T	<b>E766A</b>	---	★	\$4,007	E2	95.4		1005	29.50	YD	A216
	1200	230/460	404T	<b>U270</b>	404TTDS6086	★	\$6,400	E2	95.0	146/73.0	975	32.50		A222

Blue shaded areas are Cast Iron Frames

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

Continued on next page.

# General Purpose, Three Phase Dripproof, NEMA Premium® XRI® Efficiency Rigid Base

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C FACE KIT
<b>75</b>	3600	208-230/460	364TS	<b>U1782</b>	364TSTDCA6001	*	\$5,750	E2	93.6	190-170/85.0	937	29.50	YD	A629
	1800	208-230/460	365T	<b>U1783</b>	365TTDCA6060	*	\$4,799	E2	95.4	189-174/87.0	1030	32.80	YD	A629
	1800	208-230/460	365TS	<b>E782C</b>	365TSTDS16041	*	\$4,799	E2	95.4	194-174/87.0	1030	27.50		A219
	1800	575	365T	<b>E767A</b>	---	*	\$4,799	E2	95.4		1030	29.50	YD	A216
	1200	230/460	405T	<b>U271</b>	405TTDS16081	*	\$7,866	E2	95.0	180/90.0	1100	34.00		A222
<b>100</b>	3600	208-230/460	365TS	<b>U1784</b>	365TSTDCA6001	*	\$7,037	E2	94.5	251-224/112	1016	30.60	YD	A629
	1800	230/460	404T	<b>E922</b>	404TTDS6060	*	\$6,256	E2	95.4	226/113	1025	32.50	YD	A222
	1800	230/460	404TS	<b>E780A</b>	404TSTDS16036	*	\$6,256	E2	95.4	226/113	1025	29.50		A225
	1800	575	404T	<b>U903A</b>	---	*	\$6,256	E2	95.4		1025	32.50	YD	A222
	1200	230/460	444T	<b>U272</b>	444TTDS16077	*	\$9,764	E2	95.4	234/117	1300	37.75		A228
<b>125</b>	3600	460	404TS	<b>U250</b>	404TSTDS6001	*	\$8,418	E2	95.0	140	973	29.50	YD	A225
	1800	460	405T	<b>E923</b>	405TTDS6060	*	\$7,919	E2	95.4	141	1150	34.00	YD	A222
	1800	460	405TS	<b>E781A</b>	405TSTDS16038	*	\$7,919	E2	95.4	141	1150	31.00	PW	A225
	1800	575	405T	<b>U904A</b>	---	*	\$7,919	E2	95.4		1150	34.00	YD	A222
	1200	460	445T	<b>U273</b>	445TTDS16076	*	\$12,814	E2	95.0	145	1500	39.75	YD	A228
<b>150</b>	3600	460	405TS	<b>U251</b>	405TSTDS6007	*	\$10,599	E2	95.0	165	1075	31.00	YD	A225
	1800	460	444T	<b>E924</b>	444TTDS6060	*	\$10,631	E2	95.8	170	1275	37.75	YD	A228
	1800	460	444TS	<b>E792A</b>	444TSTDS16038	*	\$10,631	E2	95.8	170	1275	34.00	PW	A231
	1800	575	444T	<b>U911A</b>	445TTDS6060	*	\$10,631	E2	95.8	170	1275	37.75	YD	A228
	1200	460	447T	<b>U274</b>	444TTDS16043	*	\$13,175	E2	95.4	185	2050	43.25		N/A
<b>200</b>	3600	460	444TS	<b>U252</b>	444TSTDS16003	*	\$15,323	E2	95.8	216	1277	34.00	YD	A231
	1800	460	445T	<b>E925</b>	445TTDS6060	*	\$13,339	E2	95.8	225	1500	39.75	YD	A228
	1800	460	445TS	<b>U400A</b>	445TSTDS16038	*	\$13,339	E2	95.8	225	1500	36.00	PW	A231
	1800	575	445T	<b>U912A</b>	445TTDS16041	*	\$13,339	E2	95.8	225	1500	39.75	YD	A228
	1200	460	449T	<b>U275</b>	449TTDN16076	*	\$15,730	E2	95.4	245	2200	43.25	YD	N/A
<b>250</b>	3600	460	447TS	<b>U785</b>	447TSTDN16004	*	\$17,846	E2	95.8	274	1438	39.50	YD	A293
	1800	460	447T	<b>U786</b>	447TTDN16046	*	\$16,478	E2	96.2	292	1438	43.25	YD	N/A
<b>300</b>	3600	460	447TS	<b>U788</b>	447TSTDN16007	*	\$20,819	E2	95.4	330	1745	39.50	YD	A293
	1800	460	447T	<b>U789</b>	447TTDN16041	*	\$18,660	E2	96.2	340	1745	43.25	YD	N/A
	1200	460	449T	<b>U790</b>	449TTDN16077	*	\$24,663	E2	95.8	365	2112	48.25	YD	N/A
<b>350</b>	3600	460	447TS	<b>U791</b>	447TSTDN16008	*	\$22,900	E2	95.4	385	1745	39.50	YD	A293
<b>400</b>	3600	460	449TS	<b>U793</b>	449TSTDN16003	*	\$26,471	E2	95.8	450	2112	44.50	YD	A293
<b>450</b>	3600	460	449TS	<b>U795</b>	449TSTDN16004	*	\$33,459	E2	95.8	495	2112	44.50	YD	A293
<b>500</b>	3600	460	449TS	<b>U797</b>	449TSTDN16005	*	\$37,275	E2	95.8	545	2147	44.50	YD	A293

Blue shaded areas are Cast Iron Frames

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

# General Purpose, Three Phase Globetrotter® NEMA Premium® Efficiency

Dripproof



**Features:**

⊕ Meets or exceeds NEMA Premium® efficiencies  
NEMA Premium® models are in compliance with EISA2007

- 182T-215T models steel frame, 254T-449T models cast iron frame
- Inverter Duty 10:1 Variable Torque and 2:1 Constant Torque, 1.0 SF
- 1.15 Service Factor
- Class F Insulation
- Standard assembly F1, reversible to F2 assembly
- UL Recognized, CSA Certified, CE Mark
- Two year warranty



**Rigid Base**

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C FACE KIT
<b>1 1/2</b>	1200	208-230/460	182T	<b>GT0005</b>	182TTDB6076	★	\$623	E1	86.5	4.8-4.4/2.2	75	13.72		A160
<b>2</b>	1200	208-230/460	184T	<b>GT0008</b>	184TTDB6076	★	\$634	E1	87.5	6.4-5.8/2.9	99	14.72		A160
<b>3</b>	1800	208-230/460	182T	<b>GT0010</b>	182TTDB6026	★	\$551	E1	89.5	8.4-7.8/3.9	76	13.72		A160
	1200	208-230/460	213T	<b>GT0011</b>	213TTDB6076	★	\$870	E1	88.5	10.2-10.0/5.0	156	17.52		A161
<b>5</b>	3600	208-230/460	182T	<b>GT0012</b>	182TTDB6001	★	\$581	E1	86.5	13.2-11.8/5.9	126	13.72		A160
	1800	208-230/460	184T	<b>GT0013</b>	184TTDB6026	★	\$620	E1	89.5	13.6-12.4/6.2	130	14.72		A160
	1200	208-230/460	215T	<b>GT0014</b>	215TTDB6076	★	\$1,012	E1	89.5	15.2-14.0/7.0	281	17.52		A161
<b>7 1/2</b>	3600	208-230/460	184T	<b>GT0015</b>	184TTDB6001	★	\$714	E1	88.5	19.0-17.2/8.6	143	14.72		A160
	1800	208-230/460	213T	<b>GT0016</b>	213TTDB6026	★	\$802	E1	91.0	20.7-18.6/9.3	160	17.52		A161
	1200	208-230/460	254T	<b>GT0017</b>	254TTDCA6076	★	\$1,266	E1	90.2	21.8-21/10.5	281	22.64		A163
<b>10</b>	3600	208-230/460	213T	<b>GT0018</b>	213TTDB6001	★	\$916	E1	89.5	25.5-23.0/11.5	150	17.52		A161
	1800	208-230/460	215T	<b>GT0019</b>	215TTDB6026	★	\$947	E1	91.7	26.6-24.4/12.2	220	17.52		A161
	1200	208-230/460	256T	<b>GT0020</b>	256TTDCA6076	★	\$1,578	E1	91.7	28.3-26.8/13.4	305	24.22		A163
<b>15</b>	3600	208-230/460	215T	<b>GT0021</b>	215TTDB6001	★	\$1,342	E1	90.2	38.0-34.0/17.0	184	17.52		A161
	1800	208-230/460	254T	<b>GT0022</b>	254TTDCA6026	★	\$1,311	E1	93.0	40.0-37.0/18.5	310	22.64		A163
	1200	208-230/460	284T	<b>GT0023</b>	284TTDCA6076	★	\$2,078	E1	91.7	42.5-40.0/20.0	414	25.71		A165
<b>20</b>	3600	208-230/460	254T	<b>GT0024</b>	254TTDCA6001	★	\$1,546	E1	91.0	50.0-45.5/22.8	300	22.64		A162
	1800	208-230/460	256T	<b>GT0025</b>	256TTDCA6026	★	\$1,623	E1	93.0	52.5-48.0/24.0	360	24.22		A163
	1200	208-230/460	286T	<b>GT0026</b>	286TTDCA6076	★	\$2,532	E1	92.4	56.5-52.5/26.3	457	27.09		A165
<b>25</b>	3600	208-230/460	256T	<b>GT0027</b>	256TTDCA6001	★	\$1,969	E1	91.7	64.0-56.0/28.0	315	24.22		A162
	1800	208-230/460	284T	<b>GT0028</b>	284TTDCA6026	★	\$1,915	E1	93.6	67.0-62.0/31.0	424	25.71		A165
	1200	208-230/460	324T	<b>GT0029</b>	324TTDCA6076	★	\$3,016	E1	93.0	66.0/33.0	695	28.55		A167
<b>30</b>	3600	208-230/460	284TS	<b>GT0030</b>	284TSTDCA6001	★	\$2,435	E1	91.7	74.0-66.5/33.5	396	24.41		A164
	1800	208-230/460	286T	<b>GT0031</b>	286TTDCA6026	★	\$2,210	E1	94.1	80.0-73.0/36.5	483	27.09		A165
	1200	208-230/460	326T	<b>GT0032</b>	326TTDCA6076	★	\$3,535	E1	93.6	83.5-78.5/39.0	760	29.73		A167
<b>40</b>	3600	208-230/460	286TS	<b>GT0033</b>	286TSTDCA6001	★	\$2,931	E1	92.4	99.0-89.0/44.5	452	25.79		A164
	1800	208-230/460	324T	<b>GT0034</b>	324TTDCA6026	★	\$2,777	E1	94.5	95.0/47.5	581	28.55		A167
	1200	208-230/460	364T	<b>GT0035</b>	364TTDCB6086	★	\$4,537	E1	94.1	105-97.0/48.5	875	31.70		A169
<b>50</b>	3600	208-230/460	324TS	<b>GT0036</b>	324TSTDCA6001	★	\$3,573	E1	93.0	122-111/55.5	548	27.05		A166
	1800	208-230/460	326T	<b>GT0037</b>	326TTDCA6026	★	\$3,310	E1	94.5	118/59.0	710	29.73		A167
	1200	208-230/460	365T	<b>GT0038</b>	365TTDCB6086	★	\$5,223	E1	94.1	130-120/60.0	930	33.27		A169
<b>60</b>	3600	208-230/460	326TS	<b>GT0039</b>	326TSTDCA6001	★	\$4,275	E1	93.6	132/66.0	590	28.23		A166
	1800	208-230/460	364T	<b>GT0040</b>	364TTDCB6060	★	\$3,935	E1	95.0	139/69.5	1005	31.70		A169
	1200	230/460	404T	<b>GT0041</b>	404TTDC6086	★	\$6,286	E1	94.5	144/72.0	975	32.50		---

Blue shaded areas are Cast Iron Frames

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

# General Purpose, Three Phase Globetrotter® NEMA Premium® Efficiency

## Drip-proof

### Rigid Base

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C FACE KIT
<b>75</b>	3600	208-230/460	364TS	<b>GT0042</b>	364TSTDCB6001	★	\$5,648	E1	93.6	183-164/82.0	937	29.57		---
	1800	208-230/460	365T	<b>GT0043</b>	365TTDCB6060	★	\$4,713	E1	95.0	194-174/87.0	1030	33.27		---
	1200	230/460	405T	<b>GT0044</b>	405TTDC16081	★	\$7,726	E1	94.5	180/90.0	1100	34.00		---
<b>100</b>	3600	208-230/460	365TS	<b>GT0045</b>	365TSTDCB6001	★	\$6,912	E1	93.6	243-218/109	1016	31.15		---
	1800	230/460	404T	<b>GT0046</b>	404TTDC6060	★	\$6,145	E1	95.4	226/113	1025	37.20		---
	1200	460	444T	<b>GT0047</b>	444TTDC16077	★	\$9,591	E1	95.0	232/116	1300	44.57		---
<b>125</b>	3600	460	404TS	<b>GT0048</b>	404TSTDC6001	★	\$8,269	E1	94.1	138	973	33.85		---
	1800	460	405T	<b>GT0049</b>	405TTDC6060	★	\$7,778	E1	95.4	140	1150	38.80		---
	1200	460	445T	<b>GT0050</b>	445TTDC16076	★	\$12,586	E1	95.0	145	1500	44.57		---
<b>150</b>	3600	460	405TS	<b>GT0051</b>	405TSTDC6007	★	\$9,676	E1	94.1	163	1075	35.45		---
	1800	460	444T	<b>GT0052</b>	444TTDC6060	★	\$10,442	E1	95.8	168	1275	44.57		---
	1200	460	447T	<b>GT0053</b>	447TTDC16077	★	\$12,941	E1	95.4	172	2050	49.70		---
<b>200</b>	3600	460	444TS	<b>GT0054</b>	444TSTDC16003	★	\$15,051	E1	95.0	215	1277	40.83		---
	1800	460	445T	<b>GT0055</b>	445TTDC6060	★	\$13,102	E1	95.8	220	1500	44.57		---
	1200	460	449T	<b>GT0056</b>	449TTDC16076	★	\$16,501	E1	95.4	228	2200	49.70		---

Blue shaded areas are Cast Iron Frames

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

# General Purpose, Three Phase

## Totally Enclosed



**Applications:** General purpose use on pumps, fans, blowers, compressors, conveyors, and other industrial machinery installed in damp, dusty, or dirty environments. Additionally, cast iron frame motors may be suitable for the process industries.

**Features:**



- Frame constructions are heavy gauge steel or Aluminum, as noted
- Ball bearings (except as noted)
- 1.15 Service Factor (except as noted)
- 60/50 hertz at next lower horsepower, as noted
- Will accept C-Face Kits as noted, also see Accessories section
- UL Recognized and CSA Certified
- Two year warranty on EISA efficient motors (**bold blue Catalog Numbers**)

### Rigid Base

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C-FACE KITS
<b>1/4</b>	1800	208-230/460	48	K151	5K32GN30	★	-----	<b>\$221</b>	F1	62.9	1.3-1.4/0.7	14	9.92	20	N/A
	1800	230/460	48	K194	5K33KN92	★	-----	<b>\$322</b>	F1	67.5	1.2/0.6	15	9.19	17	N/A
	1800	208-230/460	56	K439	5K49DN4131	★	-----	<b>\$283</b>	F1	67.4	1.1-1.2/0.6	16	9.57	N,17	A536
	1800	575	48	K418	5K32GN53	★	-----	<b>\$299</b>	F1	61.2	0.6	16	9.92	17	N/A
	1200	230/460	56	K321	5K35MN75	★	-----	<b>\$217</b>	F1	66.0	1.4/0.7	17	10.93	20,68	AG215
<b>1/3</b>	3600	208-230/460	48	K153	5K33FN30	★	-----	<b>\$221</b>	F1		1.5-1.8/0.9	16	10.20	17	N/A
	1800	208-230/460	56	K154	5K49FN4136	★	-----	<b>\$239</b>	F1	69.2	1.5-1.6/0.8	20	10.73	20,68	A536
	1800	208-230/460	56	K196	5K49FN4129	★	-----	<b>\$361</b>	F1	73.4	1.3-1.4/0.7	18	9.57	17,N	A536
	1800	575	56	G304	56T17F2043	★	-----	<b>\$239</b>	F1	65.5	0.6	25	10.22	25	N/A
	1200	230/460	56	K155	5K36PN30	★	-----	<b>\$336</b>	F1	67.3	1.8/0.9	20	11.40	20,68	AG215
<b>1/2</b>	3600	208-230/460	56	G308	56T34F5328	★	2:1	<b>\$217</b>	F1	66.0	2.1-2.2/1.1	22	11.82	68	A437
	3600	575	56	G309	56T34F5333	★	2:1	<b>\$217</b>	F1	66.0	0.9	22	11.82		A437
	1800	208-230/460	56	K158	5K35MNB117	★	-----	<b>\$267</b>	F1	76.1	2.1-2.2/1.1	17	10.93	19	AG215
	1800	208-230/460	56	K197	5K42HN4109	★	-----	<b>\$402</b>	F1	76.9	1.8-1.8/0.9	20	9.95	17,N	A536
	1800	575	56	K426	5K42HN4134	★	-----	<b>\$267</b>	F1	76.9	0.8	22	11.00	19,50	A536
	1200	208-230/460	56	K159	5K49MN6079	★	-----	<b>\$369</b>	F1	72.0	2.6-2.6/1.3	27	11.43	5,19	A536
<b>3/4</b>	3600	208-230/460	56	K160	5K37NN30	★	-----	<b>\$259</b>	F1	74.1	2.6-2.5/1.3	18	11.76	19	AG215
	3600	575	56	G327	56T34F5334	★	2:1	<b>\$259</b>	F1	74.0	1.3	23	11.82		A437
	1800	200-208	56	G328	56T17F2045		-----	<b>\$295</b>	F1	75.5	3.2/3.3	21	11.22	25	N/A
	1800	208-230/460	56	K161	5K36PNB111	★	-----	<b>\$295</b>	F1	78.9	2.8-2.8/1.4	20	11.36	19	AG215
	1800	208-230/460	56	K198	5K49PN4113	★	-----	<b>\$414</b>	F1	80.6	2.4-2.4/1.2	31	11.38	17,N	A536
	1800	575	56	G1340	5K36PN251	★	-----	<b>\$295</b>	F1	73.4	1.3	20	11.40	19	A536
	1200	208-230/460	56	K162	5K46PN6082	★	-----	<b>\$382</b>	F1	76.1	2.9-2.8/1.4	31	11.83	68	AG215
	1200	208-230/460	143T	H700	143TTFR5376	★	2:1	<b>\$371</b>	E6	74.0	3.2-3.2/1.6	28	12.37	68	A438
<b>1</b>	3600	208-230/460	56	K163	5K38RN30	★	-----	<b>\$291</b>	F1	78.5	3.2-3.0/1.5	25	12.36	19,68	AG215
	3600	575	56	G345	56T34F5335		2:1	<b>\$291</b>	F1	74.0	1.5	24	11.82		A437
	1800	200	143T	<b>E824</b>	143TTFR4028	★	10:1	<b>\$347</b>	E8	82.5	3.5	32	12.87		A438
	1800	208-230/460	56	G347	56T17F5302	★	2:1	<b>\$309</b>	F1	77.0	3.5-3.6/1.8	25	12.32	68	A437
	1800	208-230/460	56	K164	5K49MN4105	★	-----	<b>\$394</b>	F1	79.2	3.6-3.8/1.9	27	11.43	17	A536
	1800	575	56	K424	5K49MN4111	★	-----	<b>\$309</b>	F1	78.2	1.7	27	11.43	19	A536
	1200	230/460	56H	K165	5K49UN6085	★	-----	<b>\$408</b>	F1	76.1	3.6/1.8	37	13.07	18,68	A536

\* Requires nameplate modification

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

Continued on next page.



# General Purpose, Three Phase

## Totally Enclosed

### Rigid Base

THREE PHASE

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C-FACE KITS
<b>1 1/2</b>	3600	200	143T	<b>E830</b>	143TTFR4003		2:1	<b>\$366</b>	E8	82.5	4.6	34	12.87		A438
	3600	208-230/460	56	K166	5K46KN2175	*	-----	<b>\$351</b>	F1	77.3	5.0-4.8/2.4	24	11.83	d	A536
	3600	575	56	G363	56T34F5336		2:1	<b>\$351</b>	F1	80.0	1.8	25	11.82		A437
	1800	200	145T	<b>E836</b>	145TTFR4029	*	10:1	<b>\$387</b>	E8	84.0	5.1	44	14.37		A438
	1800	200-208	145T	H665	145TTFR5328	*	2:1	<b>\$339</b>	E6	80.0	5.5-5.9	30	12.37	d	A438
	1800	208-230/460	56H	K167	5K49SN4118	*	-----	<b>\$353</b>	F1	81.7	4.7-4.4/2.2	35	13.07	5,19,68	A536
	1800	208-230/460	145T	E951	145TTFR4026	*	10:1	<b>\$387</b>	E8	84.0	4.6-4.4/2.2	44	14.37	d,68	A438
	1800	575	145T	<b>E838</b>	145TTFR4038	*	10:1	<b>\$387</b>	E8	84.0	1.8	44	14.37	d	A438
	1200	230/460	182T	E982	182TTFR4076	*	10:1	<b>\$458</b>	E8	85.5	5.0/2.5	106	14.97	d,68	A644
<b>2</b>	3600	200	145T	<b>E840</b>	145TTFR4005		2:1	<b>\$424</b>	E8	84.0	6.0	38	13.37		A438
	3600	208-230/460	145T	E994	145TTFR4001	*	2:1	<b>\$424</b>	E8	84.0	5.7-5.2/2.6	35	13.37	d,68	A438
	3600	575	56H	G368	56T34F5337		2:1	<b>\$408</b>	F1	80.0	2.4	29	12.32	5	A437
	3600	575	145T	<b>E843</b>	145TTFR4007		2:1	<b>\$424</b>	E8	84.0	2.1	38	13.37		A438
	1800	200	145T	<b>E845</b>	145TTFR4032	*	10:1	<b>\$424</b>	E8	84.0	64.5	46	13.87		A438
	1800	200-208	145T	H666	145TTFR5330	*	2:1	<b>\$373</b>	E6	82.5	6.8-6.8	40	13.87	d	A438
	1800	208-230/460	56	K1492	5K49ZN4252	*	-----	<b>\$393</b>	F1	83.6	6.2-5.8/2.9	44	14.38		A536
	1800	575	145T	<b>E847</b>	145TTFR4039	*	10:1	<b>\$424</b>	E8	84.0	2.3	41	13.87	d	A438
	1200	230/460	184T	E995	184TTFR4076	*	10:1	<b>\$502</b>	E8	86.5	6.0/3.0	72	15.97	d,68	A644
<b>3</b>	3600	208-230/460	56H	G385	56T34F5338		2:1	<b>\$458</b>	F1	84.0	8.4-7.6/3.8	39	13.52	5,68	A437
	3600	230/460	145T	K2011	5KE49WN8367	*	-----	<b>\$567</b>	E8	85.5	7.6/3.8	46	14.64	d,5	A537
	3600	575	182T	<b>U603</b>	182TTFR4005		2:1	<b>\$480</b>	E8	85.5	3.0	67	14.97		A666
	1800	200	182T	L633	182TTFR5327	*	2:1	<b>\$416</b>	E6	84.0	9.9	52	15.65	d,25	A644
	1800	200	182T	<b>U605</b>	182TTFR4038	*	10:1	<b>\$454</b>	E8	87.5	9.7	55	14.97	13	A644
	1800	230/460	56H	G387	56T17F5327		2:1	<b>\$418</b>	F1	84.0	8.6/4.3	48	14.82	68	A437
	1800	575	182T	<b>U608</b>	182TTFR4040	*	10:1	<b>\$454</b>	E8	87.5	3.4	98	14.97	d	A644
	1200	230/460	213T	E980	213TTFW4076	*	10:1	<b>\$667</b>	E8	87.5	9.2/4.6	130	20.23	d,68	A609

\* Requires nameplate modification

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

Continued on next page.

# General Purpose, Three Phase

## Totally Enclosed

### Rigid Base

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOK	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C-FACE KITS
<b>5</b>	3600	200	184T	<b>U611</b>	184TTFR4003		2:1	\$593	E8	87.5	14.3	86	15.97	13	A666
	3600	208-230/460	184T	E963	184TTFR4001 *		2:1	\$593	E8	87.5	13.4-12.4/6.2	81	15.97	d,68	A644
	3600	575	184T	<b>U614</b>	184TTFR4005		2:1	\$593	E8	87.5	5.0	78	15.97	13	A666
	1800	200	184T	<b>U616</b>	184TTFR4038 *		10:1	\$530	E8	87.5	15.0	82	15.97	13	A666
	1800	200	184T	H668	184TTFR7727 *		2:1	\$484	E6	84.0	15.2	78	17.47	d	A644
	1800	200	184T	H1668	184TTFW7727 *		2:1	\$484	E6	87.5	15.0	82	13.96	13	A666
	1800	575	184T	<b>U1619</b>	184TTFW4040 *		10:1	\$530	E8	87.5	5.3	70	13.96	13	A666
<b>7 1/2</b>	3600	200	213T	<b>U622</b>	213TTFW4003		2:1	\$775	E8	89.5	21.2	136	20.23		A609
	3600	575	213T	<b>U625</b>	213TTFW4005		2:1	\$775	E8	88.5	7.4	128	18.73		A609
	1800	200	213T	<b>U627</b>	213TTFW4028 *		10:1	\$760	E8	89.5	23.0	125	18.73		A609
	1800	200	213T	H669	213TTFW7028 *		2:1	\$695	E8	87.5	22.3	103	18.73	d	A609
	1800	208-230/460	213T	E1955	213TTFBA4026 *		10:1	\$760	E8	89.5	21.0-19.6/9.8	158	18.74	d,68	A204
	1800	575	213T	<b>U630</b>	213TTFW4030 *		10:1	\$760	E8	89.5	8.0	135	18.73	d	A609
	1200	230/460	254T	U632	254TTFL14076 *		10:1	\$1,261	E8	89.5	22.0/11.0	182	24.75	d,AL,68	A1209
<b>10</b>	3600	200	215T	<b>U634</b>	215TTFW4003		2:1	\$905	E8	89.5	27.6	152	20.23		A609
	3600	230/460	215T	E969	215TTFW4001 *		2:1	\$905	E8	89.5	24.0/12.0	128	20.23	d,68	A609
	3600	575	215T	<b>E821</b>	215TTFW4005		2:1	\$905	E8	89.5	9.6	145	20.23		A609
	1800	200	215T	H670	215TTFW7028 *		2:1	\$864	E6	88.5	28.8	130	20.23	d	A609
	1800	200	215T	<b>E822</b>	215TTFW4028 *		10:1	\$920	E8	89.5	29.9	125	20.23		A609
	1800	208-230/460	215T	E1956	215TTFBA4026 *		10:1	\$920	E8	89.5	27.6-25/12.5	163	20.24	d,68	A204
	1800	575	215T	<b>U640</b>	215TTFW4030 *		10:1	\$920	E8	89.5	10.4	138	20.23	d	A609
<b>15</b>	3600	200	254T	<b>U643</b>	254TTFL14004		2:1	\$1,256	E8	90.2	40.5	178	22.49	AL	A1209
	3600	230/460	215T	U670	215TTFW4007 *		2:1	\$1,256	E8	90.2	36.0/18.0	138	20.23	d,68	A609
	3600	575	254T	<b>U645</b>	254TTFL14005		2:1	\$1,256	E8	90.2	14.0	178	22.99	AL	A1209
	1800	200	254T	<b>U646</b>	254TTFL14027 *		10:1	\$1,248	E8	91.0	46.0	178	22.99	AL	A1209
<b>20</b>	1800	200	256T	<b>U651</b>	256TTFL14027 *		10:1	\$1,536	E8	91.0	58.5	247	26.24	AL	A1209
	1800	575	256T	<b>E998</b>	256TTFL14030		10:1	\$1,536	E8	91.0	20.4	286	26.24	AL	A1209

\* Requires nameplate modification

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

# General Purpose, Three Phase

## Totally Enclosed



THREE PHASE



**Applications:** General purpose use on pumps, fans, blowers, compressors, conveyors, and other industrial machinery installed in damp, dusty, or dirty environments. Additionally, cast iron frame motors may be suitable for the process industries.

- Features:**
- 1.15 Service Factor
  - Nameplated 60/50 hertz at next lowest horsepower
  - Will accept C-Face Kits as noted, also see Accessories section
  - Severe duty kits available, see Accessories section
  - Shaft slinger, regreasable bearings (182T and larger), lead lugs (364T and larger), and bearing caps on 444T and larger
  - Ball bearings, except where noted
  - UL Recognized and CSA Certified
  - Two year warranty on EISA efficient motors (bold blue Catalog Numbers)



### Rigid Base

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C-FACE KITS
<b>3/4</b>	1200	208-230/460	143T	H457	143TTFN8076	★	2:1	<b>\$371</b>	E6	74.0	3.1-3.2/1.6	46	12.04	68	A603
<b>1</b>	1800	200	143T	<b>E825</b>	143TTTN4028		1000:1	<b>\$366</b>	E1	82.5	3.7	50	10.43	N	A603
	1800	208-230/460	143T	E826	143TTTC4026	★	1000:1	<b>\$366</b>	E1	85.5	3.2-3.0/1.5	51	10.43	N,68	A603
	1800	575	143T	<b>E828</b>	143TTTN4030	★	1000:1	<b>\$366</b>	E1	82.5	1.3	50	10.43	d,N	A603
	1200	230/460	145T	E829	145TTTN4076	★	1000:1	<b>\$467</b>	E1	80.0	3.4/1.7	58	11.43	N,68	A655
	1200	575	145T	<b>U672</b>	145TTTN4080	★	1000:1	<b>\$467</b>	E1	80.0	1.3	57	11.43	N	A655
	900	230/460	182T	<b>L409A</b>	182TTFN4101	★	-----	<b>\$760</b>	E8	74.0	4.4/2.2	92	15.87	68	A644
<b>1 1/2</b>	3600	200	143T	<b>E831</b>	143TTTN4003		1000:1	<b>\$386</b>	E1	86.5	4.6	60	10.43	N	A603
	3600	208-230/460	143T	E833	143TTTN4001	★	1000:1	<b>\$386</b>	E1	82.5	4.4-4.0/2.0	51	10.43	N,68	A603
	3600	575	143T	<b>E835</b>	143TTTN4005		1000:1	<b>\$386</b>	E1	86.5	1.6	42	10.43	N	A603
	1800	200	145T	<b>U601</b>	145TTTN4032		1000:1	<b>\$406</b>	E1	84.0	5.1	62	11.43	N	A655
	1800	208-230/460	145T	E837	145TTTC4026	★	1000:1	<b>\$406</b>	E1	84.0	4.6-4.2/2.1	58	11.43	N,68	A655
	1800	575	145T	<b>E839</b>	145TTTN4035	★	1000:1	<b>\$406</b>	E1	84.0	1.8	62	11.43	N	A655
	900	230/460	184T	<b>L410A</b>	184TTFS14101	★	-----	<b>\$876</b>	E8	78.5	6.1/3.05	99	15.81	68	A644
<b>2</b>	3600	200	145T	<b>E841</b>	145TTTN4003		1000:1	<b>\$447</b>	E1	86.5	6.0	70	11.43	N	A655
	3600	208-230/460	145T	E842	145TTTN4001	★	1000:1	<b>\$447</b>	E1	84.0	5.8-5.4/2.7	66	11.43	N,68	A655
	3600	575	145T	<b>E844</b>	145TTTN4005		1000:1	<b>\$447</b>	E1	86.5	2.1	66	11.43	N	A655
	1800	200	145T	<b>U606</b>	145TTTN4030		1000:1	<b>\$447</b>	E1	85.5	6.9	64	11.43	N	A655
	1800	208-230/460	145T	E846	145TTTC4027	★	1000:1	<b>\$447</b>	E1	84.0	6.0-5.6/2.8	60	11.43	N,68	A655
	1800	575	145T	<b>E848</b>	145TTTN4040	★	1000:1	<b>\$47</b>	E1	85.5	2.4	64	11.43	N	A655
	900	230/460	213T	L411	213TTFS8103	★	---	<b>\$1,144</b>	E6	80.0	8.0/4.0	179	18.22	d,68	A206
	900	230/460	213T	<b>L411A</b>	213TTFN4103	★	-----	<b>\$1,231</b>	E8	82.5	7.5/3.75	189	18.22	68	A206
<b>3</b>	3600	208-230/460	182T	U602	182TTFS4001	★	2:1	<b>\$503</b>	E1	85.5	8.6-7.4/3.7	91	14.81	d,68	A644
	3600	575	182T	<b>U604</b>	182TTFS4005		2:1	<b>\$503</b>	E1	85.5	3.0	81	14.81		A644
	1200	208-230/460	213T	U610	213TTFC4076	★	10:1	<b>\$699</b>	E1	88.5	9.8-9.4/4.7	165	18.19	d,68	A652
	900	230/460	215T	L421	215TTFS8101	★	---	<b>\$1,490</b>	E6	81.5	11.4/5.7	151	19.72	d,68	A206
	900	230/460	215T	<b>L421A</b>	215TTFS14103	★	-----	<b>\$1,603</b>	E8	84.0	10.6/5.3	167	19.72	68	A206
<b>5</b>	3600	208-230/460	184T	U613	184TTFS4001	★	2:1	<b>\$622</b>	E1	87.5	13.0-12.4/6.2	106	15.81	d,68	A644
	3600	575	184T	<b>U615</b>	184TTFS4005	★	2:1	<b>\$622</b>	E1	87.5	4.9	106	15.81	d	A644
	1800	575	184T	<b>U620</b>	184TTFS4030	★	10:1	<b>\$556</b>	E1	87.5	5.2	102	15.81	d	A644
	1200	208-230/460	215T	U621	215TTFC4076	★	10:1	<b>\$1,007</b>	E1	89.5	16.2-16.0/8.0	191	19.61	d,68	A652
	900	230/460	254T	L412	254TTFA8102	★	---	<b>\$2,057</b>	E6	84.0	17.0/8.5	497	23.69	d,68	A239
	900	230/460	254T	<b>L412A</b>	254TTFA14103	★	-----	<b>\$2,213</b>	E8	87.5	15.0/7.5	534	23.52	68	A239
<b>7 1/2</b>	3600	575	213T	<b>U671</b>	213TTFS4005	★	2:1	<b>\$815</b>	E1	88.5	7.6	191	18.20	d	A206
	1800	575	213T	<b>U631</b>	213TTFS4030	★	10:1	<b>\$797</b>	E1	89.5	8.0	174	18.20	d	A206
	1200	208-230/460	254T	U633	254TTFC4076	★	10:1	<b>\$1,324</b>	E1	89.5	21.0-20.0/10.0	262	23.19	d,68	A653
	900	230/460	256T	L413	256TTFA8102	★	---	<b>\$2,618</b>	E6	84.0	24.0/12.0	292	25.44	d,68	A239
	900	230/460	256T	<b>L413A</b>	256TTFA14101	★	-----	<b>\$2,816</b>	E8	86.5	23.0/11.5	312	25.27	68	A239

Blue shaded areas are Cast Iron Frames

\* Requires nameplate modification

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

Continued on next page.

# General Purpose, Three Phase

## Totally Enclosed

### Rigid Base

THREE PHASE

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C-FACE KITS
<b>10</b>	3600	575	215T	<b>U637</b>	215TTFS4005		2:1	\$950	E1	90.2	9.6	184	19.70		A206
	1800	575	215T	<b>U641</b>	215TTFS4030	★	10:1	\$966	E1	89.5	10.0	222	19.70	d	A206
	1200	208-230/460	256T	<b>U642</b>	256TTFC4076	★	10:1	\$1,688	E1	89.5	28.3-26.2/13.1	298	24.92	d,68	A653
	900	230/460	284T	<b>L414A</b>	284TTFNA14102	★	----	\$3,337	E8	84.0	31.0/15.5	388	26.26	68	A239
<b>15</b>	3600	575	254T	<b>U638</b>	254TTFPA4005		2:1	\$1,319	E1	90.2	14.4	260	23.69		A239
	1800	575	254T	<b>U648</b>	254TTFNA4030	★	10:1	\$1,311	E1	91.0	15.6	308	23.52	d	A284
	1200	208-230/460	284T	<b>E978</b>	284TTFC4076	★	10:1	\$2,279	E1	90.2	44.7-40.4/20.2	358	26.26	d,68	A654
	900	230/460	286T	L415	286TTFPA8102	★	----	\$4,076	E6	86.5	45.0/22.5	387	28.97	d,68	A617
	900	230/460	286T	<b>L415A</b>	286TTFNA14106	★	----	\$4,385	E8	86.5	45.0/22.5	421	28.97	68	A617
<b>20</b>	3600	230/460	256T	<b>U649</b>	256TTFNA4001	★	2:1	\$1,732	E1	90.2	47.0/23.5	331	25.27	d,68	A284
	3600	575	256T	<b>U650</b>	256TTFNA4005		2:1	\$1,732	E1	90.2	18.8	310	25.27		A284
	1800	575	256T	<b>U653</b>	256TTFNA4030	★	10:1	\$1,613	E1	91.0	20.0	331	25.27	d	A284
	1200	208-230/460	286T	<b>E968</b>	286TTFC4076	★	10:1	\$2,723	E1	90.2	58.2-52.6/26.3	425	27.83	d,68	A654
	900	230/460	324T	<b>L416A</b>	324TTFS14101	★	----	\$5,284	E8	87.5	64.0/32.0	512	28.97	68	A619
<b>25</b>	3600	230/460	284TS	<b>E975</b>	284TSTFPA4001	★	2:1	\$2,092	E1	91.0	60.0/30.0	343	24.89	d,68	A617
	3600	575	284TS	<b>U654</b>	284TSTFPA4005		2:1	\$2,092	E1	91.0	24.0	545	24.89		A617
	1800	575	284T	<b>E800</b>	284TTFPA4030	★	10:1	\$1,901	E1	92.4	24.8	324	26.27	d	A617
	1800	200	284T	<b>U655</b>	284TTFPA4028		10:1	\$1,901	E1	92.4	71.0	374	31.87		A617
	900	230/460	326T	L417	326TTFPA8107	★	----	\$5,817	E6	88.5	78.0/39.0	608	30.32	d,68	A619
	900	230/460	326T	<b>L417A</b>	326TTFS14101	★	----	\$6,258	E8	88.5	78.0/39.0	625	30.32	68	A619
<b>30</b>	3600	575	286TS	<b>E819</b>	286TSTFPA4005		2:1	\$2,306	E1	91.0	28.8	406	26.30		A617
	1800	208-230/460	286TS	<b>E818</b>	286TSTFPA4036	★	10:1	\$2,308	E1	92.4	81.0-74.0/37.0	405	26.30	d,68	A617
	1800	575	286T	<b>E817</b>	286TTFPA4030	★	10:1	\$2,308	E1	92.4	29.6	406	27.76	d	A617
	900	460	364T	<b>L420</b>	364TTFS8101	★	----	\$6,526	E6	91.0	41.0	886	31.50	68,89	A395
<b>40</b>	1800	230/460	324TS	<b>E816</b>	324TSTFPA4036	★	2:1	\$2,985	E1	93.0	100/50.0	525	27.47	d,68	A619
	1800	575	324T	<b>E815</b>	324TTFPA4030	★	2:1	\$2,985	E1	93.0	40.0	555	28.97	d	A619
	1200	230/460	364T	<b>E988</b>	364TTFS4086	★	2:1	\$5,155	E1	93.0	102/51.0	900	31.50	d,68	A395
	900	460	365T	<b>L425</b>	365TTFS8115	★	----	\$8,085	E6	91.0	53.5	970	32.50	68,89	A395
<b>50</b>	1800	230/460	326T	<b>E962</b>	326TTFC4026	★	2:1	\$3,843	E1	93.0	117/58.5	653	30.32	d,68	A614
	1800	575	326T	<b>U659</b>	326TTFPA4030	★	2:1	\$3,843	E1	93.0	49.0	589	30.47	d	A619
	900	460	404T	<b>L426</b>	404TTFS8102	★	----	\$9,632	E6	92.4	69.0	1191	35.62	68,89	A223
<b>60</b>	1800	230/460	364T	<b>E1985</b>	364TTFCA4036	★	2:1	\$5,639	E1	95.0	138/69.0	991	36.61	68	N/A
	1800	575	364T	<b>U660</b>	364TTFS4040	★	2:1	\$5,639	E1	93.6	57.5	952	31.50	d	A395
	1200	230/460	404T	<b>E803</b>	404TTFS4086	★	2:1	\$6,957	E1	93.6	149/74.5	1219	35.62	d,68	A223
	900	460	405T	<b>L427</b>	405TTFS8114	★	----	\$11,169	E6	91.7	81.0	1340	37.12	68,89	A223

Blue shaded areas are Cast Iron Frames

\* Requires nameplate modification

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

Continued on next page.

# General Purpose, Three Phase

## Totally Enclosed

### Rigid Base

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C-FACE KITS
<b>75</b>	1800	230/460	365T	E957	365TTFS4036	*	2:1	\$7,207	E1	94.1	178/89.0	1025	32.50	d,68	A395
	1800	575	365T	<b>E805</b>	365TTFS4040	*	2:1	\$7,207	E1	94.1	71.0	1053	32.50	d	A395
	1200	230/460	405T	E806	405TTFS4086	*	2:1	\$8,361	E1	93.6	185/92.5	1300	37.12	d,68	A223
	900	460	444T	<b>L428</b>	444TTFS8106	*	----	\$14,875	E6	93.0	97.0	1820	41.25	68,89	A229
<b>100</b>	1200	230/460	444T	E809	444TTFS4086	*	2:1	\$11,766	E1	94.1	238/119	1697	41.25	d,68	A229
	900	460	445T	<b>L429</b>	445TTFN8115	*	----	\$18,794	E6	93.6	133	2377	43.19	68	A620
<b>125</b>	3600	460	444TS	E992	444TSTFS4001	*	2:1	\$13,436	E1	94.5	137	1719	37.50	d,PW	A232
	1800	460	444T	E987	444TTFS4036	*	2:1	\$11,214	E1	94.5	142	1786	41.25	d,PW,68	A229
	1800	460	444TS	E810	444TSTFS4026	*	2:1	\$11,214	E1	94.5	142	1787	37.50	d	A232
	900	460	445T	<b>L440</b>	445TTFN8102	*	----	\$21,852	E6	93.6	169	2377	43.19	H,RB,68	N/A
<b>150</b>	1800	460	445TS	E811	445TSTFN4026	*	2:1	\$13,638	E1	95.0	172	2070	39.44	d	A621
	1200	460	445T	E958	445TTFN4087	*	2:1	\$15,769	E1	95.0	182	2309	43.19	d,H,RB	N/A
	900	460	447/9	<b>L442</b>	449TTFS8111	*	----	\$24,652	E6	94.5	206	2872	51.69	H,RB,68	N/A
<b>200</b>	3600	460	445TS	E812	445TSTFN4005	*	2:1	\$20,109	E1	95.0	222	2262	39.44	d,H,68	A621
	1800	460	445TS	E813	445TSTFN4028	*	2:1	\$16,570	E1	95.0	225	2215	39.44	d	A621
	900	460	L447/9T	<b>L449</b>	449TTFS8110	*	----	\$25,074	E6	94.5	270	3225	51.69	H,RB,YD,68	N/A
<b>250</b>	3600	460	447/9TS	L451	449TSTFS8003	*	----	\$24,976	E9	95.0	280	2079	47.88	H,YD,68	A624
	3600	460	447/9TS	<b>L451A</b>	449TSTFS14007	*	----	\$26,869	E9	95.4	275	2079	48.11	H,YD,68	A624
	1800	460	445T	<b>L452</b>	445TTFN8040	*	----	\$18,916	E9	95.0	285	2395	43.19	H,RB,YD,68	N/A
	1800	460	447/9T	<b>L455</b>	449TTFS8028	*	----	\$20,335	E9	95.0	290	2802	51.69	H,YD,68	A623
	1800	460	447/9T	<b>L454</b>	449TTFS8038	*	----	\$20,335	E9	95.0	290	2775	51.69	H,RB,YD,68	N/A
	1800	575	445T	<b>L453</b>	445TTFN8041	*	----	\$18,916	E9	95.0	228	2394	43.19	RB	N/A
	1200	460	447/9T	<b>L456</b>	449TTFS8087	*	----	\$21,131	E9	95.4	300	2895	51.69	H,RB,YD,68	N/A
	1200	460	447/9T	<b>L457</b>	449TTFS8077	*	----	\$21,131	E9	95.4	300	3092	51.69	H,YD,68	A623
	900	460	L447/9T	<b>L471</b>	449TTFS18105	*	----	\$23,108	E6	94.5	330	3586	56.71	H,RB,YD,17	N/A
<b>300</b>	3600	460	447/9TS	<b>L459</b>	449TSTFS8002	*	----	\$28,760	E9	95.4	330	2633	47.88	H,YD,68	A624
	1800	460	447/9T	<b>L462</b>	449TTFS8037	*	----	\$21,396	E9	95.4	338	2717	51.69	H,RB,YD,68	N/A
	1800	575	447/9T	<b>L472A</b>	----	*	----	\$22,872	E9	95.4	330	2900	51.86	H,RB,YD	A623
	1800	460	447/9T	<b>L463</b>	449TTFS8027	*	----	\$22,872	E9	95.4	338	3041	51.69	H,YD,68	A623
	1200	460	L447/9T	<b>L465</b>	449TTFS8076	*	----	\$24,543	E9	95.4	360	3440	51.69	H,YD,17,68	A623
	1200	460	447/9T	<b>L464</b>	449TTFS8086	*	----	\$24,543	E9	95.4	360	3428	51.69	H,RB,YD,17,68	N/A
<b>350</b>	3600	460	447/9TS	<b>L466</b>	449TSTFS8001	*	----	\$33,035	E9	95.4	380	2931	47.88	H,YD,68	A624
	1800	460	L447/9T	<b>L467</b>	449TTFS8036	*	----	\$24,420	E9	95.4	400	3042	51.69	H,RB,YD	N/A
<b>400</b>	1800	460	447/9T	<b>L469A</b>	449TTFS14043	*	----	\$27,882	E9	95.4	469	3088	51.86	H,RB,17	A623

Blue shaded areas are Cast Iron Frames

\* Requires nameplate modification

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements



# General Purpose, Three Phase

## Totally Enclosed

THREE PHASE



**Applications:** General purpose use on gear reducers, pumps, machine tools, and other direct-coupled equipment installed in damp, dusty, or dirty environments. Additionally, cast iron frame motors may be suitable for the process industries.

- Features:**
- Ball bearings, mechanically locked on shaft end
  - Rated 60/50 hertz, 190/380 or 380 volt, at next lower horsepower (as noted)
  - 1.15 Service Factor (except as noted)
  - Rolled steel 56-145T frame motors accept brake kits, see Accessories section
  - UL Recognized and CSA Certified



### C-Face Footless

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/4	1800	208-230/460	56C	K252	5K49DN4130	*	-----	\$237	F1	67.4	1.1-1.2/0.6	16	9.52	N,20,24,68
	1800	575	56C	K405	56T17F2047	*	-----	\$237	F1	62.0	0.5	13	9.94	24
1/3	3600	208-230/460	56C	P101	56T34T5306	*	2:1	\$205	F1	64.0	1.7-2.0/1.0	18	9.94	N,68
	1800	208-230/460	56C	K253	5K33JNA943	*	-----	\$253	F1	68.8	1.5-1.6/0.8	16	10.60	24,68,111
	1800	575	56C	K522	5K33KN67	*	-----	\$253	F1	71.1	0.6	16	10.60	20,24,68
1/2	3600	208-230/460	56C	P102	56T34F5321	*	2:1	\$228	F1	66.0	2.1-2.2/1.1	21	11.82	68
	1800	208-230/460	56C	K254	5K35MNB114	*	-----	\$295	F1	76.1	2.1-2.2/1.1	17	10.93	19,24
	1800	575	56C	K469	5K42HN4137	*	-----	\$295	F1	76.9	0.8	22	11.01	19,24,68
	1200	208-230/460	56C	K1316	5K49MN6020	*	-----	\$464	F1	72.0	2.6-2.6/1.3	27	11.44	19,24
3/4	3600	208-230/460	56C	P103	56T34F5322	*	2:1	\$270	F1	72.0	3.0-3.2/1.6	22	11.82	68
	1800	208-230/460	56C	K255	5K36PNB116	*	-----	\$325	F1	78.9	2.8-2.8/1.4	20	11.36	19,24,68
	1800	575	56C	K523	5K36PN254	*	-----	\$325	F1	73.4	1.3	20	11.36	19,24,68
	1200	208-230/460	143TC	K1318	5K49PN8030	*	-----	\$480	E6	76.1	2.9-2.8/1.4	31	12.56	24
	1200	208-230/460	56C	K1317	5K49PN6025	*	-----	\$472	F1	76.1	2.9-2.9/1.4	31	12.44	24
	1200	208-230/460	56C	K404	56T11F5320	*	2:1	\$392	F1	74.0	3.1-3.2/1.6	26	12.32	68
1	3000	208-220/440	56C	K633	5K36MN4152	*	-----	\$400	F1	77.0	3.6-3.6/1.8	20	11.36	17,24,68
	3600	208-230/460	56C	P104	56T34F5323	*	2:1	\$303	F1	74.0	3.7-3.7/1.85	24	11.82	68
	1800	208-230/460	56C	K256	5K49MN4104	*	-----	\$332	F1	79.2	3.6-3.8/1.9	27	11.44	19,24,68
	1800	208-230/460	143TC	<b>C220A</b>	143TTFR4329	*	2:1	\$375	E8	82.5	3.2-3.0/1.5	35	12.87	68
	1800	575	56C	K524	5K49MN4112	*	-----	\$332	F1	78.2	1.7	27	11.44	19,24
	1800	575	143TC	C230	143TTFR5333	*	2:1	\$348	E6	77.0	1.5	26	12.37	
	1800	575	143TC	<b>C230A</b>	143TTFR4333	*	2:1	\$375	E8	82.5	1.2	32	12.37	
	1200	208-230/460	145TC	C250	145TTFR5378	*	2:1	\$436	E6	77.0	3.95-4.0/2.0	32	12.87	d,68
	1200	208-230/460	145TC	<b>C250A</b>	145TTFR4378	*	2:1	\$469	E8	80.0	3.6-3.4/1.7	39	13.37	68
	1200	208-230/460	56C	K1490	5K49PN6164	*	-----	\$483	F1	74.2	3.9-3.8/1.9	31	12.44	24
	1200	208-230/460	56C	K407	56T11F5321	*	2:1	\$419	F1	77.0	3.8-3.6/1.8	33	12.82	68
	1 1/2	3600	208-230/460	56C	P105	56T34F5324	*	2:1	\$352	F1	80.0	4.6/2.3	25	11.82
3600		208-230/460	56C	KG235	5K49PN2348	*	-----	\$434	F1	81.7	4.8-4.2/2.1	31	12.44	24,68,111
3600		208-230/460	143TC	C201	143TTFR5302	*	2:1	\$360	E6	80.0	4.7-4.6/2.3	35	11.87	d,68
3600		208-230/460	143TC	<b>C201A</b>	143TTFR4302	*	2:1	\$388	E8	82.5	4.4-4.0/2.0	41	11.87	68
1800		208-230/460	56C	K257	5K49SN4117	*	-----	\$365	F1	81.7	4.7-4.4/2.2	35	12.44	19,24,68
1800		208-230/460	145TC	<b>C221A</b>	145TTFR4332	*	2:1	\$436	E8	84.0	4.6-4.4/2.2	38	14.37	68
1800		575	56C	G548	56T17F5320	*	2:1	\$365	F1	80.0	1.9	31	12.32	
1800		575	145TC	C231	145TTFR5340	*	2:1	\$405	E6	80.0	1.9	29	12.37	
1800		575	145TC	<b>C231A</b>	145TTFR4340	*	2:1	\$436	E8	84.0	1.8	38	14.37	
1200		230/460	182TC	<b>C251A</b>	---	*	2:1	\$845	E8	75.5	5.0/2.5	89	17.93	F,68
2		3600	208-230/460	56C	P106	56T34F5325	*	2:1	\$408	F1	80.0	6.0-6.0/3.0	29	12.32
	3600	208-230/460	56C	KG237	5K49SN2187	*	-----	\$497	F1	83.0	5.8-5.4/2.7	35	12.97	24,68,110
	3600	208-230/460	145TC	<b>C202A</b>	145TTFR4306	*	2:1	\$451	E8	84.0	5.6-5.2/2.6	38	13.37	68
	1800	208-230/460	56C	K1491	5K49ZN4253	*	-----	\$393	F1	83.6	6.2-5.8/2.9	45	14.25	24,68
	1800	208-230/460	145TC	K330	5K49ZN8079	*	-----	\$433	E6	83.6	6.2-5.8/2.9	49	14.40	d,24,68
	1800	208-230/460	145TC	<b>K2033</b>	5KE48WN8365	*	-----	\$533	E6	84.0	6-5.6/2.8	43	13.84	24,68
	1800	575	56C	G549	56T17F5329	*	2:1	\$393	F1	82.5	2.3	41	13.82	
	1800	575	145TC	C232	145TTFR5341	*	2:1	\$433	E6	82.5	2.3	41	13.87	
	1800	575	145TC	<b>C232A</b>	145TTFR14048	*	2:1	\$466	E8	84.0	2.3	49	14.87	
	1200	230/460	184TC	<b>C252A</b>	---	*	2:1	\$947	E8	80.0	6.7/3.35	89	15.69	F,24,68

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

\* Requires nameplate modification

Continued on next page.

# General Purpose, Three Phase

## Totally Enclosed

### C-Face Footless

THREE PHASE

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>3</b>	3600	208-230/460	56C	P107	56T34F5326	*	2:1	\$443	F1	84.0	8.4-7.6/3.8	38	13.32	68
	3600	208-230/460	145TC	<b>C236A</b>	145TTFR4307	*	2:1	\$451	E8	85.8	8.4-7.6/3.8	39	13.37	68
	3600	208-230/460	182TC	C203	182TTFR7325	*	2:1	\$535	E6	82.5	8.6-7.8/3.9	72	15.69	d,F,24,68
	3600	208-230/460	182TC	<b>C203B</b>	182TTFW14004	*	2:1	\$884	E8	85.5	8.2-7.4/3.7	65	13.97	F,13,24,68
	1800	208-230/460	182TC	<b>C223B</b>	182TTFW4027	*	2:1	\$552	E8	87.5	8.8-8.4/4.2	64	12.97	13,68
	1800	230/460	56C	K640	5K49QN4609	*	-----	\$484	F1	84.7	8.2/4.1	54	14.89	17,24,68
	1200	230/460	213TC	<b>C253A</b>	213TTFW14081	*	2:1	\$787	E8	81.5	9.6/4.8	108	19.46	F,24,68
<b>5</b>	3600	208-230/460	184TC	<b>C1204</b>	184TTFR8002	*	2:1	\$614	E8	85.5	13.6-12.4/6.2	67	13.97	13,68
	1800	208-230/460	184TC	C224	184TTFR8641	*	2:1	\$576	E6	86.5	13.6-13.0/6.5	92	16.69	d,F,24,68
	1800	208-230/460	184TC	<b>C1224</b>	184TTFR8641	*	2:1	\$576	E8	87.5	16-14.8/7.4	70	13.97	13,68
	1200	208-230/460	215TC	<b>C254A</b>	215TTFW14084	*	2:1	\$1,096	E8	87.5	16.0-14.8/7.4	179	20.96	24,68
<b>7 1/2</b>	3600	208-230/460	184TC	C238	184TTFR8617	*	2:1	\$735	E6	85.5	20.0-19.0/9.5	89	16.69	d,F,24
	3600	208-230/460	184TC	<b>C238B</b>	184TTFW14021	*	2:1	\$791	E8	88.5	18.5-16.8/8.4	95	15.97	13,68
	3600	208-230/460	213TC	C205	213TTFW7007	*	2:1	\$811	E6	84.0	21.0-19.2/9.6	75	19.46	d,F,24,68
	3600	208-230/460	213TC	<b>C205A</b>	213TTFW14011	*	2:1	\$873	E8	88.5	21.0-19.2/9.6	84	19.46	F,24,68
	1800	208-230/460	213TC	<b>C225A</b>	213TTFW14045	*	2:1	\$766	E8	89.5	22.0-19.4/9.7	110	19.46	F,24,68
	1200	230/460	254TC	<b>C255A</b>	254TTFL14078	*	-----	\$1,481	E8	89.5	22.0/11.0	148	23.24	AL,F,24,68
<b>10</b>	3600	208-230/460	215TC	<b>C206A</b>	215TTFW14024	*	2:1	\$1,044	E8	89.5	27.0-24.0/12.0	142	20.96	F,24,68
	1800	208-230/460	215TC	<b>C226A</b>	215TTFW14041	*	2:1	\$1,006	E8	89.5	28.0-26.0/13.0	138	20.96	d,F,24,68
	1200	230/460	256TC	<b>C256A</b>	256TTFNA14086	*	-----	\$1,831	E8	89.5	26.0/13.0	375	25.94	F,24,68
<b>15</b>	3600	208-230/460	215TC	<b>C237A</b>	215TTFW14022	*	2:1	\$1,327	E8	90.2	39.0-36.0/18.0	154	20.96	F,24,68
	3600	230/460	254TC	<b>C207A</b>	254TTFL14009	*	-----	\$1,443	E8	90.2	35.0/17.5	210	23.24	AL,F,24,68
	1800	208-230/460	254TC	C227	254TTFL5040	*	-----	\$1,329	E6	88.5	43.0-38.5/19.3	179	23.24	d,AL,F,24
	1800	208-230/460	254TC	<b>C227A</b>	254TTFL14037	*	-----	\$1,429	E8	91.0	42.0-40.0/20.0	199	23.24	AL,F,24,68

Blue shaded areas are Cast Iron Frames

\* Requires nameplate modification

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

# General Purpose, Three Phase

## Totally Enclosed



### Features:

- Ball bearings, mechanically locked on shaft end
- 1.15 Service Factor (except as noted)
- Class F insulation (except as noted)
- Rated 60/50 hertz, 190/380 or 380 volt, at next lower horsepower (as noted)
- 56-145T frame motors, accept brake kits, see accessory kits
- UL Recognized and CSA Certified
- Two year warranty on EPAct and NEMA Premium efficient (bold blue catalog numbers)

### ◆ Additional features for "Four-In-One" motors only:

- CR<sup>200</sup> Corona resistant magnet wire
- Bolt-on, removable rigid base
- Suitable for horizontal and vertical mounting
- Will accept drip cover kits, see Accessories section



## C-Face Footed (Rigid and Removable Base)

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	"FOUR IN-ONE"	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/4</b>	1800	208-230/460	56C		G565	56T17F2051		2:1	<b>\$242</b>	F1	62.5	1.2-1.4/0.7	14	9.94	BI,24,68
	1200	208-230/460	56C	◆	G586	56T11F5311	*	2:1	<b>\$343</b>	F2	52.5	1.7-2.0/1.0	19	11.31	6,13,68
<b>1/3</b>	3600	208-230/460	56C	◆	D390	56T34T5303	*	1000:1	<b>\$217</b>	F2	66.0	1.7-1.8/0.9	20	10.43	N,6,13,24,68
	3600	575	56C	◆	K702	56T34T5309	*	1000:1	<b>\$217</b>	F2	64.0	0.8	19	9.93	d,N,6,13,24
	1800	208-230/460	56C		K1322	5K42FN4035	*	-----	<b>\$270</b>	F1	69.2	1.5-1.6/0.8	20	11.01	20,24,68
	1800	208-230/460	56C	◆	G580	56T17T5305	*	1000:1	<b>\$278</b>	F2	68.0	1.4-1.6/0.8	20	9.93	N,6,13,24,68
	1800	575	56C	◆	K703	56T17T5316	*	1000:1	<b>\$278</b>	F2	68.0	0.7	20	9.93	N,6,13,24
	1200	208-230/460	56C	◆	G587	56T11F5310	*	10:1	<b>\$361</b>	F2	62.0	1.9-2.2/1.1	21	11.31	6,13,68
<b>1/2</b>	3600	208-230/460	56C		G569	56T34F5308		2:1	<b>\$233</b>	F1	66.0	2.1-2.2/1.1	23	11.82	BI,13,68
	3600	208-230/460	56C	◆	D391	56T34F5301	*	10:1	<b>\$242</b>	F2	66.0	2.1-2.2/1.1	22	11.81	6,13,68
	3600	575	56C	◆	K704	56T34F5348	*	10:1	<b>\$242</b>	F2	66.0	0.9	22	11.81	6,13
	1800	208-230/460	56C		K1324	5K42HN4034	*	-----	<b>\$299</b>	F1	74.7	2.3-2.2/1.1	22	11.01	19,24,68
	1800	208-230/460	56C	◆	G581	56T17F5321	*	10:1	<b>\$308</b>	F2	68.0	2.3-2.4/1.2	24	11.81	6,13,68
	1800	575	56C	◆	K705	56T17F5336	*	10:1	<b>\$308</b>	F2	68.0	1.0	23	11.81	6,13
	1200	208-230/460	56C	◆	G588	56T11F5309	*	10:1	<b>\$393</b>	F2	68.0	2.4-2.7/1.35	23	11.81	6,13,68
<b>3/4</b>	3600	208-230/460	56C	◆	D392	56T34F5302	*	4:1	<b>\$282</b>	F2	68.0	3.0-3.2/1.6	23	11.81	6,13,68
	3600	575	56C	◆	K706	56T34F5349	*	4:1	<b>\$282</b>	F2	68.0	1.3	23	11.81	6,13
	1800	208-230/460	56C		K258	5K49KN4124	*	-----	<b>\$330</b>	F1	74.3	3.3-3.0/1.5	24	11.41	19,24,68
	1800	208-230/460	56C	◆	G582	56T17F5322	*	10:1	<b>\$337</b>	F2	75.5	2.6-3.0/1.5	40	11.81	6,13,68
	1800	575	56C	◆	K707	56T17F5337	*	10:1	<b>\$337</b>	F2	75.5	1.2	24	11.81	6,13
<b>1</b>	1200	208-230/460	56C	◆	G589	56T11F5308	*	4:1	<b>\$405</b>	F2	74.0	3.1-3.2/1.6	27	12.31	6,13,68
	3600	208-230/460	56C		K500	5K38RN106	*	-----	<b>\$307</b>	F1	78.5	3.2-3.0/1.5	32	12.4	19,24,68
	3600	208-230/460	56C	◆	D393	56T34F5303	*	4:1	<b>\$314</b>	F2	74.0	3.7-3.7/1.85	25	11.81	6,13,68
	3600	575	56C	◆	K708	56T34F5350	*	4:1	<b>\$314</b>	F2	77.0	1.5	25	11.81	6,13
	1800	208-230/460	56C		K259	5K49MN4110	*	-----	<b>\$336</b>	F1	79.2	3.6-3.8/1.9	27	11.41	19,24,68
	1800	208-230/460	143TC		K2039	5KE49UN8429	*	-----	<b>\$441</b>	E8	77.0	3.4-3.2/1.6	40	12.12	d,24
	1800	208-230/460	56HC	◆	G583	56T17F5323	*	10:1	<b>\$344</b>	F2	77.0	3.5-3.6/1.8	26	12.31	5,6,13,68
	1800	575	56HC	◆	K709	56T17F5338	*	4:1	<b>\$344</b>	F2	77.0	1.5	27	12.31	5,6,13
1200	208-230/460	56HC	◆	K701	56T11F5307	*	4:1	<b>\$433</b>	F2	77.0	3.95-4.0/2.0	32	12.81	5,6,13,68	

\* Requires nameplate modification

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

Continued on next page.

# General Purpose, Three Phase

## Totally Enclosed

### C-Face Footed (Rigid and Removable Base)

HP	RPM	VOLTS	FRAME	"FOUR IN-ONE"	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	
<b>1 1/2</b>	3600	230/460	143TC		U733	143TTFR4010	*	2:1	\$436	E8	82.5	4.0/2.0	35	12.87	d,68	
	3600	208-230/460	56C	◆	D394	56T34F5304	*	2:1	\$375	F2	80.0	4.7-4.6/2.3	25	11.81	6,13,68	
	3600	575	56C	◆	K721	56T34F5351	*	2:1	\$375	F2	80.0	1.8	26	11.81	6,13	
	1800	200	145TC		<b>U703</b>	145TTFR4046		10:1	\$415	E8	84.0	5.1	44	14.37		
	1800	208-230/460	56HC		K260	5K49SN4119	*	----	\$369	F1	81.7	4.7-4.4/2.2	35	12.44	19,24,50	
	1800	230/460	145TC		U704	145TTFR4058	*	10:1	\$415	E8	84.0	4.4/2.2	44	14.37	d,68	
	1800	575	145TC		<b>U705</b>	145TTFR4052		10:1	\$415	E8	84.0	1.8	44	14.37	6	
	1800	208-230/460	56HC	◆	G584	56T17F5324	*	10:1	\$376	F2	80.0	4.8-4.8/2.4	30	12.31	5,6,13,68	
	1800	575	56HC	◆	K722	56T17F5339	*	2:1	\$376	F2	80.0	1.9	29	12.31	5,6,13	
	1200	230/460	56HC	◆	K700	56T11F5328	*	2:1	\$460	F2	77.5	5.8/2.9	42	14.32	5,6,13,17	
	<b>2</b>	3600	208-230/460	56HC	◆	D395	56T34F5305	*	2:1	\$433	F2	80.0	6.0-6.0/3.0	29	12.31	5,6,13,68
		3600	575	56HC	◆	K723	56T34F5352	*	2:1	\$433	F2	80.0	2.4	30	12.31	5,6,13
1800		200	145TC		<b>U706</b>	145TTFR4070		10:1	\$445	E8	84.0	6.4	42	13.87		
1800		208-230/460	56HC		K806	56T17F5330		2:1	\$410	F1	82.5	6.0-5.8/2.9	40	13.82	Bl,5,68	
1800		230/460	145TC		U707	145TTFR4040	*	10:1	\$445	E8	84.0	5.6/2.8	42	13.87	d,68	
1800		575	145TC		<b>U708</b>	145TTFR4126		10:1	\$445	E8	84.0	2.2	42	13.87		
1800		208-230/460	56HC	◆	G585	56T17F5325	*	10:1	\$409	F2	82.5	6.0-5.8/2.9	40	13.81	5,6,13,68	
1800		575	56HC	◆	K724	56T17F5340	*	4:1	\$409	F2	82.5	2.3	39	13.81	5,6,13	
1200		230/460	184TC	◆	C380	184TTFR4380	*	10:1	\$741	E8	86.5	6.0/3.0	84	16.50	d,6,24,68	
1200		230/460	184TC	◆	C1380	184TTFW4380	*	10:1	\$741	E8	86.5	6.0/3.0	69	16.50	d,6,13,24,68	
1200		230/460	184TC	◆	<b>C380B</b>	184TTFW16051	*	10:1	\$866	E8	88.5	6.4/3.2	74	14.97	6,13,24,68	
<b>3</b>		3600	200	182TC		<b>U736</b>	182TTFR4013		2:1	\$622	E8	85.5	8.5	76	15.69	24,13
	3600	230/460	145TC		K2088	5KE49WN8419	*	10:1	\$548	E8	85.5	7.6/3.8	46	13.75	d,18	
	3600	208-230/460	56HC	◆	D396	56T34F5306	*	2:1	\$481	F2	84.0	8.4-7.6/3.8	40	13.31	5,6,13,68	
	3600	575	56HC	◆	K725	56T34F5353	*	2:1	\$481	F2	84.0	3.1	40	13.31	5,6,13	
	3600	208-230/460	182TC	◆	C381	182TTFR4320	*	10:1	\$756	E8	85.5	8.2-7.4/3.7	76	15.50	d,6,24,68	
	3600	208-230/460	182TC	◆	<b>C381B</b>	182TTFW16021	*	10:1	\$884	E8	86.5	8.2-7.4/3.7	75	14.47	6,13,24,68	
	1800	230/460	56HCZ	◆	G590	56T17F5355	*	----	\$460	F2	85.5	8.6/4.3	48	14.87	Z,5,6,13,17,68	
	1800	575	56HCZ	◆	G591	56T17F5356	*	2:1	\$460	F2	85.5	3.4	48	14.87	Z,5,6,13,17	
	1800	208-230/460	182TC	◆	<b>C382B</b>	182TTFW16030	*	10:1	\$790	E8	89.5	8.6-7.8/3.9	75	14.47	6,13,24,68	
	1800	575	182TC	◆	C383	182TTFR4345	*	10:1	\$676	E8	87.5	3.4	76	15.50	d,6,24	
	1800	575	182TC	◆	<b>C383A</b>	182TTFW4345	*	10:1	\$676	E8	87.5	3.4	76	15.50	d,6,13,24	
	1800	575	182TC	◆	<b>C383B</b>	---	*	10:1	\$790	E8	89.5	3.4	89	15.50	6,13,24	
1200	208-230/460	213TC	◆	C384	213TTFW4380	*	10:1	\$945	E8	87.5	9.6-9.2/4.6	114	20.97	d,6,24,68		
1200	208-230/460	213TC	◆	<b>C384A</b>	213TTFW16078	*	10:1	\$1,105	E8	89.5	9.2-8.8/4.4	123	20.97	6,24,68		
<b>5</b>	3600	200	184TC		<b>U738</b>	184TTFR4013		2:1	\$731	E8	87.5	14.2	90	16.69	24,13	
	3600	208-230/460	184TC	◆	C385	184TTFR4320	*	10:1	\$807	E8	87.5	13.5-12.5/6.2	81	16.50	d,6,24,68	
	3600	208-230/460	184TC	◆	<b>C385B</b>	184TTFW16006	*	10:1	\$944	E8	88.5	13.1-12.0/6.0	94	14.97	13,24,68	
	1800	230/460	184TC	◆	C386A	184TTFW4340	*	10:1	\$712	E8	87.5	14.8/7.4	71	13.97	d,13,24,68	
	1800	230/460	184TC	◆	<b>C386B</b>	184TTFW16027	*	10:1	\$833	E8	89.5	12.6/6.3	85	14.97	13,24,68	
	1800	575	184TC	◆	C387	184TTFR4345	*	10:1	\$712	E8	87.5	5.2	86	16.50	d,6,24	
	1800	575	184TC	◆	C387A	184TTFW4345	*	10:1	\$712	E8	87.5	5.2	72	16.50	d,6,13,24,68	
	1800	575	184TC	◆	<b>C387B</b>	---	*	10:1	\$833	E8	89.5	5.2	72	16.50	6,13,24,68	
	1200	208-230/460	215TC	◆	<b>C388A</b>	215TTFW16079	*	10:1	\$1,127	E8	90.2	15.0-14.0/7.0	157	22.22	6,13,24,68	

\* Requires nameplate modification

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

Continued on next page.

# General Purpose, Three Phase

## Totally Enclosed

### C-Face Footed (Rigid and Removable Base)

HP	RPM	VOLTS	FRAME	"FOUR IN-ONE"	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>7 1/2</b>	3600	200	213TC		<b>U740</b>	213TTFW4007		2:1	<b>\$958</b>	E8	89.5	21.2	118	20.97	24
	3600	575	213TC		<b>U742</b>	213TTFW4008		2:1	<b>\$958</b>	E8	89.5	7.4	118	20.97	24
	3600	208-230/460	213TC	◆	<b>C389A</b>	213TTFW16008	★	10:1	<b>\$1,225</b>	E8	90.2	19.6-17.8/8.9	125	20.97	6,24,68
	1800	208-230/460	213TC	◆	<b>C390A</b>	213TTFW16035	★	10:1	<b>\$1,105</b>	E8	91.7	21.0-18.6/9.3	157	22.22	6,24,68
	1800	575	213TC	◆	<b>C391</b>	213TTFW4345	★	10:1	<b>\$945</b>	E8	89.5	8.0	122	20.97	d,6,24
	1800	575	213TC	◆	<b>C391A</b>	213TTFW16036	★	10:1	<b>\$1,105</b>	E9	91.7	7.5	157	22.22	6,24
<b>10</b>	3600	200	215TC		<b>U743</b>	215TTFW4013		2:1	<b>\$1,012</b>	E8	89.5	27.6	175	20.97	24
	3600	208-230/460	215TC	◆	C392	215TTFW4320	★	10:1	<b>\$1,090</b>	E8	89.5	27.0-24.0/12.0	128	20.97	d,6,24,68
	3600	208-230/460	215TC	◆	<b>C392A</b>	215TTFW16005	★	10:1	<b>\$1,275</b>	E8	91.7	26.4-23.6/11.8	139	22.22	6,24,68
	1800	200	215TC		<b>U718</b>	215TTFW4033		10:1	<b>\$957</b>	E8	89.5	29.9	128	20.97	24
	1800	208-230/460	215TC	◆	C393	215TTFW4340	★	10:1	<b>\$1,039</b>	E8	89.5	28.0-26.0/13.0	170	20.97	d,6,24,68
	1800	208-230/460	215TC	◆	<b>C393A</b>	215TTFW16041	★	10:1	<b>\$1,215</b>	E8	91.7	28.0-26.0/13.0	189	22.22	6,24,68
	1800	575	215TC	◆	<b>C394</b>	215TTFW4345		10:1	<b>\$1,039</b>	E8	89.5	10.4	191	20.97	6,24
	1800	575	215TC	◆	<b>C394A</b>	---		10:1	<b>\$1,215</b>	E8	91.7	10.9	208	22.22	6,24
<b>15</b>	1800	200	254TC		<b>U721</b>	254TTFW4033		10:1	<b>\$1,436</b>	E8	91.0	46.0	189	23.24	AL,24
	1800	575	254TC		<b>U723</b>	254TTFW4035		10:1	<b>\$1,436</b>	E8	91.0	16.0	236	23.24	AL,24
<b>20</b>	3600	230/460	256TC		<b>U815</b>	256TTFNA14004	★	2:1	<b>\$1,933</b>	E8	90.2	47.0/23.5	325	25.76	d,24,68
<b>25</b>	3600	230/460	284TSC		<b>U749</b>	284TSTFPA14003	★	2:1	<b>\$2,397</b>	E8	91.0	60.0/30.0	385	24.76	d,24,68
	1800	208-230/460	284TC		<b>U725</b>	284TTFPA4027	★	10:1	<b>\$2,200</b>	E8	92.4	67.0-62.0/31.0	352	26.27	d,24,68
<b>30</b>	3600	230/460	286TSC		<b>U750</b>	286TSTFPA14002	★	2:1	<b>\$2,610</b>	E8	91.0	72.0/36.0	392	26.26	d,24,68
<b>40</b>	3600	230/460	324TSC		<b>U830</b>	324TSTFPA14003	★	2:1	<b>\$3,455</b>	E8	91.7	95.0/47.5	487	27.47	d,24,68
	1800	230/460	324TC		<b>U727</b>	324TTFPA4028	★	2:1	<b>\$3,415</b>	E8	92.4	100/50.0	544	28.97	d,24,68
<b>50</b>	3600	230/460	326TSC		<b>U834</b>	326TSTFPA14003	★	2:1	<b>\$4,623</b>	E8	92.4	115/57.5	543	28.97	d,24,68

Blue shaded areas are Cast Iron Frames

\* Requires nameplate modification

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

### Brake Kits for 56-143-145 frames ONLY

TORQUE (LB-FT)	COIL VOLTAGE	CAT. NO.	STOCK	LIST (LOOSE)	LIST (INSTALLED)	MULT. SYMB.	WEIGHT
<b>3</b>	208-230/460	A301	★	<b>\$398</b>	<b>\$563</b>	S4	10
	208-230/460	A1301	★	<b>\$398</b>	<b>\$563</b>	S4	10
	575	A297	★	<b>\$398</b>	<b>\$563</b>	S4	10
	575	A1297	★	<b>\$398</b>	<b>\$563</b>	S4	3
<b>6</b>	208-230/460	A302	★	<b>\$469</b>	<b>\$632</b>	S4	11
	208-230/460	A1302	★	<b>\$469</b>	<b>\$632</b>	S4	10
	575	A298	★	<b>\$469</b>	<b>\$632</b>	S4	11
	575	A1298	★	<b>\$469</b>	<b>\$632</b>	S4	10
<b>10</b>	208-230/460	A303	★	<b>\$580</b>	<b>\$737</b>	S4	10
	208-230/460	A1303	★	<b>\$580</b>	<b>\$737</b>	S4	10
	575	A299	★	<b>\$580</b>	<b>\$737</b>	S4	10
	575	A1299	★	<b>\$580</b>	<b>\$737</b>	S4	10

### Drip Cover Kits (Four-In-One)

CAT. NO.	STOCK	FRAME	LIST PRICE	MULT. SYMB.	WEIGHT
A234	★	56-143T-145T	<b>\$24</b>	S4	2
A197	★	182T-184T	<b>\$27</b>	S4	3
A199	★	213T-215T	<b>\$31</b>	S4	5




# NEMA Premium® XRI® Efficiency Three Phase, Totally Enclosed

**Applications:** General purpose use on compressors, pumps, conveyors, blowers, and other machinery in dirty and dusty environments. Substantial energy savings can be realized when using these high efficiency motors. Guaranteed efficiencies offer an **eXtra Return** on your **I**nvestment when using these premium efficiency motors on high cycle or long run time applications.


**General Purpose:**

**Rigid Base**




- 56 - 215T frames - Rolled Steel
- 254 - 256T frames - Aluminum

**C-Face Footed (Rigid Base)**



**Blue Chip®:**

**Rigid Base**



- 143T - 5011 frames - Cast Iron (shaded)



**Features:**

**Meets or exceeds NEMA Premium® efficiencies, except where noted**  
**NEMA Premium® models are in compliance with EISA2007**

- Suitable for use on a VFD. Variable Torque and Constant Torque (as noted)
- 1.15 Service Factor on sinewave, 1.0 Service Factor on IGBT power
- F1 conduit box on Rigid Base, F3 on C-Face Footed (Rigid Base) motors
- Shaft slinger
- Class F insulation
- 1.15 Service Factor
- Ball bearings (except as noted)
- C-Face Footed models are rated 60/50 Hz, same HP
- Motors accept C-face kits, as noted
- UL Recognized, CSA Certified and CE Mark
- Three year warranty

**Models through 40 HP are capable of modification as follows (contact factory to confirm):**

- 1.25 Service Factor (sinewave only)
- 50Hz at same HP, 1.0 Service Factor (sinewave only)
- Certain combinations of existing and new nameplate markings are not possible (contact factory to confirm)
- Any nameplate changes are subject to modification charges (see MOD Central section)
- Contact Marathon Electric for optional nameplate markings on 50 HP and larger

**Rigid Base**

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM	FOOT NOTES	C-FACE KITS
<b>1</b>	3600	200	56H	<b>E2150</b>	56T34F16001		10:1	\$540	E9	80.0	3.2	24	11.31		A665
	3600	230/460	56H	<b>E2100</b>	56T34F15940	*	10:1	\$540	E9	80.0	2.8/1.4	24	11.31		A665
	3600	575	56H	<b>E2125</b>	56T34F16020		10:1	\$540	E9	80.0	1.1	24	11.31		A665
	1800	200	143T	<b>E2151</b>	143TTFR16038	*	10:1	\$465	E9	85.5	3.7	32	13.75		A642
	1800	230/460	143T	<b>E2101</b>	143TTFR15642	*	10:1	\$465	E9	85.5	3.2/1.6	32	13.75		A642
	1800	575	143T	<b>E2126</b>	143TTFR16040	*	10:1	\$465	E9	85.5	1.3	32	13.75		A642
	1200	200	145T	<b>E2152</b>	---		10:1	\$555	E9	82.5	4.4	42	13.75		A642
	1200	230/460	145T	<b>E2102</b>	145TTFR16078		10:1	\$555	E9	82.5	3.8/1.9	42	13.75		A642
	1200	575	145T	<b>E2127</b>	145TTFR16080		10:1	\$555	E9	82.5	1.5	42	13.75		A642
	<b>1 1/2</b>	3600	200	143T	<b>E2153</b>	143TTFR16001		10:1	\$561	E9	84.0	4.6	37	13.75	
3600		230/460	143T	<b>E2103</b>	143TTFR15582	*	10:1	\$561	E9	84.0	4.0/2.0	37	13.75		A642
3600		575	143T	<b>E2128</b>	143TTFR16020		10:1	\$561	E9	84.0	1.6	37	13.75		A642
3600		230/460	143T	<b>E351</b>	143TTTN6001		20:1	\$655	E9	86.5	4.0/2.0	54	10.43	N	A603
1800		200	145T	<b>E2154</b>	145TTFR16038	*	10:1	\$478	E9	86.5	5.5	34	13.75		A642
1800		230/460	145T	<b>E2104</b>	145TTFR16033	*	10:1	\$478	E9	86.5	4.8/2.4	34	13.75		A642
1800		575	145T	<b>E2129</b>	145TTFR16040	*	10:1	\$478	E9	86.5	1.9	34	13.75		A642
1200		200	182T	<b>E2155</b>	---		10:1	\$710	E9	87.5	6.4	89	15.96	13	A666
1200		230/460	182T	<b>E2105</b>	182TTFW16076	*	10:1	\$710	E9	87.5	5.6/2.8	89	15.96	13	A666
1200		208-230/460	182T	<b>E823A</b>	182TTF6077	*	10:1	\$758	E9	87.5	6.2-5.6/2.8	98	15.96		N/A
1200		575	182T	<b>E2130</b>	182TTFW16080		10:1	\$710	E9	87.5	2.2	89	15.96	13	A666
1200		575	182T	<b>E001</b>	182TTF6081	*	10:1	\$758	E9	87.5	2.2	98	15.96		N/A

Blue shaded areas are Cast Iron Frames

\* Requires nameplate modifications

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements  
Continued on next page.

# NEMA Premium® XRI® Efficiency Three Phase, Totally Enclosed

## Rigid Base

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM	FOOT NOTES	C-FACE KITS
<b>2</b>	3600	200	145T	<b>E2156</b>	145TTFR16001		10:1	\$578	E9	85.5	5.5	44	13.75		A642
	3600	230/460	145T	<b>E2106</b>	145TTFR13002	*	10:1	\$578	E9	85.5	4.8/2.4	44	13.75		A642
	3600	575	145T	<b>E2131</b>	145TTFR16020		10:1	\$578	E9	85.5	1.9	44	13.75		A642
	3600	230/460	145T	<b>E353</b>	145TTTN6001		20:1	\$642	E9	85.5	5.0/2.5	64	11.43	N,20	A603
	1800	200	145T	<b>E2157</b>	145TTFR16038	*	10:1	\$478	E9	86.5	6.7	50	14.75		A642
	1800	230/460	145T	<b>E2107</b>	145TTFR16035	*	10:1	\$525	E9	86.5	5.8/2.9	50	14.75		A642
	1800	575	145T	<b>E2132</b>	145TTFR16040	*	10:1	\$478	E9	86.5	2.3	50	14.75		A642
	1200	200	184T	<b>E2158</b>	---		10:1	\$839	E9	88.5	8.3	89	15.97	13	A666
	1200	230/460	184T	<b>E2108</b>	184TTFW16076	*	10:1	\$839	E9	88.5	7.2/3.6	89	15.97	13	A666
	1200	208-230/460	184T	<b>E849A</b>	184TTFC6077	*	10:1	\$899	E9	88.5	7.9-7.2/3.6	125	15.96		N/A
	1200	575	184T	<b>E2133</b>	---		10:1	\$839	E9	88.5	2.9	89	15.97	13	A666
	1200	575	184T	<b>E002</b>	184TTFC6081	*	10:1	\$899	E9	88.5	3.0	125	15.96		N/A
<b>3</b>	3600	200	182T	<b>E2159</b>	182TTFW16002	*	10:1	\$777	E9	86.5	8.7	66	13.97	13	A666
	3600	230/460	182T	<b>E2109</b>	182TTFW16001	*	10:1	\$777	E9	86.5	7.6/3.8	66	13.97	13	A666
	3600	208-230/460	182T	<b>U602A</b>	182TTFC6002	*	10:1	\$836	E9	86.5	8.4-7.6/3.8	66	13.96		N/A
	3600	575	182T	<b>E2134</b>	182TTFW16020	*	10:1	\$777	E9	86.5	3.0	66	13.97	13	A666
	3600	575	182T	<b>U604A</b>	182TTFC6006	*	10:1	\$836	E9	86.5	3.0	66	13.96		N/A
	3600	230/460	182T	<b>E216</b>	182TTTS6001		20:1	\$882	E9	89.5	7.6/3.8	94	12.71	N,20	A644
	1800	200	182T	<b>E2160</b>	182TTFW16038	*	10:1	\$693	E9	89.5	9.0	80	13.97	13	A666
	1800	230/460	182T	<b>E2110</b>	182TTFW16026	*	10:1	\$693	E9	89.5	7.8/3.9	80	13.97	13	A666
	1800	208-230/460	182T	<b>U607A</b>	182TTFC6027	*	10:1	\$747	E9	89.5	8.9-7.8/3.9	104	15.89		N/A
	1800	575	182T	<b>E2135</b>	182TTFW16040	*	10:1	\$693	E9	89.5	3.1	80	13.97	13	A666
	1800	575	182T	<b>U609A</b>	182TTFC6031	*	10:1	\$747	E9	89.5	3.2	104	15.89		N/A
	1800	575	182T	<b>E303</b>	182TTTS6030	*	1000:1	\$791	E9	90.2	3.2	100	12.71	d,N	A644
	1200	200	213T	<b>E2161</b>	---		10:1	\$1,026	E9	89.5	10.1	115	19.47		A609
	1200	230/460	213T	<b>E2111</b>	213TTFW16076	*	10:1	\$1,026	E9	89.5	8.8/4.4	115	19.47		A609
	1200	208-230/460	213T	<b>U610A</b>	213TTFC6077	*	10:1	\$1,093	E9	89.5	10.3-9.4/4.7	171	18.19		N/A
	1200	575	213T	<b>E2136</b>	---		10:1	\$1,026	E9	89.5	3.5	115	19.47		A609
1200	575	213T	<b>E003</b>	213TTFC6081	*	10:1	\$1,093	E9	89.5	3.7	171	18.19		N/A	
<b>5</b>	3600	200	184T	<b>E2162</b>	184TTFW16002	*	10:1	\$882	E9	88.5	13.8	96	16.47	13	A666
	3600	230/460	184T	<b>E2112</b>	184TTFW16001	*	10:1	\$882	E9	88.5	12.0/6.0	96	16.47	13	A666
	3600	208-230/460	184T	<b>U613A</b>	184TTFC6002	*	10:1	\$959	E9	88.5	13.2-12.0/6.0	112	16.52		N/A
	3600	575	184T	<b>E2137</b>	184TTFW16020	*	10:1	\$882	E9	88.5	4.8	96	16.47	13	A666
	3600	575	184T	<b>U615A</b>	184TTFC6006	*	10:1	\$959	E9	88.5	5.2	112	16.52		N/A
	1800	200	184T	<b>E2163</b>	184TTFW16038	*	10:1	\$810	E9	89.5	14.7	94	14.97	13	A666
	1800	230/460	184T	<b>E2113</b>	184TTFW16026	*	10:1	\$810	E9	89.5	12.8/6.4	94	14.97	13	A666
	1800	208-230/460	184T	<b>U618A</b>	184TTFC6027	*	10:1	\$873	E9	89.5	14.0-12.8/6.4	109	16.80		N/A
	1800	575	184T	<b>E2138</b>	184TTFW16040	*	10:1	\$810	E9	89.5	5.1	94	14.97	13	A666
	1800	575	184T	<b>U620A</b>	184TTFC6031	*	10:1	\$873	E9	89.5	5.3	109	16.80		N/A
	1200	200	215T	<b>E2164</b>	---		10:1	\$1,326	E9	90.2	16.1	135	20.97		A609
	1200	230/460	215T	<b>E2114</b>	215TTFW16076	*	10:1	\$1,326	E9	90.2	14.0/7.0	135	20.97		A609
1200	208-230/460	215T	<b>U621A</b>	215TTFC6077	*	10:1	\$1,377	E9	90.2	15.8-14.4/7.2	176	19.61		N/A	
1200	575	215T	<b>E2139</b>	---		10:1	\$1,326	E9	90.2	5.6	135	20.97		A609	
1200	575	215T	<b>E004</b>	215TTFC6081	*	10:1	\$1,377	E9	90.2	5.8	176	19.61		N/A	
<b>7 1/2</b>	3600	230/460	213T	<b>E2115</b>	213TTFW16001	*	10:1	\$1,066	E9	90.2	17.8/8.9	116	20.97		A609
	3600	208-230/460	213T	<b>U624A</b>	213TTFC6002	*	10:1	\$1,147	E9	90.2	19.8-18.0/9.0	147	18.19		N/A
	3600	230/460	213T	<b>E218</b>	213TTTS6001		2:1	\$1,184	E9	90.2	17.8/8.9	185	15.69	N	A206
	3600	575	213T	<b>E2140</b>	213TTFW16020		10:1	\$1,066	E9	90.2	7.1	116	20.97		A609
	3600	575	213T	<b>U671A</b>	213TTFC6006	*	10:1	\$1,147	E9	90.2	7.3	147	18.19		N/A
	1800	230/460	213T	<b>E2116</b>	213TTFW16026	*	10:1	\$1,000	E9	91.7	21.6/10.8	144	18.70		A667
	1800	208-230/460	213T	<b>U629A</b>	213TTFC6027	*	10:1	\$1,074	E9	91.7	20.5-18.6/9.3	155	18.19		N/A
	1800	575	213T	<b>E2141</b>	213TTFW16040	*	10:1	\$1,000	E9	91.7	8.6	144	18.70		A667
	1800	575	213T	<b>U631A</b>	213TTFC6031	*	10:1	\$1,074	E9	91.7	8.9	155	18.19		N/A
	1200	230/460	254T	<b>E2117</b>	254TTFL16076	*	10:1	\$1,744	E9	91.0	19.5/9.75	162	22.99		A1209
	1200	208-230/460	254T	<b>U633A</b>	254TTFC6077	*	10:1	\$1,806	E9	91.0	24.2-22.2/11.1	249	23.19		N/A
	1200	230/460	254T	<b>E235</b>	254TTFNA6076		20:1	\$1,872	E9	91.0	19.8/9.9	223	23.52		A284
	1200	575	254T		254TTFL16080		10:1	\$1,744	E9	91.0	8.2	162	22.99		A1209
1200	575	254T	<b>E005</b>	254TTFC6081	*	10:1	\$1,806	E9	91.0	8.5	249	23.19		N/A	

Blue shaded areas are Cast Iron Frames

\* Requires nameplate modifications

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

Continued on next page.

# NEMA Premium® XRI® Efficiency Three Phase, Totally Enclosed

## Rigid Base

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM	FOOT NOTES	C-FACE KITS
<b>10</b>	3600	230/460	215T	<b>E2118</b>	215TTFW16001	*	10:1	\$1,176	E9	91.7	23.6/11.8	137	22.22		A609
	3600	208-230/460	215T	<b>U636A</b>	215TTF6002	*	10:1	\$1,286	E9	91.7	25.7-23.4/11.7	181	19.61		N/A
	3600	575	215T	<b>E2143</b>	215TTFW16020	*	10:1	\$1,176	E9	91.7	9.4	137	22.22		A609
	3600	575	215T	<b>U637A</b>	215TTF6006	*	10:1	\$1,286	E9	91.7	9.6	181	19.61		N/A
	1800	230/460	215T	<b>E2119</b>	215TTFW16026	*	10:1	\$1,138	E9	91.7	26.8/13.4	161	19.70		A667
	1800	208-230/460	215T	<b>U639A</b>	215TTF6027	*	10:1	\$1,190	E9	91.7	27.5-25.0/12.5	177	19.61		N/A
	1800	575	215T	<b>E2144</b>	215TTFW16040	*	10:1	\$1,138	E9	91.7	10.7	161	19.70		A667
	1800	575	215T	<b>U641A</b>	215TTF6031	*	10:1	\$1,190	E9	91.7	10.3	177	19.61		N/A
	1800	575	215T	<b>E306</b>	215TTF6030	*	20:1	\$1,353	E9	91.7	10.0	225	19.70		A206
	1200	230/460	256T	<b>E2120</b>	256TTF16076	*	10:1	\$2,153	E9	91.0	26.5/13.3	185	26.24		A1209
	1200	208-230/460	256T	<b>U642A</b>	256TTF6077	*	10:1	\$2,244	E9	91.0	32.4-29.9/14.5	300	24.92		N/A
	1200	230/460	256T	<b>E236</b>	256TTFNA6076	*	20:1	\$2,287	E9	91.0	26.2/13.1	368	25.27		A284
1200	575	256T	<b>E2145</b>	256TTF16080	*	10:1	\$2,153	E9	91.0	11.4	185	26.24		A1209	
1200	575	256T	<b>E006</b>	256TTF6081	*	10:1	\$2,244	E9	91.0	11.6	300	24.92		N/A	
<b>15</b>	3600	230/460	254T	<b>E2121</b>	254TTF16002	*	10:1	\$1,672	E9	91.0	35.4/17.7	162	22.99		A1209
	3600	208-230/460	254T	<b>U644A</b>	254TTF6002	*	10:1	\$1,719	E9	91.0	38.5-35.0/17.5	200	19.61		N/A
	3600	230/460	254T	<b>E220</b>	254TTFNA6001	*	2:1	\$1,815	E9	91.7	35.0/17.5	350	23.52		A284
	3600	575	254T	<b>E2146</b>	254TTF16020	*	10:1	\$1,672	E9	91.0	14.2	162	22.99		A1209
	3600	575	254T	<b>U638A</b>	254TTF6006	*	10:1	\$1,719	E9	91.0	14.3	200	19.61		N/A
	1800	230/460	254T	<b>E2122</b>	254TTF16026	*	10:1	\$1,554	E9	92.4	38.1/19.1	174	22.99		A1209
	1800	208-230/460	254T	<b>U647B</b>	254TTF6027	*	10:1	\$1,640	E9	92.4	39.6-36.0/18.0	280	23.19		N/A
	1800	230/460	254T	<b>E205</b>	254TTFNA6026	*	20:1	\$1,704	E9	92.4	37.6/18.8	350	23.52		A284
	1800	575	254T	<b>E2147</b>	254TTF16040	*	10:1	\$1,554	E9	92.4	15.8	174	22.99		A1209
	1800	575	254T	<b>U648A</b>	254TTF6031	*	10:1	\$1,640	E9	92.4	15.6	280	23.19		N/A
	1800	575	254T	<b>E307</b>	254TTFNA6030	*	20:1	\$1,704	E9	92.4	15.1	350	23.52		A284
	1200	230/460	284T	<b>E237</b>	284TTFNA6076	*	20:1	\$3,035	E9	91.7	40.8/20.4	475	26.34		A618
1200	208-230/460	284T	<b>E978A</b>	284TTF6077	*	10:1	\$3,035	E9	91.7	44.7-40.6/20.3	333	26.26		N/A	
1200	575	284T	<b>E007</b>	284TTF6081	*	10:1	\$3,035	E9	91.7	34.1	333	26.26		N/A	
<b>20</b>	3600	230/460	256T	<b>E2123</b>	256TTF16002	*	10:1	\$2,249	E9	91.0	47.0/23.5	186	24.74		A1209
	3600	208-230/460	256T	<b>U649A</b>	256TTF6002	*	10:1	\$2,351	E9	91.0	50.6-46.0/23.0	316	24.92		N/A
	3600	230/460	256T	<b>E221</b>	256TTFNA6001	*	2:1	\$2,351	E9	92.4	46.8/23.4	375	25.27		A284
	3600	575	256T	<b>E2148</b>	256TTF16020	*	10:1	\$2,249	E9	91.0	18.9	186	26.24		A1209
	3600	575	256T	<b>U650A</b>	256TTF6006	*	10:1	\$2,351	E9	91.0	18.5	316	24.92		N/A
	1800	230/460	256T	<b>E2124</b>	256TTF16033	*	10:1	\$1,935	E9	93.0	48.6/24.3	191	26.24		A1209
	1800	208-230/460	256T	<b>U652B</b>	256TTF6027	*	10:1	\$2,044	E9	93.0	53.9-49.0/24.5	322	24.92		N/A
	1800	230/460	256T	<b>E206</b>	256TTFNA6026	*	20:1	\$2,123	E9	93.0	48.2/24.1	425	25.27	d	A284
	1800	575	256T	<b>E2149</b>	256TTF16040	*	10:1	\$1,935	E9	93.0	20.4	191	26.24		A1209
	1800	575	256T	<b>U653A</b>	256TTF6031	*	10:1	\$2,044	E9	93.0	20.2	322	24.92		N/A
	1800	575	256T	<b>E308</b>	256TTFNA6030	*	20:1	\$2,123	E9	93.0	19.3	425	25.27		A284
	1200	230/460	286T	<b>E238</b>	286TTFNA6076	*	20:1	\$3,698	E9	91.7	53.6/26.8	550	27.84		A618
1200	208-230/460	286T	<b>E968A</b>	286TTF6077	*	10:1	\$3,698	E9	91.7	59.4-54.0/27.0	392	27.83		N/A	
1200	575	286T	<b>E008</b>	286TTF6081	*	10:1	\$3,698	E9	91.7	45.4	550	27.84		N/A	
<b>25</b>	3600	230/460	284TS	<b>E222</b>	284TSTFNA6001	*	2:1	\$2,771	E9	93.6	56.2/28.1	475	24.97		A618
	3600	208-230/460	284TS	<b>E975A</b>	284TSTFC6002	*	10:1	\$2,771	E9	91.7	62.3-56.8/28.4	383	24.88		N/A
	3600	575	284TS	<b>U654A</b>	284TSTFC6006	*	10:1	\$2,771	E9	91.7	23.8	383	24.88		N/A
	1800	230/460	284T	<b>E207</b>	284TTFNA6026	*	20:1	\$2,528	E9	93.6	62.0/31.0	500	26.34		A618
	1800	208-230/460	284T	<b>E961C</b>	284TTF6027	*	10:1	\$2,528	E9	93.6	64.9-59.0/29.5	385	26.26		N/A
	1800	208-230/460	284TS	<b>E999A</b>	284TSTFC6036	*	10:1	\$2,528	E9	93.6	64.9-59.0/29.5	385	26.26		N/A
	1800	575	284T	<b>E309</b>	284TTFNA6030	*	20:1	\$2,528	E9	93.6	24.8	500	26.34		A618
	1800	575	284T	<b>E800A</b>	284TTF6031	*	10:1	\$2,528	E9	93.6	23.6	385	26.26		N/A
	1200	230/460	324T	<b>E239</b>	324TTF6076	*	20:1	\$4,482	E9	93.0	65.0/32.5	675	28.87		A214
	1200	208-230/460	324T	<b>E820A</b>	324TTF6077	*	10:1	\$4,482	E9	93.0	72.6-66.0/33.0	545	29.53		N/A
	1200	575	324T	<b>E009</b>	324TTF6081	*	10:1	\$4,482	E9	93.0	27.2	545	29.53		N/A
	<b>30</b>	3600	230/460	286TS	<b>E223</b>	286TSTFNA6001	*	2:1	\$3,236	E9	93.6	67.6/33.8	500	26.47	
3600		208-230/460	286TS	<b>E964A</b>	286TSTFC6002	*	10:1	\$3,236	E9	91.7	74.4-67.6/33.8	385	26.46		N/A
3600		575	286TS	<b>E819A</b>	286TSTFC6006	*	10:1	\$3,236	E9	91.7	28.4	385	26.46		N/A
1800		230/460	286T	<b>E208</b>	286TTFNA6026	*	20:1	\$2,940	E9	94.1	73.0/36.5	525	27.84		A618
1800		208-230/460	286T	<b>E983B</b>	286TTF6027	*	10:1	\$2,940	E9	93.6	77.070.0/35.0	432	27.83		N/A
1800		208-230/460	286TS	<b>E818A</b>	286TSTFC6036	*	10:1	\$2,940	E9	93.6	77.070.0/35.0	432	27.83		N/A
1800	575	286T	<b>E310</b>	286TTFNA6030	*	20:1	\$2,940	E9	94.1	29.2	525	27.84		A618	

Blue shaded areas are Cast Iron Frames

\* Requires nameplate modifications  
 @ Requires larger fan

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

Continued on next page.

# NEMA Premium® XRI® Efficiency Three Phase, Totally Enclosed

## Rigid Base

THREE PHASE - NEMA PREMIUM

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM	FOOT NOTES	C-FACE KITS	
<b>30</b>	1800	575	286T	<b>E817A</b>	286TTFC6031	*	10:1	\$2,940	E9	93.6	29.7	432	27.83		N/A	
	1200	230/460	326T	<b>E240</b>	326TTFS6076	*	20:1	\$5,162	E9	93.0	77.0/38.5	725	30.37		A214	
	1200	208-230/460	326T	<b>E966A</b>	326TTFC6077	*	10:1	\$5,162	E9	93.0	84.9-77.2/38.6	615	31.02		N/A	
	1200	575	326T	<b>E010</b>	326TTFC6081	*	10:1	\$5,162	E9	93.0	32.4	615	31.02		N/A	
<b>40</b>	3600	230/460	324TS	<b>E224</b>	324TSTFS6001	*	2:1	\$4,267	E9	93.6	94.0/47.0	675	27.37		A214	
	3600	208-230/460	324TS	<b>E971A</b>	324TSTFC6002	*	10:1	\$4,267	E9	92.4	97.9-89.0/44.5	504	28.03		N/A	
	3600	575	324TS	<b>E319</b>	324TSTFS6005	*	2:1	\$4,267	E9	94.1	37.5	675	27.37		A214	
	3600	575	324TS	<b>E011</b>	324TSTFC6006	*	10:1	\$4,267	E9	92.4	35.4	504	28.03		N/A	
	1800	230/460	324T	<b>E209</b>	324TTFS6026	*	20:1	\$3,905	E9	94.1	95.0/47.5	750	30.37		A214	
	1800	208-230/460	324T	<b>E984B</b>	324TTFC6027	*	10:1	\$3,905	E9	94.1	101-92.0/46.0	528	29.53		N/A	
	1800	208-230/460	324TS	<b>E816A</b>	324TSTFC6036	*	10:1	\$3,905	E9	94.1	101-92.0/46.0	528	29.53		N/A	
	1800	575	324T	<b>E311</b>	324TTFS6030	*	20:1	\$3,905	E9	94.1	39.0	750	30.37		A214	
	1800	575	324T	<b>E815A</b>	324TTFC6031	*	10:1	\$3,905	E9	94.1	37.8	528	29.53		N/A	
	1200	230/460	364T	<b>E241A</b>	364TTFS16083	*	20:1@	\$7,637	E9	94.1	100/50.0	950	31.50		A395	
	1200	208-230/460	364T	<b>E988A</b>	364TTFC6087	*	10:1	\$7,637	E9	94.1	112-102/51.0	636	32.64		N/A	
	1200	575	364T	<b>E012</b>	364TTFC6081	*	10:1	\$7,637	E9	94.1	42.8	636	32.64		N/A	
<b>50</b>	3600	230/460	326TS	<b>E225</b>	326TSTFS6001	*	2:1	\$5,520	E9	93.6	116/58.0	725	28.87		A214	
	3600	208-230/460	326TS	<b>E976A</b>	326TSTFC6002	*	10:1	\$5,520	E9	93.0	122-111/55.5	554	29.53		N/A	
	3600	575	326TS	<b>E320</b>	326TSTFS6005	*	2:1	\$5,520	E9	94.5	46.5	725	28.87		A214	
	3600	575	326TS	<b>E013</b>	326TSTFC6006	*	10:1	\$5,520	E9	93.0	44.5	554	29.53		N/A	
	1800	230/460	326T	<b>E210</b>	326TTFS6026	*	20:1@	\$4,796	E9	94.5	120/60.0	775	31.87		A214	
	1800	208-230/460	326T	<b>E962B</b>	326TTFC6027	*	10:1	\$4,796	E9	94.5	129-117/58.5	587	31.02		N/A	
	1800	208-230/460	326TS	<b>E801A</b>	326TSTFC6036	*	10:1	\$4,796	E9	94.5	129-117/58.5	587	31.02		N/A	
	1800	575	326T	<b>E312</b>	326TTFS6030	*	20:1@	\$4,796	E9	94.5	48.0	775	31.87		A214	
	1800	575	326T	<b>U659A</b>	326TTFC6031	*	10:1	\$4,796	E9	94.5	47.9	587	31.02		N/A	
	1200	230/460	365T	<b>E242A</b>	365TTFS16083	*	20:1@	\$8,569	E9	94.1	123/61.5	1000	32.50		A395	
	1200	208-230/460	365T	<b>E993A</b>	365TTFC6087	*	10:1	\$8,569	E9	94.1	136-124/62	672	33.62		N/A	
	1200	575	365T	<b>E014</b>	365TTFC6081	*	10:1	\$8,569	E9	94.1	52.1	672	33.62		N/A	
<b>60</b>	3600	230/460	364TS	<b>E226</b>	364TSTFS6001	*	2:1	\$7,263	E9	94.5	134/67.0	925	29.38		A396	
	3600	208-230/460	364TS	<b>E960A</b>	364TSTFC6002	*	10:1	\$7,263	E9	93.6	149-136/68.0	735	30.51		N/A	
	3600	575	364TS	<b>E321</b>	364TSTFS6005	*	2:1	\$7,263	E9	94.5	53.5	925	29.38		A396	
	3600	575	364TS	<b>E015</b>	364TSTFC6006	*	10:1	\$7,263	E9	93.6	53.7	735	30.51		N/A	
	1800	230/460	364T	<b>E211</b>	364TTFS6036	*	20:1@	\$6,880	E9	95.0	138/69.0	1000	31.50		A395	
	1800	208-230/460	364T	<b>E985B</b>	364TTFC6037	*	10:1	\$6,880	E9	95.0	151-137/68.5	666	32.64		N/A	
	1800	208-230/460	364TS	<b>E802A</b>	364TSTFC6026	*	10:1	\$6,880	E9	95.0	151-137/68.5	666	32.64		N/A	
	1800	575	364T	<b>E313</b>	364TTFS6040	*	20:1@	\$6,880	E9	95.0	55.0	1000	31.50		A395	
	1800	575	364T	<b>U660A</b>	364TTFC6041	*	10:1	\$6,880	E9	95.0	55.6	666	32.64		N/A	
	1200	230/460	404T	<b>E243</b>	404TTFS6086	*	20:1@	\$9,414	E9	94.5	144/72.0	1200	35.62		A223	
	<b>75</b>	3600	230/460	365TS	<b>E227</b>	365TSTFS6001	*	2:1	\$9,120	E9	94.5	168/84.0	1025	30.38		A396
		3600	208-230/460	365TS	<b>E991A</b>	365TSTFC6003	*	10:1	\$9,120	E9	93.6	186-169/84.5	780	31.50		N/A
3600		575	365TS	<b>E322</b>	365TSTFS6002	*	2:1	\$9,120	E9	94.5	67.0	1025	30.38		A396	
3600		575	365TS	<b>E016</b>	365TSTFC6006	*	10:1	\$9,120	E9	93.6	67.3	780	31.50		N/A	
1800		230/460	365T	<b>E212</b>	365TTFS6036	*	20:1@	\$8,722	E9	95.4	172/86.0	1100	32.50		A395	
1800		208-230/460	365T	<b>E957A</b>	365TTFC6037	*	10:1	\$8,722	E9	95.4	188-171/85.5	733	33.62		N/A	
1800		208-230/460	365TS	<b>E804A</b>	365TSTFC6026	*	10:1	\$8,722	E9	95.4	188-171/85.5	733	33.62		N/A	
1800		575	365T	<b>E315</b>	365TTFS6040	*	20:1@	\$8,722	E9	95.4	69.0	1100	32.50		A395	
1800		575	365T	<b>E805A</b>	365TTFC6041	*	10:1	\$8,722	E9	95.4	71.0	733	33.62		N/A	
1200		230/460	405T	<b>E244</b>	405TTFS6086	*	20:1@	\$11,081	E9	94.5	180/90	1300	37.12		A223	
<b>100</b>		3600	230/460	405TS	<b>E228</b>	405TSTFS6001	*	2:1	\$12,220	E9	95.0	216/108	1250	34.12		A226
		3600	575	405TS	<b>E323</b>	405TSTFS6005	*	2:1	\$12,220	E9	95.0	86.5	1250	34.12		A226
	1800	230/460	405T	<b>E213</b>	405TTFS6036	*	20:1@	\$10,776	E9	95.4	226/113	1375	37.12		A223	
	1800	230/460	405TS	<b>E808A</b>	405TSTFS16033	*	20:1@	\$10,776	E9	95.4	226/113	1375	34.12		A223	
	1800	575	405T	<b>E314</b>	405TTFS6040	*	20:1@	\$10,776	E9	95.4	90.5	1375	37.12		A223	
	1200	230/460	444T	<b>E328</b>	444TTFN6086	*	20:1@	\$16,341	E9	95.0	248/124	2000	41.25		A620	
<b>125</b>	3600	460	444TS	<b>E229</b>	444TSTFS6001	*	2:1	\$15,975	E9	95.4	136	1750	37.50	PW	A226	
	3600	575	444TS	<b>E324</b>	444TSTFS16002	*	2:1	\$15,975	E9	95.4	109	1750	37.50	PW	A232	
	1800	460	444T	<b>E214</b>	444TTFS6036	*	20:1@	\$14,186	E9	95.4	141	1850	41.25	PW	A223	
	1800	460	444TS	<b>E810A</b>	444TSTFN16033	*	20:1@	\$14,186	E9	95.4	141	1850	37.50		A223	
	1800	575	444T	<b>E316</b>	444TTFS6044	*	20:1@	\$14,186	E9	95.4	113	1850	41.25	PW	A223	
	1200	460	445T	<b>E246</b>	445TTFN6086	*	20:1@	\$18,603	E9	95.0	155	2050	43.19		A620	

Blue shaded areas are Cast Iron Frames

\* Requires nameplate modifications  
@ Requires larger fan

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements



# NEMA Premium® XRI® Efficiency Three Phase, Totally Enclosed

## Rigid Base

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM	FOOT NOTES	C-FACE KITS
<b>150</b>	3600	460	445TS	<b>E230</b>	445TSTFN6001	★	2:1	\$19,191	E9	95.8	165	2050	39.44		A621
	1800	460	445T	<b>E215</b>	445TTFN6036	★	20:1@	\$16,493	E9	95.8	172	2050	43.19		A621
	1800	460	445TS	<b>E811A</b>	445TSTFN6026	★	20:1@	\$16,493	E9	95.8	172	2050	39.60	68	A621
	1800	575	445T	<b>E317</b>	445TTFN6037		20:1@	\$16,493	E9	95.8	138	2050	43.19	PW	A621
	1200	460	445T	<b>E289</b>	445TTFN6087		20:1@	\$20,813	E9	95.8	181	2500	43.19	RB	N/A
<b>200</b>	3600	460	445TS	<b>E342</b>	445TSTFN16004	★	2:1	\$24,277	E9	95.8	222	2300	39.44		A621
	1800	460	445T	<b>E247</b>	445TTFN6038	★	20:1@	\$20,058	E9	96.2	226	2350	43.19	RB	N/A
	1800	460	445TS	<b>E813A</b>	445TSTFN16033	★	20:1@	\$20,058	E9	96.2	226	2350	39.60		
	1800	575	445T	<b>E326</b>	445TTFN6039		20:1@	\$20,058	E9	96.2	181	2350	43.19	RB	N/A
	1200	460	447/9T	<b>E282</b>	449TTFS6088	★	20:1@	\$25,479	E9	95.8	240	2900	51.69	H, RB	N/A
<b>250</b>	3600	460	447/9TS	<b>E271</b>	449TSTFS6003		2:1	\$30,617	E9	96.5	274	2700	47.88	H	A624
	1800	460	445T	<b>E287</b>	445TTFN6040		20:1@	\$23,645	E9	95.8	285	2150	43.35	RB, X	N/A
	1800	460	447/9T	<b>E276</b>	449TTFS6038		20:1@	\$25,419	E9	96.5	285	2850	51.69	H, RB	N/A
	1200	460	L447/9T	<b>E283</b>	449TTFS6087		20:1@	\$29,288	E9	95.8	300	3350	51.69	H, RB	N/A
	3600	460	447/9TS	<b>E272</b>	449TSTFS6002		2:1	\$39,686	E9	96.2	330	2700	47.88	H	A624
<b>300</b>	1800	460	447/9T	<b>E277</b>	449TTFS6037		20:1@	\$28,756	E9	96.5	339	3150	51.69	H, RB	N/A
	1200	460	L447/9T	<b>E284</b>	449TTFS6390		N/A	\$38,669	E9	95.8	362	3850	56.71	H, RB	N/A
	3600	460	447/9TS	<b>E273</b>	449TSTFS6001		2:1	\$45,511	E9	96.2	382	2950	47.88		A624
<b>350</b>	1800	460	447/9T	<b>E278A</b>	---		2:1	\$37,524	E9	96.2	395	3400	51.69	H, RB	N/A
	400	1800	460	447/9T	<b>E291</b>	---	2:1	\$37,865	E9	95.8	455	3800	56.71	H	A623
<b>450</b>	1800	460	L447/9T	<b>E292</b>	449TTFS6065		N/A	\$38,822	E9	96.5	515	3800	56.71	H	A623

## C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM	FOOT NOTES
<b>1</b>	3600	208-230/460	56C	<b>E2000</b>	56T34F5940	★	10:1	\$592	E9	80.0	3.0-2.8/1.4	28	11.31	
	1800	208-230/460	143TC	<b>E2001</b>	143TTFR5642	★	10:1	\$476	E9	85.5	3.2-3.2/1.6	40	13.75	
	1200	208-230/460	145TC	<b>E2002</b>	145TTFR6078	★	10:1	\$573	E9	82.5	3.8-3.8/1.9	45	13.75	
<b>1 1/2</b>	3600	208-230/460	143TC	<b>E2003</b>	143TTFR5582	★	10:1	\$551	E9	84.0	4.4-4.0/2.0	38	13.75	
	1800	208-230/460	145TC	<b>E2004</b>	145TTFR6033	★	10:1	\$518	E9	86.5	5.2-4.8/2.4	45	13.75	
	1200	208-230/460	182TC	<b>E2005</b>	182TTFW6076	★	10:1	\$749	E9	87.5	6.0-5.1/2.6	82	14.47	13
<b>2</b>	3600	208-230/460	145TC	<b>E2006</b>	145TTFR3002	★	10:1	\$610	E9	85.5	5.2-4.8/2.4	48	13.75	
	1800	208-230/460	145TC	<b>E2007</b>	145TTFR6035	★	10:1	\$568	E9	86.5	6.0-5.8/2.9	50	14.25	
	1200	208-230/460	184TC	<b>E2008</b>	184TTFW6076	★	10:1	\$858	E9	88.5	7.4-6.4/3.2	94	14.97	13
<b>3</b>	3600	208-230/460	182TC	<b>E2009</b>	182TTFR6001	★	10:1	\$791	E9	87.5	8.0-7.6/3.8	81	15.69	d
	3600	208-230/460	182TC	<b>E2009</b>	182TTFW6001	★	10:1	\$791	E9	87.5	8.4-7.8/3.9	81	13.97	13
	1800	208-230/460	182TC	<b>E2010</b>	182TTFW6026	★	10:1	\$710	E9	89.5	8.4-7.8/3.9	87	13.97	13
	1200	208-230/460	213TC	<b>E2011</b>	213TTFW6076	★	10:1	\$1,047	E9	89.5	9.2-8.8/4.4	125	19.47	
<b>5</b>	3600	208-230/460	184TC	<b>E2012</b>	184TTFR6001	★	10:1	\$917	E9	88.5	13.2-12.0/6.0	96	16.67	d
	3600	208-230/460	184TC	<b>E2012</b>	184TTFW6001	★	10:1	\$917	E9	88.5	13.0-12.0/6.0	85	17.19	13
	1800	208-230/460	184TC	<b>E2013</b>	184TTFR6026	★	10:1	\$828	E9	90.2	13.8-12.4/6.2	110	16.67	d
	1800	208-230/460	184TC	<b>E2013</b>	184TTFW6026	★	10:1	\$828	E9	90.2	13.7-12.6/6.3	87	14.97	13
	1200	208-230/460	215TC	<b>E2014</b>	215TTFW6076	★	10:1	\$1,348	E9	90.2	15.0-14.0/7.0	160	20.97	
<b>7 1/2</b>	3600	208-230/460	213TC	<b>E2015</b>	213TTFW6001	★	10:1	\$1,127	E9	91.7	19.7-17.8/8.9	116	20.97	
	1800	208-230/460	213TC	<b>E2016</b>	213TTFW6026	★	10:1	\$1,023	E9	91.7	21.0-19.4/9.7	143	20.97	
<b>10</b>	3600	208-230/460	215TC	<b>E2018</b>	215TTFR6001	★	10:1	\$1,199	E9	91.7	26.4-23.6/11.8	230	22.22	
	1800	208-230/460	215TC	<b>E2019</b>	215TTFW6026	★	10:1	\$1,164	E9	91.7	28.0-25.6/12.8	164	22.22	

Blue shaded areas are Cast Iron Frames

\* Requires nameplate modifications

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements



# General Purpose, Three Phase Globetrotter® NEMA Premium® Efficiency

Totally Enclosed



**Features:**

- ☛ **Meets or exceeds NEMA Premium® efficiencies**  
**NEMA Premium® models are in compliance with EISA2007**
- Cast iron frame and brackets
- Inverter Duty 10:1 Variable Torque and 10:1 Constant Torque, 1.0 SF
- 1.15 Service Factor
- Class F Insulation
- Standard assembly F1, reversible to F2 assembly
- UL Recognized, CSA Certified, CE Mark
- Two year warranty



## Rigid Base

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	APPRX. WGT. LBS	"C" DIM.	FOOT NOTES	C FACE KIT
<b>1 1/2</b>	1200	208-230/460	182T	<b>GT1005</b>	182TTFC6076	★	\$697	E1	87.5	4.8/2.4	89	14.80		A170
	1200	575	182T	<b>GT1105</b>	182TTFC6080	★	\$697	E1	87.5	1.9	89	14.80		A170
<b>2</b>	1200	208-230/460	184T	<b>GT1008</b>	184TTFC6076	★	\$824	E1	88.5	6.0/3.0	125	15.80		A170
	1200	575	184T	<b>GT1108</b>	184TTFC6080	★	\$824	E1	88.5	2.4	125	15.80		A170
<b>3</b>	3600	208-230/460	182T	<b>GT1009</b>	182TTFC6001	★	\$866	E1	86.5	7.6/3.8	94	14.80		A170
	3600	575	182T	<b>GT1109</b>	182TTFC6005	★	\$866	E1	86.5	3.1	94	14.80		A170
	1800	208-230/460	182T	<b>GT1010</b>	182TTFC6026	★	\$777	E1	89.5	7.8/3.9	102	14.80		A170
	1800	575	182T	<b>GT1110</b>	182TTFC6030	★	\$777	E1	89.5	3.1	102	14.80		A170
	1200	208-230/460	213T	<b>GT1011</b>	213TTFC6076	★	\$1,178	E1	89.5	8.6/4.3	173	18.25		A171
	1200	575	213T	<b>GT1111</b>	213TTFC6080	★	\$1,178	E1	89.5	3.5	173	18.25		A171
<b>5</b>	3600	208-230/460	184T	<b>GT1012</b>	184TTFC6001	★	\$963	E1	88.5	12.0/6.0	109	15.80		A170
	3600	575	184T	<b>GT1112</b>	184TTFC6005	★	\$963	E1	88.5	4.8	109	15.80		A170
	1800	208-230/460	184T	<b>GT1013</b>	184TTFC6026	★	\$901	E1	90.2	12.4/6.2	117	15.80		A170
	1800	575	184T	<b>GT1113</b>	184TTFC6030	★	\$901	E1	89.5	5.0	117	15.80		A170
	1200	208-230/460	215T	<b>GT1014</b>	215TTFC6076	★	\$1,447	E1	90.2	14/7.0	203	19.75		A171
	1200	575	215T	<b>GT1114</b>	215TTFC6080	★	\$1,447	E1	89.5	5.6	203	19.75		A171
<b>7 1/2</b>	3600	208-230/460	213T	<b>GT1015</b>	213TTFC6001	★	\$1,163	E1	89.5	17.8/8.9	185	18.25		A171
	3600	575	213T	<b>GT1115</b>	213TTFC6005	★	\$1,163	E1	89.5	7.1	185	18.25		A171
	1800	208-230/460	213T	<b>GT1016</b>	213TTFC6026	★	\$1,104	E1	91.7	18.6/9.3	194	18.25		A171
	1800	575	213T	<b>GT1116</b>	213TTFC6030	★	\$1,104	E1	91.7	7.5	194	18.25		A171
	1200	208-230/460	254T	<b>GT1017</b>	254TTFCA6076	★	\$1,839	E1	91.0	20.4/10.2	223	23.52		A173
	1200	575	254T	<b>GT1117</b>	254TTFCA6080	★	\$1,839	E1	91.0	8.4	223	23.52		A173
<b>10</b>	3600	208-230/460	215T	<b>GT1018</b>	215TTFC6001	★	\$1,358	E1	90.2	22.8/11.4	217	19.75		A171
	3600	575	215T	<b>GT1118</b>	215TTFC6005	★	\$1,358	E1	90.2	9.1	217	19.75		A171
	1800	208-230/460	215T	<b>GT1019</b>	215TTFC6026	★	\$1,329	E1	91.7	24.4/12.2	225	19.75		A171
	1800	575	215T	<b>GT1119</b>	215TTFC6030	★	\$1,329	E1	91.7	9.8	225	19.57		A171
	1200	208-230/460	256T	<b>GT1020</b>	256TTFCA6076	★	\$2,246	E1	91.0	26.8/13.4	368	25.27		A173
	1200	575	256T	<b>GT1120</b>	256TTFCA6080	★	\$2,246	E1	91.0	11.2	368	25.27		A173
<b>15</b>	3600	208-230/460	254T	<b>GT1021</b>	254TTFCA6001	★	\$1,783	E1	91.0	34/17.0	350	23.52		A172
	3600	575	254T	<b>GT1121</b>	254TTFCA6005	★	\$1,783	E1	91.0	13.6	350	23.52		A172
	1800	208-230/460	254T	<b>GT1022</b>	254TTFCA6026	★	\$1,674	E1	92.4	37/18.5	375	23.52		A173
	1800	575	254T	<b>GT1122</b>	254TTFCA6030	★	\$1,674	E1	92.4	14.8	375	23.52		A173
	1200	208-230/460	284T	<b>GT1023</b>	284TTFCA6076	★	\$2,981	E1	91.7	39.5/19.8	475	26.34		A173
	1200	575	284T	<b>GT1123</b>	284TTFCA6080	★	\$2,981	E1	91.7	15.9	475	26.34		A173

Blue shaded areas are Cast Iron Frames

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

# General Purpose, Three Phase Globetrotter® NEMA Premium® Efficiency

Totally Enclosed

## Rigid Base

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	APPRX. WGT. LBS	"C" DIM.	FOOT NOTES	C FACE KIT
20	3600	208-230/460	256T	<b>GT1024</b>	256TTFCA6001	★	\$2,209	E1	91.0	46.0/23.0	375	25.27		A172
	3600	575	256T	<b>GT1124</b>	256TTFCA6005	★	\$2,209	E1	91.0	18.4	375	25.27		A172
	1800	208-230/460	256T	<b>GT1025</b>	256TTFCA6026	★	\$2,085	E1	93.0	48.0/24.0	425	25.27		A173
	1800	575	256T	<b>GT1125</b>	256TTFCA6030	★	\$2,085	E1	93.0	19.6	425	25.27		A173
	1200	208-230/460	286T	<b>GT1026</b>	286TTFCA6076	★	\$3,632	E1	91.7	52.0/26.0	550	87.84		A175
	1200	575	286T	<b>GT1126</b>	286TTFCA6080	★	\$3,632	E1	91.7	20.8	550	27.84		A175
25	3600	208-230/460	284TS	<b>GT1027</b>	284TSTFCA6001	★	\$2,722	E1	91.7	55.5/27.7	475	24.97		A174
	3600	575	284TS	<b>GT1127</b>	284TSTFCA6005	★	\$2,722	E1	91.7	22.4	475	24.97		A174
	1800	208-230/460	284T	<b>GT1028</b>	284TTFCA6026	★	\$2,483	E1	93.6	62.0/31.0	500	26.34		A175
	1800	575	284T	<b>GT1128</b>	284TTFCA6030	★	\$2,483	E1	93.6	24.4	500	26.34		A175
	1200	208-230/460	324T	<b>GT1029</b>	324TTFCA6076	★	\$4,403	E1	93.0	66.0/33.0	675	28.87		A177
	1200	575	324T	<b>GT1129</b>	324TTFCA6080	★	\$4,403	E1	93.0	26.8	675	28.87		A177
30	3600	208-230/460	286TS	<b>GT1030</b>	286TSTFCA6001	★	\$3,178	E1	91.7	66.0/33.0	500	26.47		A174
	3600	575	286TS	<b>GT1130</b>	286TSTFCA6005	★	\$3,178	E1	91.7	27.2	500	26.47		A174
	1800	208-230/460	286T	<b>GT1031</b>	286TTFCA6026	★	\$2,888	E1	93.6	73.0/36.5	525	27.84		A175
	1800	575	286T	<b>GT1131</b>	286TTFCA6030	★	\$2,888	E1	93.6	29.2	252	27.84		A175
	1200	208-230/460	326T	<b>GT1032</b>	326TTFCA6076	★	\$5,070	E1	93.0	80.0/40.0	725	30.37		A177
	1200	575	326T	<b>GT1132</b>	326TTFCA6080	★	\$5,070	E1	93.0	32.0	725	30.37		A177
40	3600	208-230/460	324TS	<b>GT1033</b>	324TSTFCA6001	★	\$4,192	E1	92.4	88.0/44.0	675	27.37		A176
	3600	575	324TS	<b>GT1133</b>	324TSTFCA6005	★	\$4,192	E1	92.4	35.0	675	27.37		A176
	1800	208-230/460	324T	<b>GT1034</b>	324TTFCA6026	★	\$3,836	E1	94.1	94.0/47.0	750	30.37		A177
	1800	575	324T	<b>GT1134</b>	324TTFCA6030	★	\$3,836	E1	94.1	37.5	750	30.37		A177
	1200	208-230/460	364T	<b>GT1035</b>	364TTFCA6086	★	\$6,871	E1	94.1	94.0/47.0	950	36.60		A179
	1200	575	364T	<b>GT1135</b>	364TTFCA6080	★	\$6,871	E1	94.1	38.5	950	36.60		A179
50	3600	208-230/460	326TS	<b>GT1036</b>	326TSTFCA6001	★	\$5,422	E1	93.0	109/54.5	725	28.87		A176
	3600	575	326TS	<b>GT1136</b>	326TSTFCA6005	★	\$5,422	E1	93.0	43.5	725	28.87		A176
	1800	208-230/460	326T	<b>GT1037</b>	326TTFCA6026	★	\$4,710	E1	94.5	119/59.5	775	31.87		A177
	1800	575	326T	<b>GT1137</b>	326TTFCA6030	★	\$4,710	E1	94.5	47.5	775	31.87		A177
	1200	208-230/460	365T	<b>GT1038</b>	365TTFCA6086	★	\$7,892	E1	94.1	117/58.5	1000	38.40		A179
	1200	575	365T	<b>GT1138</b>	365TTFCA6080	★	\$7,892	E1	94.1	47.0	1000	38.40		A179
60	3600	208-230/460	364TS	<b>GT1039</b>	364TSTFCA6001	★	\$7,134	E1	93.6	132/66.0	925	34.57		A178
	3600	575	364TS	<b>GT1139</b>	364TSTFCA6005	★	\$7,134	E1	93.6	53.0	925	34.57		A178
	1800	208-230/460	364T	<b>GT1040</b>	364TTFCA6036	★	\$6,758	E1	95.0	138/69.0	1000	36.60		A179
	1800	575	364T	<b>GT1140</b>	364TTFCA6040	★	\$6,758	E1	95.0	55.0	1000	36.60		A179
	1200	208-230/460	404T	<b>GT1041</b>	404TTFCA6086	★	\$9,246	E1	94.5	140/70.0	1200	42.72		---
	1200	575	404T	<b>GT1141</b>	404TTFCA6080	★	\$9,246	E1	94.5	56.0	1200	42.72		---
75	3600	208-230/460	365TS	<b>GT1042</b>	365TSTFCA6001	★	\$8,958	E1	94.1	164/82.0	1025	36.35		A178
	3600	575	365TS	<b>GT1142</b>	365TSTFCA6002	★	\$8,958	E1	93.6	65.5	1025	36.35		A178
	1800	208-230/460	365T	<b>GT1043</b>	365TTFCA6036	★	\$8,567	E1	95.4	170/85.0	1100	38.40		A179
	1800	575	365T	<b>GT1143</b>	365TTFCA6040	★	\$8,567	E1	95.4	69.0	1100	38.40		A179
	1200	208-230/460	405T	<b>GT1044</b>	405TTFCA6086	★	\$10,884	E1	94.5	174/87.0	1300	42.72		---
	1200	575	405T	<b>GT1144</b>	405TTFCA6080	★	\$10,884	E1	94.5	69.5	1300	42.72		---

Blue shaded areas are Cast Iron Frames

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

# General Purpose, Three Phase Globetrotter® NEMA Premium® Efficiency

Totally Enclosed

## Rigid Base

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C FACE KIT
100	3600	208-230/460	405TS	<b>GT1045</b>	405STFC6001	★	\$12,003	E1	94.5	216/108	1250	39.75		---
	3600	575	405TS	<b>GT1145</b>	405STFC6005	★	\$12,003	E1	94.1	87.5	1250	39.75		---
	1800	208-230/460	405T	<b>GT1046</b>	405TTFC6036	★	\$10,584	E1	95.4	224/112	1375	42.72		---
	1800	575	405T	<b>GT1146</b>	405TTFC6040	★	\$10,584	E1	95.4	89.5	1375	42.72		---
	1200	208-230/460	444T	<b>GT1047</b>	444TTFC6086	★	\$16,050	E1	95.0	228/114	2000	50.80		---
	1200	575	444T	<b>GT1147</b>	444TTFC6080	★	\$16,050	E1	95.0	91	2000	50.80		---
125	3600	460	444TS	<b>GT1048</b>	444TSTFC6001	★	\$15,691	E1	95.0	136	1750	47.05		---
	3600	575	444TS	<b>GT1148</b>	444TSTFC16002	★	\$15,691	E1	95.0	109	1750	47.05		---
	1800	460	444T	<b>GT1049</b>	444TTFC6036	★	\$13,934	E1	95.4	140	1850	50.80		---
	1800	575	444T	<b>GT1149</b>	444TTFC6044	★	\$13,934	E1	95.4	112	1850	50.80		---
	1200	460	445T	<b>GT1050</b>	445TTFC6086	★	\$18,272	E1	95.0	142	2050	50.80		---
	1200	575	445T	<b>GT1150</b>	445TTFC6080	★	\$18,272	E1	95.0	114	2050	50.80		---
150	3600	460	445TS	<b>GT1051</b>	445TSTFC6001	★	\$18,850	E1	95.0	162	2050	47.05		---
	3600	575	445TS	<b>GT1151</b>	445TSTFC6005	★	\$18,850	E1	95.0	130	2050	47.05		---
	1800	460	445T	<b>GT1052</b>	445TTFC6036	★	\$16,199	E1	95.8	165	2050	50.80		---
	1800	575	445T	<b>GT1152</b>	445TTFC6037	★	\$16,199	E1	95.8	132	2050	50.80		---
	1200	460	447T	<b>GT1053</b>	447TTFC6087	★	\$20,444	E1	95.8	170	2500	55.90		---
	1200	575	447T	<b>GT1153</b>	447TTFC6080	★	\$20,444	E1	95.8	136	2500	55.90		---
200	3600	460	447TS	<b>GT1054</b>	447TSTFC16004	★	\$23,846	E1	95.4	215	2300	52.17		---
	3600	575	447TS	<b>GT1154</b>	447TSTFC6005	★	\$23,846	E1	95.4	172	2300	52.17		---
	1800	460	447T	<b>GT1055</b>	447TTFC6038	★	\$19,701	E1	96.2	225	2350	55.90		---
	1800	575	447T	<b>GT1155</b>	447TTFC6039	★	\$19,701	E1	96.2	180	2350	55.90		---
	1200	460	449T	<b>GT1056</b>	449TTFC6088	★	\$25,026	E1	95.8	228	2900	55.90		---
	1200	575	449T	<b>GT1156</b>	449TTFC6080	★	\$25,026	E1	95.8	182	2900	55.90		---

Blue shaded areas are Cast Iron Frames

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

THREE PHASE - NEMA PREMIUM

# General Purpose, Three Phase Globetrotter® NEMA Premium® Efficiency

Totally Enclosed, C-Face Footless and C-Face Footed (Rigid Base)

**Features:**

☛ **Meets or exceeds NEMA Premium® efficiencies**

**NEMA Premium® models are in compliance with EISA2007**

- 182TC-215TC models steel frame, 254TC-405TC models cast iron frame and brackets
- Inverter Duty 10:1 Variable Torque and 10:1 Constant Torque, 1.0 SF
- 1.15 Service Factor
- Class F Insulation
- Standard assembly F1, reversible to F2 assembly
- UL Recognized, CSA Certified, CE Mark
- Two year warranty



## C-Face Footless

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1 1/2</b>	1200	208-230/460	182TC	<b>GT1305</b>	182TTFB6079	★	\$887	E1	87.5	4.8/2.4	82	15.75	
<b>2</b>	1200	208-230/460	184TC	<b>GT1308</b>	184TTFB6079	★	\$994	E1	88.5	6.0/3.0	94	16.75	
<b>3</b>	3600	208-230/460	182TC	<b>GT1309</b>	182TTFB6004	★	\$928	E1	86.5	7.6/3.8	83	15.75	
	1800	208-230/460	182TC	<b>GT1310</b>	182TTFB6029	★	\$848	E1	89.5	7.8/3.9	87	15.75	
	1200	208-230/460	213TC	<b>GT1311</b>	213TTFBA6079	★	\$1,179	E1	89.5	8.6/4.3	115	19.53	
<b>5</b>	3600	208-230/460	184TC	<b>GT1312</b>	184TTFB6004	★	\$1,052	E1	88.5	13.4/6.7	95	16.75	
	1800	208-230/460	184TC	<b>GT1313</b>	184TTFB6029	★	\$965	E1	89.5	12.4/6.2	110	16.75	
	1200	208-230/460	215TC	<b>GT1314</b>	215TTFBA6079	★	\$1,475	E1	89.5	14.0/7.0	135	21.02	
<b>7 1/2</b>	3600	208-230/460	213TC	<b>GT1315</b>	213TTFBA6004	★	\$1,258	E1	89.5	17.8/8.9	116	19.53	
	1800	208-230/460	213TC	<b>GT1316</b>	213TTFBA6029	★	\$1,156	E1	91.7	18.6/9.3	143	19.53	
<b>10</b>	3600	208-230/460	215TC	<b>GT1318</b>	215TTFBA6004	★	\$1,329	E1	90.2	22.8/11.4	137	21.02	
	1800	208-230/460	215TC	<b>GT1319</b>	215TTFBA6029	★	\$1,295	E1	91.7	24.4/12.2	164	21.02	

## C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1</b>	1800	208-230/460	143TC	<b>GT1201</b>	143TTFR6032	★	\$478	E1	85.5	3.3/1.65	59	13.87	
	1800	575	143TC	<b>GT1401</b>	143TTFR16039	★	\$478	E1	85.5	1.3	59	13.87	
	1200	208-230/460	145TC	<b>GT1202</b>	145TTFR16079	★	\$626	E1	82.5	3.8-3.8/1.9	74	14.87	
<b>1 1/2</b>	3600	208-230/460	143TC	<b>GT1203</b>	143TTFR6010	★	\$510	E1	84.0	4.0/2.0	63	13.87	
	3600	575	143TC	<b>GT1403</b>	---	★	\$510	E1	84.0	1.3	63	13.87	
	1800	208-230/460	145TC	<b>GT1204</b>	145TTFR6058	★	\$485	E1	86.5	4.6/2.3	68	14.37	
	1800	575	145TC	<b>GT1404</b>	---	★	\$485	E1	86.5	1.9	68	14.37	
	1200	208-230/460	182TC	<b>GT1205</b>	182TTFB6078	★	\$736	E1	87.5	4.8/2.4	82	15.75	
	1200	208-230/460	184TC	<b>GT1206</b>	184TTFB6078	★	\$843	E1	88.5	6.0/3.0	94	16.75	
<b>2</b>	3600	208-230/460	145TC	<b>GT1206</b>	145TTFR6009	★	\$559	E1	85.5	5.6-5.2/2.6	71	14.37	
	3600	575	145TC	<b>GT1406</b>	---	★	\$559	E1	85.5	1.9	71	14.37	
	1800	208-230/460	145TC	<b>GT1207</b>	145TTFR6040	★	\$520	E1	86.5	6.0/3.0	76	14.87	
	1800	575	145TC	<b>GT1407</b>	---	★	\$520	E1	86.5	2.3	76	14.87	
	1200	208-230/460	184TC	<b>GT1208</b>	184TTFB6078	★	\$843	E1	88.5	6.0/3.0	94	16.75	
<b>3</b>	3600	208-230/460	182TC	<b>GT1209</b>	182TTFB6003	★	\$777	E1	86.5	7.6/3.8	83	15.75	
	3600	575	182TC	<b>GT1409</b>	---	★	\$777	E1	86.5	3.0	83	15.75	
	1800	208-230/460	182TC	<b>GT1210</b>	182TTFB6028	★	\$697	E1	89.5	7.8/3.9	87	15.75	
	1800	575	182TC	<b>GT1410</b>	---	★	\$697	E1	89.5	3.1	87	15.75	
	1200	208-230/460	213TC	<b>GT1211</b>	213TTFBA6078	★	\$1,028	E1	89.5	8.6/4.3	115	19.50	
<b>5</b>	3600	208-230/460	184TC	<b>GT1212</b>	184TTFB6003	★	\$901	E1	88.5	13.4/6.7	95	16.75	
	3600	575	184TC	<b>GT1412</b>	---	★	\$901	E1	88.5	4.8	95	16.75	
	1800	208-230/460	184TC	<b>GT1213</b>	184TTFB6028	★	\$814	E1	89.5	12.4/6.2	110	16.75	
	1800	575	184TC	<b>GT1413</b>	---	★	\$814	E1	89.5	5.1	110	16.75	
	1200	208-230/460	215TC	<b>GT1214</b>	215TTFBA6078	★	\$1,324	E1	89.5	14.0/7.0	135	21.00	
<b>7 1/2</b>	3600	208-230/460	213TC	<b>GT1215</b>	213TTFBA6003	★	\$1,107	E1	89.5	17.8/8.9	116	19.53	
	3600	575	213TC	<b>GT1415</b>	---	★	\$1,107	E1	89.5	7.1	116	19.53	
	1800	208-230/460	213TC	<b>GT1216</b>	213TTFBA6028	★	\$1,005	E1	91.7	18.6/9.3	143	19.53	
	1800	575	213TC	<b>GT1416</b>	---	★	\$1,005	E1	91.7	8.6	143	19.53	
	1200	208-230/460	254TC	<b>GT1217</b>	254TTFCA6078	★	\$2,042	E1	91.0	20.4/10.2	300	26.60	

Blue shaded areas are Cast Iron Frames

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

Continued on next page.

# General Purpose, Three Phase Globetrotter® NEMA Premium® Efficiency

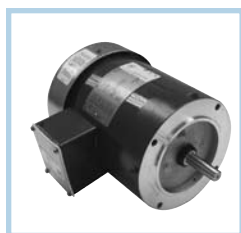
IP44 - Totally Enclosed, C-Face Footed (Rigid Base) and C-Face Footless

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>10</b>	3600	208-230/460	215TC	<b>GT1218</b>	215TTFBA6003	★	\$1,178	E1	90.2	22.8/11.4	137	21.02	
	3600	575	215TC	<b>GT1418</b>	---	★	\$1,178	E1	90.2	9.4	137	21.02	
	1800	208-230/460	215TC	<b>GT1219</b>	215TTFBA6028	★	\$1,143	E1	91.7	24.4/12.2	164	21.00	
	1800	575	215TC	<b>GT1419</b>	---	★	\$1,143	E1	91.7	10.7	164	21.00	
	1200	208-230/460	256TC	<b>GT1220</b>	256TTFCA6078	★	\$2,450	E1	91.0	28.0/14.0	368	27.80	
<b>15</b>	3600	208-230/460	254TC	<b>GT1221</b>	254TTFCA6003	★	\$1,987	E1	91.0	34.0/17.0	350	26.60	
	3600	575	254TC	<b>GT1421</b>	---	★	\$1,987	E1	91.0	14.2	350	26.60	
	1800	208-230/460	254TC	<b>GT1222</b>	254TTFCA6028	★	\$1,877	E1	92.4	37.0/18.5	350	26.60	
	1800	575	254TC	<b>GT1422</b>	---	★	\$1,877	E1	92.4	15.8	350	26.60	
<b>20</b>	3600	208-230/460	256TC	<b>GT1224</b>	256TTFCA6003	★	\$2,413	E1	91.0	46.0/23.0	375	27.80	
	1800	208-230/460	256TC	<b>GT1225</b>	256TTFCA6028	★	\$2,289	E1	93.0	49.0/24.5	425	27.80	
<b>25</b>	3600	208-230/460	284TSC	<b>GT1227</b>	284TSTFCA6003	★	\$3,045	E1	91.7	56.0/28.0	475	28.80	
	1800	208-230/460	284TC	<b>GT1228</b>	284TTFCA6028	★	\$2,807	E1	93.6	61.0/30.5	500	30.15	
<b>30</b>	3600	208-230/460	286TSC	<b>GT1230</b>	286TSTFCA6003	★	\$3,502	E1	91.7	68.0/34.0	500	31.35	
	1800	208-230/460	286TC	<b>GT1231</b>	286TTFCA6028	★	\$3,211	E1	93.6	73.0/36.5	525	39.97	
<b>40</b>	3600	208-230/460	324TSC	<b>GT1233</b>	324TSTFCA6003	★	\$4,657	E1	92.4	88.0/44.0	675	31.18	
	1800	208-230/460	324TC	<b>GT1234</b>	324TTFCA6028	★	\$4,301	E1	94.1	94.0/47.0	750	32.68	
<b>50</b>	3600	208-230/460	326TSC	<b>GT1236</b>	326TSTFCA6003	★	\$5,887	E1	93.0	109/54.5	725	32.36	
	1800	208-230/460	326TC	<b>GT1237</b>	326TTFCA6028	★	\$5,175	E1	94.5	119/59.5	775	33.85	
<b>60</b>	3600	208-230/460	364TSC	<b>GT1239</b>	364TSTFCA6003	★	\$7,807	E1	93.6	132/66.0	925	34.48	
	1800	208-230/460	364TC	<b>GT1240</b>	364TTFCA6038	★	\$7,431	E1	95.0	138/69.0	1000	36.60	
<b>75</b>	3600	208-230/460	365TSC	<b>GT1242</b>	365TSTFCA6003	★	\$9,631	E1	93.6	164/82.0	1025	36.26	
	1800	208-230/460	365TC	<b>GT1243</b>	365TTFCA6038	★	\$9,240	E1	95.4	173/86.5	1100	38.40	
<b>100</b>	3600	208-230/460	405TSC	<b>GT1245</b>	405TSTFC6003	★	\$13,007	E1	94.5	224/112	1250	39.76	
	1800	208-230/460	405TC	<b>GT1246</b>	405TTFC6038	★	\$11,589	E1	95.4	224/112	1375	42.76	

Blue shaded areas are Cast Iron Frames

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

## Severe Duty, Totally Enclosed C-Face Footless, Three Phase



**Features:**

**IP55**

- 303 Stainless steel shafts with contact lip seal & V-ring slinger
- Rolled Steel construction
- Gray epoxy paint
- Class F insulation
- 1.15 Service Factor (except as noted)
- Automatic thermal protection

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/2</b>	1800	230/460	56C	K606	5K42GN4619	★	\$472	F3	72.0	2.2/1.1	30	11.19	
<b>3/4</b>	1800	230/460	56C	K607	5K49MN4620	★	\$518	F3	77.0	3.0/1.5	30	11.69	
<b>1</b>	1800	230/460	56C	K608	5K49MN4618	★	\$542	F3	77.0	3.8/1.9	30	11.69	
<b>1 1/2</b>	1800	230/460	56C	K610	5K49RN4621	★	\$598	F3	80.0	5.0/2.5	33	12.19	
<b>2</b>	1800	230/460	56C	K609	5K49TN4622	★	\$637	F3	81.5	6.2/3.1	38	12.69	17

Blue shaded areas are Cast Iron Frames

\* Requires nameplate modification

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements



# Blue Chip® Severe Duty / Cooling Tower: Single Speed

## Rigid Base , Three Phase



### Features:

- Blue Chip® quality, 100% cast iron construction for rigidity and reduced vibration
- Internal and external epoxy paint
- Class F insulation
- 1.15 Service Factor
- Rated 60/50 hertz, 190/380 or 380 volt at next lower horsepower
- Extended grease tubes, regreasable in service
- T-drains provided for effective drainage (Installed in both endshields)
- Shaft Slinger
- Forsheda seals on both ends
- Ball Bearings
- Actual test and vibration data supplied with each motor
- UL Recognized and CSA Certified
- Suitable for 10:1 VT and CT (as noted) on VFD
- Two year warranty



Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>3</b>	1800	230/460	182T	<b>U867A</b>	182TTFN6557		10:1	<b>\$986</b>	S3	90.2	8.0/4.0	145	15.87	
<b>5</b>	1800	230/460	184T	<b>U868</b>	184TTFS4555	★	10:1	<b>\$921</b>	S3	87.5	13.0/6.5	116	16.19	d
	1800	230/460	184T	<b>U868A</b>	184TTFN6555	★	10:1	<b>\$1,078</b>	S3	90.2	12.4/6.2	128	17.87	
<b>7 1/2</b>	1800	230/460	213T	<b>U869</b>	213TTFS4550	★	10:1	<b>\$1,163</b>	S3	89.5	20.0/10.0	248	18.22	d
	1800	230/460	213T	<b>U869A</b>	213TTFN6550	★	10:1	<b>\$13,160</b>	S3	91.7	19.2/9.6	273	18.22	
<b>10</b>	1800	230/460	215T	<b>U870</b>	215TTFS4546	★	10:1	<b>\$1,332</b>	S3	91.0	26.0/13.0	243	19.72	d
	1800	230/460	215T	<b>U870A</b>	215TTFN6546	★	10:1	<b>\$1,558</b>	S3	91.7	25/12.5	267	19.72	
<b>15</b>	1800	230/460	254T	<b>U871</b>	254TTFNA4549	★	10:1	<b>\$1,719</b>	S3	91.0	39.0/19.5	317	23.52	d
	1800	230/460	254T	<b>U871A</b>	254TTFNA16568	★	10:1	<b>\$2,010</b>	S3	92.4	37.5/18.8	349	23.52	
<b>20</b>	1800	230/460	256T	<b>U872</b>	256TTFNA4532	★	10:1	<b>\$2,010</b>	S3	91.0	50.0/25.0	341	25.27	d
	1800	230/460	256T	<b>U872A</b>	256TTFNA16574	★	10:1	<b>\$2,363</b>	S3	93.0	48.0/24.1	375	25.27	
<b>25</b>	1800	230/460	284T	<b>U873</b>	284TTFPA4545	★	10:1	<b>\$2,396</b>	S3	92.4	62.0/31.0	400	26.27	d
	1800	230/460	284T	<b>U873A</b>	284TTFNA16832	★	10:1	<b>\$2,801</b>	S3	93.6	62.0/31.0	440	26.34	
<b>30</b>	1800	230/460	286T	<b>U874</b>	286TTFPA4544	★	10:1	<b>\$2,803</b>	S3	92.4	74.0/37.0	457	27.77	d
	1800	230/460	286T	<b>U874A</b>	286TTFNA16572	★	10:1	<b>\$3,278</b>	S3	94.1	73.0/36.5	503	27.84	
<b>40</b>	1800	230/460	324T	<b>U875</b>	324TTFPA4540	★	2:1	<b>\$3,634</b>	S3	93.0	100/50.0	515	28.97	d
	1800	230/460	324T	<b>U875A</b>	324TTFS16837	★	2:1	<b>\$4,249</b>	S3	94.1	95.0/47.5	567	30.37	
<b>50</b>	1800	230/460	326T	<b>U876</b>	326TTFPA4550	★	2:1	<b>\$4,491</b>	S3	93.0	122/61.0	585	30.47	d
	1800	230/460	326T	<b>U876A</b>	326TTFS16574	★	2:1	<b>\$5,351</b>	S3	94.5	120/60.0	644	30.37	
<b>60</b>	1800	230/460	364T	<b>U877A</b>	364TTFS16558	★	2:1	<b>\$7,489</b>	S3	95.0	138/69.0	1078	31.50	
<b>75</b>	1800	230/460	365T	<b>U878</b>	365TTFS4560	★	2:1	<b>\$77,973</b>	S3	94.1	178/89.0	1063	32.50	d
	1800	230/460	365T	<b>U878A</b>	365TTFS16827	★	2:1	<b>\$9,323</b>	S3	95.4	172/86.0	1169	32.50	
<b>100</b>	1800	230/460	405T	<b>U879</b>	405TTFS4560	★	2:1	<b>\$9,873</b>	S3	94.5	228/114	1325	37.12	d
	1800	230/460	405T	<b>U879A</b>	405TTFS16834	★	2:1	<b>\$11,545</b>	S3	95.4	226/113	1458	37.12	
<b>125</b>	1800	460	444T	<b>U880A</b>	444TTFN16549	★	2:1	<b>\$14,863</b>	S3	95.4	145	1990	43.35	
	<b>150</b>	1800	460	445T	<b>U881</b>	445TTFN4826	★	2:1	<b>\$15,135</b>	S3	95.0	172	2130	43.26
	1800	460	445T	<b>U881A</b>	445TTFN16866	★	2:1	<b>\$17,698</b>	S3	95.8	172	2343	43.35	
<b>200</b>	1800	460	445T	<b>U882A</b>	445TTFN16852		2:1	<b>\$21,125</b>	S3	96.2	226	2556	43.35	
<b>250</b>	1800	460	445T	<b>U884</b>	445TTFN4575		2:1	<b>\$20,413</b>	S3	95.0	285	2409	43.26	

# Blue Chip® Severe Duty / Automotive Duty NEMA Premium® XRI®

## Totally Enclosed, Rigid Base, Three Phase



**Applications:** Chemical plants, paper mills, refineries, mines, food processing, foundries, and other severe duty environments where long life and ultra-high efficiency are desired. Guaranteed efficiencies offer an **eXtra Return** on your **Investment** when using these premium efficiency motors on high cycle or long run applications.

**Features:**

- **Meets or exceeds NEMA Premium® efficiencies**, except where noted
- **NEMA Premium® models are in compliance with EISA2007**
- Blue Chip® quality, 100% cast iron construction for rigidity and reduced vibration
- Provisions to add stub shaft for an encoder (182T-449T, TEFC only)
- Internal and external epoxy paint
- MAX GUARD® Class F insulation system
- Constant Torque speed range is listed in CT SPEED RANGE column
- 1.15 Service Factor on sinewave , 1.0 Service Factor on IGBT power
- Bearing caps (254T and larger)
- Precision balanced to .08"/sec
- Extended grease tubes, regreasable in service
- Brass drain and breather
- Meets IEEE45 USCG Marine Duty, IP54 Construction
- Meets Ford EM1 Automotive Duty Specification
- Hazardous Duty™ Division 2 CSA certification nameplate
- Division 2 / Zone 2 Class I (gases), Groups A, B, C, D
- Meets temperature code T2B
- Actual test and vibration data supplied with each motor
- Ball bearings (except as noted)
- UL Recognized (through 449T) and CSA Certified and CE Marked
- Three year warranty



**Models through 40 HP are capable of modification as follows (contact factory to confirm):**

- 1.25 Service Factor (sinewave only)
- 50Hz at same HP, 1.0 Service Factor (sinewave only)
- Any nameplate changes are subject to modification charges (see MOD Central section)
- Contact Marathon Electric for optional nameplate markings on 50 HP and larger

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C FACE KIT
<b>3/4</b>	1200	460	143T	E648	143TTTN6576	★	1000:1	\$600	E9	80.0	1.4	53	10.43	75,76,N,NE	A603
	1200	460	143T	E373	143TTFN6576		20:1	\$660	E9	80.0	1.4	53	12.92	75,76,NE	A603
<b>1</b>	1800	460	143T	<b>E649</b>	143TTTN6526	★	1000:1	\$490	E9	85.5	1.5	55	10.43	75,76,N,NE	A603
	1800	460	143T	<b>E374</b>	143TTFN6526		20:1	\$539	E9	85.5	1.5	71	12.92	75,76	A603
	1800	230/460	143T	<b>E461</b>	143TTTN6563	★	1000:1	\$490	E9	85.5	3.1/1.5	55	12.95	75,76,N,NE	A603
	1800	230/460	143T	<b>E375</b>	143TTFN6563		20:1	\$539	E9	85.5	3.1/1.5	71	12.95	75,76	A603
	1800	575	143T	<b>E666</b>	143TTTN6530	★	1000:1	\$490	E9	85.5	1.2	55	10.43	75,76,N,NE	A603
	1800	575	143T	<b>E376</b>	143TTFN16539		20:1	\$539	E9	85.5	1.2	71	14.17	75,76	A603
	1200	460	145T	<b>E650</b>	145TTTN6576	★	1000:1	\$616	E9	80.0	1.65	60	11.43	75,76,N,NE	A655
	1200	230/460	145T	<b>E462</b>	145TTTN6584		1000:1	\$616	E9	80.0	3.3/1.65	60	11.43	75,76,N,NE	A655
<b>1 1/2</b>	3600	460	143T	<b>E651</b>	143TTTN6501	★	1000:1	\$613	E9	86.5	2.0	58	10.43	75,76,N,NE	A603
	3600	460	143T	<b>E377</b>	143TTFN6501		20:1	\$673	E9	85.5	2.0	64	14.17	75,76	A603
	3600	230/460	143T	<b>E463</b>	143TTTN6502		1000:1	\$613	E9	86.5	4.0/2.0	58	10.43	75,76,N,NE	A603
	3600	230/460	143T	<b>E378</b>	143TTFN6502		20:1	\$673	E9	85.5	4.0/2.0	64	14.17	75,76	A603
	3600	575	143T	<b>E851</b>	143TTTN6505		1000:1	\$613	E9	86.5	1.6	58	10.43	75,76,N,NE,d	A603
	3600	575	143T	<b>E379</b>	143TTFN6505		20:1	\$673	E9	85.5	1.6	64	14.17	75,76	A603
	1800	460	145T	<b>E652</b>	145TTTN6526	★	1000:1	\$531	E9	84.0	2.2	65	11.43	75,76,N,NE	A655
	1800	230/460	145T	<b>E464</b>	145TTTN6834	★	1000:1	\$531	E9	84.0	4.4/2.2	65	11.43	75,76,N,NE	A655
	1800	575	145T	<b>E667</b>	145TTTN6529		1000:1	\$531	E9	84.0	1.8	65	11.43	75,76,N,NE	A655
	1200	460	182T	<b>E632</b>	182TTTS6576	★	1000:1	\$788	E9	87.5	2.2	100	12.71	75,76,N,NE	A644
	1200	460	182T	<b>E380</b>	182TTFS6576		20:1	\$867	E9	87.5	2.2	110	15.19	75	A644
	1200	230/460	182T	<b>E465</b>	182TTTS6578		1000:1	\$788	E9	87.5	4.4/2.2	100	12.71	75,N,NE	A644
<b>2</b>	3600	460	145T	<b>E653</b>	145TTTN6501	★	1000:1	\$642	E9	85.5	2.5	68	11.43	75,76,N,NE	A655
	3600	460	145T	<b>E382</b>	145TTFN6501		20:1	\$707	E9	85.5	2.0	80	14.17	75,76	A655
	3600	230/460	145T	<b>E466</b>	145TTTN6521		1000:1	\$642	E9	85.5	5.0/2.5	68	11.43	75,76,N,NE	A655
	3600	230/460	145T	<b>E383</b>	145TTFN6521		20:1	\$707	E9	85.5	4.0/2.0	80	14.17	75,76	A655
	3600	575	145T	<b>E852</b>	145TTTN6505		1000:1	\$642	E9	85.5	2.0	68	11.43	75,76,N,NE	A655

Blue shaded areas are Cast Iron Frames

\* Requires nameplate modification

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

Continued on next page.

# Blue Chip® Severe Duty / Automotive Duty NEMA Premium® XRI®

Totally Enclosed, Rigid Base, Three Phase

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C FACE KIT
<b>2</b>	1800	460	145T	<b>E654</b>	145TTTN6527	★	1000:1	\$584	E9	85.5	3.0	68	11.43	75,76,N,NP	A655
	1800	230/460	145T	<b>E467</b>	145TTTN6835	★	1000:1	\$584	E9	85.5	6.0/3.0	68	11.43	75,76,N,NP	A655
	1800	230/460	145T	<b>E386</b>	145TTFN6835		20:1	\$642	E9	86.5	5.6/2.8	68	14.17	75,76	A655
	1800	575	145T	<b>E668</b>	145TTTN6530		1000:1	\$584	E9	85.5	2.4	68	11.43	75,76,N,NP	A655
	1200	460	184T	<b>E633</b>	184TTTS6576	★	1000:1	\$974	E9	88.5	3.0	112	13.71	75,N	A644
	1200	460	184T	<b>E388</b>	184TTFS6576		20:1	\$1,071	E9	88.5	2.9	110	16.19	75	A644
	1200	230/460	184T	<b>E468</b>	184TTTS6582	★	1000:1	\$974	E9	88.5	6.0/3.0	112	13.71	75,N	A644
<b>3</b>	3600	460	182T	<b>E601</b>	182TTTS6501	★	1000:1	\$882	E9	87.5	3.8	98	12.71	75,N	A644
	3600	230/460	182T	<b>E390</b>	128TTFS6501		20:1	\$971	E9	87.5	3.8	105	15.19	75	A644
	3600	575	182T	<b>E853</b>	182TTTS6505		1000:1	\$882	E9	87.5	3.0	105	12.71	75,N	A644
	3600	575	182T	<b>E392</b>	182TTFS6505		20:1	\$971	E9	87.5	3.0	105	21.57	75	A644
	1800	460	182T	<b>E616</b>	182TTTS6526	★	1000:1	\$791	E9	90.2	4.0	102	12.71	75,N	A644
	1800	230/460	182T	<b>E470</b>	182TTTS6538	★	1000:1	\$791	E9	90.2	8.0/4.0	102	12.71	75,N	A644
	1800	575	182T	<b>E669</b>	182TTTS6530	★	1000:1	\$791	E9	90.2	3.2	102	12.71	75,N	A644
	1200	460	213T	<b>E634</b>	213TTFS6576	★	20:1	\$1,199	E9	89.5	4.4	176	18.22	75	A206
	1200	230/460	213T	<b>E471</b>	213TTFS6594	★	20:1	\$1,199	E9	89.5	8.8/4.4	176	18.22	75	A206
<b>5</b>	3600	460	184T	<b>E602</b>	184TTFS6501	★	2:1	\$980	E9	89.5	5.9	142	16.19	75	A644
	3600	230/460	184T	<b>E472</b>	184TTFS6810	★	2:1	\$980	E9	89.5	11.8/5.9	142	16.19	75	A644
	3600	575	184T	<b>E655</b>	184TTFS6505	★	20:1	\$980	E9	89.5	4.7	142	16.19	75	A644
	1800	460	184T	<b>E617</b>	184TTFS6526	★	20:1	\$917	E9	90.2	6.2	130	16.19	75	A644
	1800	230/460	184T	<b>E473</b>	184TTFS6844	★	20:1	\$917	E9	90.2	12.4/6.2	130	16.19	75	A644
	1800	575	184T	<b>E670</b>	184TTFS6530	★	20:1	\$917	E9	90.2	5.0	130	16.19	75	A644
	1200	460	215T	<b>E635</b>	215TTFS6576	★	20:1	\$1,473	E9	89.5	6.9	202	19.72	75	A206
	1200	230/460	215T	<b>E474</b>	215TTFS6881	★	20:1	\$1,473	E9	89.5	13.8/6.9	202	19.72	75	A206
	1200	575	215T	<b>E683</b>	215TTFS6580	★	20:1	\$1,473	E9	89.5	5.5	202	19.72	75,d	A206
	<b>7 1/2</b>	3600	460	213T	<b>E603</b>	213TTTS6501	★	1000:1	\$1,184	E9	91.7	8.9	200	17.19	75,N
3600		460	213T	<b>E396</b>	213TTFS6501		2:1	\$1,303	E9	89.5	8.9	175	19.72	75	A206
3600		230/460	213T	<b>E475</b>	213TTTS6502	★	1000:1	\$1,184	E9	91.7	17.8/8.9	200	17.19	75,N	A206
3600		575	213T	<b>E656</b>	213TTTS6505	★	1000:1	\$1,184	E9	91.7	7.1	200	17.19	75,N	A206
1800		460	213T	<b>E618</b>	213TTFS6526	★	20:1	\$1,124	E9	91.7	9.6	200	19.72	75	A206
1800		230/460	213T	<b>E476</b>	213TTFS6531	★	20:1	\$1,124	E9	91.7	19.2/9.6	200	19.72	75	A206
1800		575	213T	<b>E671</b>	213TTFS6530	★	20:1	\$1,124	E9	91.7	7.7	200	19.72	75	A206
1200		460	254T	<b>E636</b>	254TTFNA6576	★	20:1	\$1,909	E9	91.0	9.9	326	23.52	75	A284
1200		230/460	254T	<b>E477</b>	254TTFNA6590	★	20:1	\$1,909	E9	91.0	19.8/9.9	326	23.52	75	A284
1200		575	254T	<b>E684</b>	254TTFNA6578		20:1	\$1,909	E9	91.0	7.9	326	23.52	75	A284
<b>10</b>		3600	460	215T	<b>E604</b>	215TTFS6501	★	2:1	\$1,382	E9	91.7	11.8	218	19.72	75
	3600	230/460	215T	<b>E478</b>	215TTFS6807	★	2:1	\$1,382	E9	91.7	23.6/11.8	218	19.72	75	A206
	3600	575	215T	<b>E657</b>	215TTFS6505		2:1	\$1,382	E9	91.7	9.5	218	19.72	75	A206
	1800	460	215T	<b>E619</b>	215TTFS6526	★	20:1	\$1,353	E9	91.7	12.5	225	19.72	75	A206
	1800	230/460	215T	<b>E479</b>	215TTFS6527	★	20:1	\$1,353	E9	91.7	25.0/12.5	225	19.72	75	A206
	1800	575	215T	<b>E672</b>	215TTFS6530	★	20:1	\$1,353	E9	91.7	10.0	225	19.72	75	A206
	1200	460	256T	<b>E637</b>	256TTFNA6576	★	20:1	\$2,333	E9	91.0	13.1	405	25.27	75	A284
	1200	230/460	256T	<b>E480</b>	256TTFNA6596	★	20:1	\$2,333	E9	91.0	26.2/13.1	405	25.27	75	A284
	1200	575	256T	<b>E685</b>	256TTFNA6578		20:1	\$2,333	E9	91.0	10.5	405	25.27	75	A284

SEVERE DUTY

Blue shaded areas are Cast Iron Frames

\* Requires nameplate modification

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet IEA requirements

Continued on next page.

# Blue Chip® Severe Duty / Automotive Duty NEMA Premium® XRI®

## Totally Enclosed, Rigid Base, Three Phase

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C FACE KIT
<b>15</b>	3600	460	254T	<b>E605</b>	254TTFNA6501	★	2:1	\$1,852	E9	91.7	17.5	345	23.52	75	A284
	3600	230/460	254T	<b>E481</b>	254TTFNA6515	★	2:1	\$1,852	E9	91.7	35.0/17.5	345	23.52	75	A284
	3600	575	254T	<b>E658</b>	254TTFNA6503		2:1	\$1,852	E9	91.7	14.2	345	23.52	75	A284
	1800	460	254T	<b>E620</b>	254TTFNA6526	★	20:1	\$1,738	E9	92.4	18.8	350	23.52	75	A284
	1800	230/460	254T	<b>E482</b>	254TTFNA6529	★	20:1	\$1,738	E9	92.4	37.6/18.8	350	23.52	75	A284
	1800	575	254T	<b>E673</b>	254TTFNA6528	★	20:1	\$1,738	E9	92.4	15.0	350	23.52	75	A284
	1200	460	284T	<b>E638</b>	284TTFNA6576	★	20:1	\$3,096	E9	91.7	20.4	479	26.34		A618
	1200	230/460	284T	<b>E483</b>	284TTFNA6876	★	20:1	\$3,096	E9	91.7	40.8/20.4	479	26.34		A618
	1200	575	284T	<b>E694</b>	284TTFNA6580		20:1	\$3,096	E9	91.7	16.3	479	26.34		A618
<b>20</b>	3600	460	256T	<b>E606</b>	256TTFNA6501	★	2:1	\$2,294	E9	92.4	23.4	375	25.27	75	A284
	3600	230/460	256T	<b>E484</b>	256TTFNA6523		2:1	\$2,294	E9	92.4	47.0/23.4	375	25.27	75	A284
	3600	575	256T	<b>E659</b>	256TTFNA6503	★	2:1	\$2,294	E9	92.4	18.7	375	25.27	75	A284
	1800	460	256T	<b>E621</b>	256TTFNA6526	★	20:1	\$2,166	E9	93.0	24.1	425	25.27	75	A284
	1800	230/460	256T	<b>E485</b>	256TTFNA6529	★	20:1	\$2,166	E9	93.0	48.2/24.1	425	25.27	75	A284
	1800	575	256T	<b>E674</b>	256TTFNA6528	★	20:1	\$2,166	E9	93.0	19.3	425	25.27	75	A284
	1200	460	286T	<b>E639</b>	286TTFNA6576	★	20:1	\$3,771	E9	91.7	26.8	550	27.84		A618
	1200	230/460	286T	<b>E486</b>	286TTFNA6876		20:1	\$3,771	E9	91.7	53.5/26.8	550	27.84		A618
	1200	575	286T	<b>E695</b>	286TTFNA6580		20:1	\$3,771	E9	91.7	21.4	550	27.84		A618
<b>25</b>	3600	460	284TS	<b>E607</b>	284TSTFNA6501	★	2:1	\$2,826	E9	93.6	28.1	481	24.97		A618
	3600	575	284TS	<b>E660</b>	284TSTFNA6502		2:1	\$2,826	E9	93.6	22.5	481	24.97		A618
	1800	460	284T	<b>E622</b>	284TTFNA6526	★	20:1	\$2,579	E9	93.6	31.0	478	26.34		A618
	1800	230/460	284T	<b>E488</b>	284TTFNA6837	★	20:1	\$2,579	E9	93.6	62.0/31.0	478	26.34		A618
	1800	575	284T	<b>E675</b>	284TTFNA6527	★	20:1	\$2,579	E9	93.6	24.8	478	26.34		A618
	1200	460	324T	<b>E640</b>	324TTFS6576	★	20:1	\$4,571	E9	93.0	32.5	675	28.87		A214
	1200	575	324T	<b>E696</b>	324TTFS6577		20:1	\$4,571	E9	93.0	26.0	675	28.87		A214
<b>30</b>	3600	460	286TS	<b>E608</b>	286TSTFNA6501	★	2:1	\$3,300	E9	93.6	34.1	500	26.47		A618
	3600	230/460	286TS	<b>E490</b>	286TSTFNA6804	★	2:1	\$3,300	E9	93.6	67.5/34.0	500	26.47		A618
	1800	460	286T	<b>E623</b>	286TTFNA6526	★	20:1	\$2,999	E9	94.1	36.5	525	27.84		A618
	1800	230/460	286T	<b>E491</b>	286TTFNA6570	★	20:1	\$2,999	E9	94.1	73.0/36.5	525	27.84		A618
	1800	575	286T	<b>E676</b>	286TTFNA6527	★	20:1	\$2,999	E9	94.1	29.2	525	27.84		A618
	1200	460	326T	<b>E641</b>	326TTFS6576	★	20:1	\$5,266	E9	93.0	38.5	725	30.37		A214
	1200	575	326T	<b>E400</b>	326TTFS6580		20:1	\$5,266	E9	93.0	31.0	725	30.37		A214
<b>40</b>	3600	460	324TS	<b>E609</b>	324TSTFS6501	★	2:1	\$4,353	E9	93.6	47.0	656	27.37		A214
	3600	575	324TS	<b>E662</b>	324TSTFS6505		2:1	\$4,353	E9	93.6	37.5	656	27.37		A214
	1800	460	324T	<b>E624</b>	324TTFS6526	★	20:1@	\$3,983	E9	94.1	47.5	700	30.37		A214
	1800	575	324T	<b>E677</b>	324TTFS6527	★	20:1@	\$3,983	E9	94.1	38.0	700	30.37		A214
	1200	460	364T	<b>E642A</b>	364TTFS16584	★	20:1@	\$7,670	E9	94.1	50.0	950	31.50		A395
	1200	575	364T	<b>E401A</b>	364TTFS16585		20:1@	\$7,670	E9	94.1	40.0	950	31.50		A395
<b>50</b>	3600	460	326TS	<b>E610</b>	326TSTFS6501	★	2:1	\$5,631	E9	93.6	58.0	725	28.87		A214
	3600	575	326TS	<b>E663</b>	326TSTFS6502		2:1	\$5,631	E9	93.6	46.5	725	28.87		A214
	1800	460	326T	<b>E625</b>	326TTFS6526	★	20:1@	\$4,892	E9	94.5	60.0	775	31.87		A214
	1800	460	326TS	<b>E453</b>	326TSTFS6536		20:1@	\$4,892	E9	94.5	60.0	775	28.87		A214
	1800	575	326T	<b>E678</b>	326TTFS6527	★	20:1@	\$4,892	E9	94.5	48.0	775	30.37		A214
	1200	460	365T	<b>E643A</b>	365TTFS16591	★	20:1@	\$8,623	E9	94.1	61.5	955	32.50		A395
	1200	575	365T	<b>E402A</b>	365TTFS16592		20:1@	\$8,623	E9	94.1	49.0	955	32.50		A395
<b>60</b>	3600	460	364TS	<b>E611</b>	364TSTFS6501	★	2:1	\$7,407	E9	94.5	67.0	954	29.38		A396
	3600	575	364TS	<b>E664</b>	364TSTFS6505		2:1	\$7,407	E9	94.5	53.5	954	29.38		A396
	1800	460	364T	<b>E626</b>	364TTFS6536	★	20:1@	\$7,018	E9	95.0	69.0	980	31.50		A396
	1800	460	364TS	<b>E454</b>	364TSTFS6526		20:1@	\$7,018	E9	95.0	69.0	980	29.38		A396
	1800	575	364T	<b>E679</b>	364TTFS6537	★	20:1@	\$7,018	E9	95.0	55.0	980	31.50		A396

SEVERE DUTY

Blue shaded areas are Cast Iron Frames

\* Requires nameplate modification  
@ Requires larger fan

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

Continued on next page.



# Blue Chip® Severe Duty / Automotive Duty NEMA Premium® XRI®

## Totally Enclosed, Rigid Base, Three Phase

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C FACE KIT
<b>60</b>	1200	460	404T	<b>E644</b>	404TTFS6586	*	20:1@	<b>\$9,602</b>	E9	94.5	72.0	1156	35.62		A223
	1200	575	404T	<b>E403</b>	404TTFS6592		20:1@	<b>\$9,602</b>	E9	94.5	57.5	1156	35.62		A223
<b>75</b>	3600	460	365TS	<b>E612</b>	365TSTFS6501	*	2:1	<b>\$9,302</b>	E9	94.5	84.0	1002	30.38		A396
	3600	575	365TS	<b>E665</b>	365TSTFS6502	*	2:1	<b>\$9,302</b>	E9	94.5	67.0	1002	30.38		A396
	1800	460	365T	<b>E627</b>	365TTFS6536	*	20:1@	<b>\$8,896</b>	E9	95.4	86.0	1100	32.50		A395
	1800	460	365TS	<b>E455</b>	365TSTFS6526	*	20:1@	<b>\$8,896</b>	E9	95.4	86.0	1100	30.38		A396
	1800	575	365T	<b>E680</b>	365TTFS6537	*	20:1@	<b>\$8,896</b>	E9	95.4	69.0	1100	32.50		A395
	1200	460	405T	<b>E645</b>	405TTFS6586	*	20:1@	<b>\$11,304</b>	E9	94.5	90.0	1280	37.12		A223
	1200	575	405T	<b>E404</b>	405TTFS6587		20:1@	<b>\$11,304</b>	E9	94.5	71.5	1280	37.12		A223
	<b>100</b>	3600	460	405TS	<b>E613</b>	405TSTFS6501	*	2:1	<b>\$12,465</b>	E9	95.0	108	1295	34.12	
3600		575	405TS	<b>E493</b>	405TSTFS6502		2:1	<b>\$12,465</b>	E9	95.0	87.0	1295	34.12		A226
1800		460	405T	<b>E628</b>	405TTFS6536	*	20:1@	<b>\$10,991</b>	E9	95.4	113	1330	37.12		A223
1800		460	405TS	<b>E456</b>	405TSTFS6526	*	20:1@	<b>\$10,991</b>	E9	95.4	113	1330	34.12		A226
1800		575	405T	<b>E681</b>	405TTFS6538	*	20:1@	<b>\$10,991</b>	E9	95.4	90.5	1330	37.12		A223
1200		460	444T	<b>E327</b>	444TTFN16577		20:1@	<b>\$16,975</b>	E9	95.0	124	1970	41.25		A620
1200		460	444T	<b>E646A</b>	444TTFN16581	*	20:1@	<b>\$16,975</b>	E9	95.0	119	1690	41.25		A229
1200		575	444T	<b>E405A</b>	444TTFS16582		20:1@	<b>\$16,975</b>	E9	95.0	94.5	1690	41.25		A229
<b>125</b>		3600	460	444TS	<b>E614</b>	444TSTFS6501	*	2:1	<b>\$16,295</b>	E9	95.4	136	1725	37.50	
	3600	575	444TS	<b>E494</b>	444TSTFS6505		2:1	<b>\$16,295</b>	E9	95.4	109	1725	37.50		A232
	1800	460	444T	<b>E629</b>	444TTFS6536	*	20:1@	<b>\$14,469</b>	E9	95.4	141	1725	41.25		A229
	1800	460	444TS	<b>E457</b>	444TSTFS6526	*	20:1@	<b>\$14,469</b>	E9	95.4	141	1725	37.50		A232
	1800	575	444T	<b>E697</b>	444TTFS6540		20:1@	<b>\$14,469</b>	E9	95.4	113	1725	41.25		A229
	1200	460	445T	<b>E647</b>	445TTFN6586	*	20:1@	<b>\$18,975</b>	E9	95.0	155	2000	43.26		A620
	1200	575	445T	<b>E406</b>	445TTFN6590		20:1@	<b>\$18,975</b>	E9	95.0	124	2000	43.26		A620
	<b>150</b>	3600	460	445TS	<b>E615</b>	445TSTFN6501	*	2:1	<b>\$19,574</b>	E9	95.8	165	2187	39.44	
3600		575	445TS	<b>E495</b>	445TSTFN6502		2:1	<b>\$19,574</b>	E9	95.8	132	2187	39.44		A621
1800		460	445T	<b>E630</b>	445TTFN6536	*	20:1@	<b>\$16,822</b>	E9	95.8	172	2070	43.26		A620
1800		460	445TS	<b>E458</b>	445TSTFN6526	*	20:1@	<b>\$16,822</b>	E9	95.8	172	2070	39.44		A621
1800		575	445T	<b>E682</b>	445TTFN6537		20:1@	<b>\$16,822</b>	E9	95.8	138	2070	43.26		A620
1200		460	445T	<b>E448</b>	445TTFN6587	*	20:1@	<b>\$21,229</b>	E9	95.8	180	2500	43.26	H, RB	N/A
1200		575	445T	<b>E407</b>	445TTFN6591		20:1@	<b>\$21,229</b>	E9	95.8	145	2500	43.26	RB	N/A
<b>200</b>		3600	460	445TS	<b>E449</b>	445TSTFN6505	*	2:1	<b>\$24,762</b>	E9	95.8	222	2300	39.44	H
	3600	575	445TS	<b>E496</b>	445TSTFN6506		2:1	<b>\$24,762</b>	E9	95.8	178	2300	39.44		A621
	1800	460	445T	<b>E631</b>	445TTFN6538	*	20:1@	<b>\$20,459</b>	E9	96.2	226	2437	43.26	RB	N/A
	1800	460	445TS	<b>E459</b>	445TSTFN6528	*	20:1@	<b>\$20,459</b>	E9	96.2	226	2437	39.44	H	A621
	1800	460	447/9T	<b>E770</b>	449TTFS6530	*	20:1@	<b>\$23,528</b>	E9	96.5	225	2700	51.69	H	A623
	1800	460	447/9T	<b>E854</b>	449TTFS6540	*	20:1@	<b>\$23,528</b>	E9	96.5	225	2700	51.69	H, RB	N/A
	1800	575	447/9T	<b>E856</b>	449TTFS6564	*	20:1@	<b>\$23,528</b>	E9	96.5	180	2700	51.69	H, RB	N/A
	1200	460	447/9T	<b>E773</b>	449TTFS6578	*	20:1@	<b>\$25,988</b>	E9	95.8	240	2927	51.69	H	A623
	1200	460	447/9T	<b>E687</b>	449TTFS6588	*	20:1@	<b>\$25,988</b>	E9	95.8	240	2927	51.69	H, RB	N/A
	1200	575	447/9T	<b>E408</b>	449TTFS6582		20:1@	<b>\$25,988</b>	E9	95.8	192	2927	51.69	H, RB	N/A
	<b>250</b>	3600	460	447/9TS	<b>E699</b>	449TSTFS6503		2:1	<b>\$31,230</b>	E9	95.8	275	2700	47.88	H, NE
1800		460	445T	<b>E450</b>	445TTFN6540		20:1@	<b>\$25,668</b>	E9	95.8	285	2450	43.26	H, NE, RB	N/A
1800		460	447/9T	<b>E771</b>	449TTFS6528	*	20:1@	<b>\$29,517</b>	E9	96.5	285	2830	51.69	H, NE	A623
1800		460	447/9T	<b>E690</b>	449TTFS6538	*	20:1@	<b>\$29,517</b>	E9	96.5	285	2830	51.69	H, NE, RB	N/A
1200		460	L447/9T	<b>E774</b>	449TTFS6577		20:1@	<b>\$29,874</b>	E9	95.8	300	3415	51.69	H, NE	A623
1200		460	L447/9T	<b>E688</b>	449TTFS6587		20:1@	<b>\$29,874</b>	E9	95.8	300	3415	51.69	H, NE, RB	N/A

SEVERE DUTY

Blue shaded areas are Cast Iron Frames

\* Requires nameplate modification  
@ Requires larger fan

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

Continued on next page.



# Blue Chip® Severe Duty / Automotive Duty NEMA Premium® XRI®

## Totally Enclosed, Rigid Base, Three Phase

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C FACE KIT
<b>300</b>	3600	460	447/9TS	<b>E698</b>	449TSTFS6502		2:1	\$40,479	E9	96.2	330	2700	47.88	H,NE	A626
	1800	460	447/9T	<b>E691</b>	449TTFS6537	*	20:1@	\$29,331	E9	96.5	339	3211	51.69	H,NE,RB	N/A
	1800	460	447/9T	<b>E772</b>	449TTFS6527		20:1@	\$29,331	E9	96.5	339	3211	51.69	H,NE	A623
	1800	575	447/9T	<b>E345</b>	449TTFS16534		20:1@	\$29,331	E9	96.5	271	3211	51.69	H,NE,RB	N/A
<b>350</b>	3600	460	447/9TS	<b>E769</b>	449TSTFS6501		2:1	\$46,420	E9	95.8	380	3064	47.88	H,NE	A624
	1800	460	447/9T	<b>E692</b>	449TTFS6536	*	20:1@	\$38,274	E9	96.2	395	3350	51.69	H,NE,RB	N/A
<b>400</b>	3600	460	5011S	<b>E369</b>	---		N/A	\$55,099	S6	95.8	432	5500	67.19	NE,90	N/A
	1800	460	L447/9T	<b>E776</b>	449TTFS16553		20:1@	\$39,295	E9	96.2	448	3800	56.71	H,NE,79	N/A
	1200	460	5011LS	<b>E362</b>	---		N/A	\$68,918	S6	95.8	468	5500	67.19	NE,77,79,90	N/A
<b>450</b>	1800	460	L447/9T	<b>E777</b>	---		N/A	\$40,177	E9	96.5	515	3800	56.71	H,NE,79	N/A
	1200	460	5013LS	<b>E363</b>	5013LSTFS6595		N/A	\$91,917	S6	96.2	525	7200	67.19	A,NE,77,79,90	N/A
<b>500</b>	1800	460	5011LS	<b>E364</b>	5011LSTFS16031		N/A	\$63,352	S6	96.2	555	5500	67.19	NE,77,79,90	N/A
	1200	460	5013LS	<b>E365</b>	---		N/A	\$93,219	S6	96.2	580	7200	76.19	NE,78,79,90	N/A
<b>600</b>	1800	460	5011LS	<b>E366</b>	5011LSTFS16033		N/A	\$75,063	S6	96.2	655	5500	67.19	A,NE,77,79,90	N/A

Blue shaded areas are Cast Iron Frames

\* Requires nameplate modification  
@ Requires larger fan

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

SEVERE DUTY

# Blue Chip® Severe Duty / Automotive Duty NEMA Premium® XRI® IEEE-841

## Totally Enclosed, Rigid Base, Three Phase



**Applications:** For extreme applications in the process industries such as chemical plants, pulp and paper mills, refineries, above-ground mines, food processing, foundries, and other severe duty environments where long life and ultra-high efficiency are required. Guaranteed efficiencies offer an **eXtra Return** on your **I**nvestment when using these premium efficiency motors on high cycle or long run time applications.

**Features:**

- **Meets or exceeds NEMA Premium® efficiencies**, except where noted
- **NEMA Premium® models are in compliance with EISA2007**
- Meets IEEE-841 standard for severe duty applications
- Blue Chip® quality, 100% cast iron construction for rigidity and reduced vibration
- Inpro/Seal® VBX® bearing isolators on drive end shaft extension TENV and on both ends of TEFC
- Provisions to add stub shaft for an encoder (182T-449T, TEFC only)
- Internal and external epoxy paint
- MAX GUARD® Class F insulation system
- Constant Torque speed range is listed in CT SPEED RANGE column
- 1.15 Service Factor on sinewave, 1.0 Service Factor on IGBT power
- Bearing caps (254T and larger)
- Precision balanced to .08"/sec
- Extended grease tubes, regreasable in service
- Brass drain and breather
- Meets General Motors GM 7E-TA Automotive Duty Specification
- Meets IEEE45 USCG Marine Duty, API RPI4F for offshore platforms, IP56
- Meets NEMA MG1 - 1.26.6 Waterproof specification
- Hazardous Duty™ Division 2 CSA certification nameplate
- Division 2 / Zone 2 Class I (gases), Groups A, B, C, D
- Meets temperature code T2B
- Actual test and vibration data supplied with each motor
- Ball bearings (except as noted)
- UL Recognized (through 449T) and CSA Certified and CE Marked
- Five year warranty



**Models through 40 HP are capable of modification as follows (contact factory to confirm):**

- 1.25 Service Factor (sinewave only)
- 50Hz at same HP, 1.0 Service Factor (sinewave only)
- Any nameplate changes are subject to modification charges (see MOD Central section)
- Contact Marathon Electric for optional nameplate markings on 50 HP and larger

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C FACE KIT
<b>1</b>	1800	460	143T	<b>W501</b>	143THTN9026	*	1000:1	\$661	E9	85.5	1.5	55	10.43	75,76,N	A181
	1800	575	143T	<b>W502</b>	143THTN19033		1000:1	\$661	E9	85.5	1.2	55	10.43	75,76,N	A181
	1200	460	145T	<b>W503</b>	145THTN9076		1000:1	\$832	E9	80.0	1.65	60	11.43	75,76,N,NP	A262
	1200	575	145T	<b>W638</b>	145THTN19079		1000:1	\$832	E9	80.0	1.3	60	11.43	75,76,N,NP	A262
	900	460	182T	W504	182THFS19101		20:1	\$1,461	E9	74.0	2.2	81	15.19	75,NE	A182
<b>1 1/2</b>	3600	460	143T	<b>W505</b>	143THTN9001		1000:1	\$827	E9	86.5	2.0	58	10.43	75,76,N	A181
	3600	575	143T	<b>W506</b>	143THTN9005		1000:1	\$827	E9	86.5	1.6	58	10.43	75,76,N	A181
	1800	460	145T	<b>W507</b>	145THTN9026	*	1000:1	\$716	E9	84.0	2.2	65	11.43	75,76,N,NP	A262
	1800	575	145T	<b>W508</b>	145THTN19045	*	1000:1	\$716	E9	84.0	1.75	65	11.43	75,76,d,N,NP	A262
	1200	460	182T	<b>W509</b>	182THTS9076	*	1000:1	\$1,065	E9	87.5	2.2	100	12.71	75,d,N	A182
<b>2</b>	3600	460	145T	<b>W511</b>	145THTN9001		1000:1	\$867	E9	85.5	2.5	68	11.43	75,76,N	A262
	3600	575	145T	<b>W512</b>	145THTN19002		1000:1	\$867	E9	85.5	2.0	68	11.43	75,76,N	A262
	1800	460	145T	<b>W513</b>	145THTN9027	*	1000:1	\$787	E9	85.5	3.0	68	11.43	75,76,N,NP	A262
	1800	575	145T	<b>W514</b>	145THTN19033		1000:1	\$787	E9	85.5	2.4	68	11.43	75,76,N,NP	A262
	1200	460	184T	<b>W515</b>	184THTS9076		1000:1	\$1,315	E9	88.5	3.0	112	13.71	75,N	A182
<b>3</b>	3600	460	182T	<b>W517</b>	182THTS9001		1000:1	\$1,191	E9	87.5	3.8	105	12.71	75,N	A182
	1800	460	182T	<b>W519</b>	182THTS9026	*	1000:1	\$1,068	E9	90.2	4.0	100	12.71	75,N	A182
	1800	575	182T	<b>W520</b>	182THTS19033		1000:1	\$1,068	E9	90.2	3.2	100	12.71	75,N	A182
	1200	460	213T	<b>W521</b>	213THFS9076	*	20:1	\$1,620	E9	89.5	4.4	176	18.22	75	A183
	900	460	215T	W522	215THFS9101		20:1	\$2,426	E9	86.5	5.0	180	19.72	75,NE	A183

Blue shaded areas are Cast Iron Frames

\* Requires nameplate modification

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

Continued on next page.

# Blue Chip® Severe Duty / Automotive Duty

## NEMA Premium® XRI® IEEE-841

### Totally Enclosed, Rigid Base, Three Phase

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C FACE KIT
<b>5</b>	3600	460	184T	<b>W523</b>	184THFS9001	*	2:1	\$1,323	E9	89.5	5.9	142	16.19	75	A182
	3600	575	184T	<b>W524</b>	184THFS19006		2:1	\$1,323	E9	89.5	4.7	142	16.19	75	A182
	1800	460	184T	<b>W525</b>	184THFS9026	*	20:1	\$1,238	E9	90.2	6.2	130	16.19	75	A182
	1800	575	184T	<b>W526</b>	184THFS9030	*	20:1	\$1,238	E9	90.2	5.0	130	16.19	75	A182
	1200	460	215T	<b>W527</b>	215THFS9076	*	20:1	\$1,988	E9	89.5	6.9	202	19.72	75	A183
	1200	575	215T	<b>W528</b>	215THFS19077		20:1	\$1,988	E9	89.5	5.5	202	19.72	75	A183
	900	460	254T	<b>W529</b>	254THFNA9101		10:1	\$3,162	E9	88.5	7.5	375	23.52	75,NE	A184
<b>7 1/2</b>	3600	460	213T	<b>W530</b>	213THTS9001	*	2:1	\$1,598	E9	91.7	8.9	200	17.18	75,N	A183
	3600	575	213T	<b>W531</b>	213THTS19005		2:1	\$1,598	E9	91.7	7.1	200	17.18	75,N	A183
	1800	460	213T	<b>W532</b>	213THFS9026	*	20:1	\$1,517	E9	91.7	9.6	200	19.73	75	A183
	1800	575	213T	<b>W533</b>	213THFS9030	*	20:1	\$1,517	E9	91.7	7.7	200	19.72	75	A183
	1200	460	254T	<b>W534</b>	254THFNA9076	*	20:1	\$2,287	E9	91.0	9.9	326	23.52	75	A184
	900	460	256T	<b>W536</b>	256THFNA9101		20:1	\$3,921	E9	88.5	11.0	425	25.27	75,NE	A184
	<b>10</b>	3600	460	215T	<b>W537</b>	215THFS9001	*	2:1	\$1,866	E9	91.7	11.9	218	19.72	75
3600		575	215T	<b>W538</b>	215THFS19006		2:1	\$1,866	E9	91.7	9.5	218	19.72	75	A183
1800		460	215T	<b>W539</b>	215THFS9026	*	20:1	\$1,827	E9	91.7	12.5	225	19.72	75	A183
1800		575	215T	<b>W540</b>	215THFS19033	*	20:1	\$1,827	E9	91.7	10.0	225	19.73	75	A183
1200		460	256T	<b>W541</b>	256THFNA9076		20:1	\$2,915	E9	91.0	13.1	405	25.27	75	A184
1200		575	256T	<b>W542</b>	256THFNA19081		20:1	\$2,915	E9	91.0	10.5	405	25.27	75	A184
900		460	284T	<b>W543</b>	284THFNA19102		20:1	\$4,767	E9	90.2	16.0	550	27.88	NE	A186
<b>15</b>	3600	460	254T	<b>W544</b>	254THFNA9001	*	20:1	\$2,314	E9	91.7	17.5	345	23.52		A184
	1800	460	254T	<b>W546</b>	254THFNA9026	*	20:1	\$2,173	E9	92.4	18.8	350	23.52		A184
	1800	575	254T	<b>W547</b>	254THFNA9030	*	20:1	\$2,173	E9	92.4	15.1	350	23.52		A184
	1200	460	284T	<b>W548</b>	284THFNA9076	*	20:1	\$3,870	E9	91.7	20.4	479	27.88		A186
	1200	575	284T	<b>W549</b>	284THFNA16585		20:1	\$3,870	E9	91.7	16.3	479	26.34		A186
	900	460	286T	<b>W550</b>	286THFNA19101		20:1	\$5,980	E9	90.2	22.0	575	27.84	NE	A186
<b>20</b>	3600	460	256T	<b>W551</b>	256THFNA9001	*	2:1	\$2,868	E9	92.4	23.4	375	25.27	75	A184
	1800	460	256T	<b>W553</b>	256THFNA9026	*	20:1	\$2,708	E9	93.0	24.1	425	25.27	75	A184
	1800	575	256T	<b>W554</b>	256THFNA19033	*	20:1	\$2,708	E9	93.0	19.3	425	25.27	75	A184
	1200	460	286T	<b>W555</b>	286THFNA9076	*	20:1	\$4,714	E9	91.7	26.8	550	27.84		A186
	1200	575	286T	<b>W556</b>	286THFNA19077		20:1	\$4,714	E9	91.7	21.4	550	27.84		A186
<b>25</b>	3600	460	284TS	<b>W558</b>	284TSHFNA9001	*	2:1	\$3,533	E9	93.6	28.1	481	24.97		A186
	3600	575	284TS	<b>W559</b>	284TSHFNA9005		2:1	\$3,533	E9	93.6	22.4	481	24.97		A186
	1800	460	284T	<b>W560</b>	284THFNA9026	*	20:1	\$3,223	E9	93.6	31.0	478	26.44		A186
	1800	575	284T	<b>W561</b>	284THFNA19033		20:1	\$3,223	E9	93.6	24.8	478	26.34		A186
	1200	460	324T	<b>W562</b>	324THFS9076		20:1	\$5,715	E9	93.0	32.5	675	28.87		A187
	1200	575	324T	<b>W563</b>	324THFS9080		20:1	\$5,715	E9	93.0	26.0	675	28.87		A187
<b>30</b>	3600	460	286TS	<b>W565</b>	286TSHFNA9001	*	2:1	\$4,126	E9	93.6	33.8	500	26.44		A186
	1800	460	286T	<b>W567</b>	286THFNA9026	*	20:1	\$3,749	E9	94.1	36.5	525	27.84		A186
	1800	575	286T	<b>W568</b>	286THFNA19033		20:1	\$3,749	E9	94.1	29.2	525	27.84		A186
	1200	460	326T	<b>W569</b>	326THFS9076	*	20:1@	\$6,582	E9	93.0	38.5	725	30.37		A187
	1200	575	326T	<b>W643</b>	326THFS19078	*	20:1@	\$6,582	E9	93.0	31.0	725	30.37	d	A187
<b>40</b>	3600	460	324TS	<b>W571</b>	324TSHFS9001	*	2:1	\$5,441	E9	93.6	47.0	656	27.37		A187
	1800	460	324T	<b>W573</b>	324THFS9026	*	20:1@	\$4,978	E9	94.1	47.5	700	28.87		A187
	1800	575	324T	<b>W574</b>	324THFS19033		20:1@	\$4,978	E9	94.1	38.0	700	30.37		A187
	1200	460	364T	<b>W575A</b>	364THFS19087		20:1@	\$8,207	E9	93.6	50.0	950	31.50	NP	A188
	1200	575	364T	<b>W639</b>	364THFS19077		20:1@	\$8,207	E9	93.6	40.0	950	31.50	NP	A188
	900	460	365T	<b>W576</b>	365THFS19101		20:1@	\$11,701	E9	91.7	53.0	975	32.50	NE	A188

SEVERE DUTY

Blue shaded areas are Cast Iron Frames

\* Requires nameplate modification  
 @ Requires larger fan

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

Continued on next page.

# Blue Chip® Severe Duty / Automotive Duty

## NEMA Premium® XRI® IEEE-841

### Totally Enclosed, Rigid Base, Three Phase

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C FACE KIT
<b>50</b>	3600	460	326TS	<b>W577</b>	326TSHFS9001		2:1	\$7,038	E9	93.6	58.0	725	28.87		A187
	3600	575	326TS	<b>W578</b>	326TSHFS9005		2:1	\$7,038	E9	93.6	46.5	725	28.87		A187
	1800	460	326T	<b>W580</b>	326THFS9026	*	20:1@	\$6,115	E9	94.5	60.0	775	30.37		A187
	1800	460	326TS	<b>W579</b>	326TSHFS9036		20:1@	\$6,115	E9	94.5	60.0	775	28.87		A187
	1800	575	326T	<b>W581</b>	326THFS19033		20:1@	\$6,115	E9	94.5	48.0	775	30.37		A187
	1200	460	365T	<b>W582A</b>	365THFS19086	*	20:1@	\$10,066	E9	94.1	61.5	975	32.50		A188
	1200	575	365T	<b>W640</b>	365THFS19077		20:1@	\$10,166	E9	93.6	49.0	975	32.50	NP	A188
	900	460	404T	W583	404THFS9101		20:1@	\$13,166	E9	93.6	66.0	1264	35.62	NE	A190
<b>60</b>	3600	460	364TS	<b>W584</b>	364TSHFS9001	*	2:1	\$8,519	E9	94.5	67.0	925	29.38		A189
	1800	460	364T	<b>W587</b>	364THFS9036	*	20:1@	\$8,070	E9	95.0	69.0	1000	31.50		A188
	1800	460	364TS	<b>W586</b>	364TSHFS9026		20:1@	\$8,070	E9	95.0	69.0	1000	29.38		A189
	1800	575	364T	<b>W588</b>	364THFS19033		20:1@	\$8,070	E9	95.0	55.0	1000	31.50		A188
	1200	460	404T	<b>W589</b>	404THFS9086		20:1@	\$11,043	E9	94.5	72.0	1156	35.62		A190
	900	460	405T	W590	405THFS19101		20:1@	\$14,773	E9	93.6	80.0	1350	37.12	NE	A190
<b>75</b>	3600	460	365TS	<b>W591</b>	365TSHFS9001	*	2:1	\$10,697	E9	94.5	84.0	1002	30.38		A189
	3600	575	365TS	<b>W592</b>	365TSHFS19002		2:1	\$10,697	E9	94.5	67.0	1002	30.38		A189
	1800	460	365T	<b>W594</b>	365THFS9036	*	20:1@	\$10,231	E9	95.4	86.0	1100	32.50		A188
	1800	460	365TS	<b>W593A</b>	365TSHFS19034		20:1@	\$10,231	E9	95.4	86.0	1100	30.38		A189
	1800	575	365T	<b>W595</b>	365THFS9044	*	20:1@	\$10,231	E9	95.4	69.0	1100	32.50		A188
	1200	460	405T	<b>W596</b>	405THFS9086		20:1@	\$12,998	E9	95.0	90.0	1280	37.12		A190
	900	460	444T	W597	444THFS9101		20:1@	\$19,643	E9	93.6	100	1734	41.25	NE	A192
	<b>100</b>	3600	460	405TS	<b>W598</b>	405TSHFS9001	*	2:1	\$14,334	E9	95.0	108	1295	34.12	
1800		460	405T	<b>W600</b>	405THFS9036	*	20:1	\$12,640	E9	95.4	113	1330	37.12		A190
1800		460	405TS	<b>W599</b>	405TSHFS9026		20:1@	\$12,640	E9	95.4	113	1330	34.12		A191
1800		575	405T	<b>W601</b>	405THFS9040	*	20:1@	\$12,640	E9	95.4	90.0	1330	37.12		A190
1200		460	444T	<b>W636</b>	444THFN19081		20:1@	\$19,168	E9	95.0	124	2100	41.25		A192
900		460	445T	W603	445THFN9106		20:1@	\$24,072	E9	94.1	142	2350	43.19	NE	A192
<b>125</b>		3600	460	444TS	<b>W604</b>	444TSHFS9001		2:1@	\$18,740	E9	95.4	136	1725	37.50	
	1800	460	444T	<b>W606</b>	444THFS9036	*	20:1@	\$16,640	E9	95.4	141	1725	41.25		A192
	1800	575	444T	<b>W607</b>	444THFS9040	*	20:1@	\$16,640	E9	95.4	113	1725	41.25		A192
	1200	460	445T	<b>W608</b>	445THFN9086		20:1@	\$21,820	E9	95.0	155	2000	43.19		A192
	900	460	445T	W609	445THFN9102		20:1@	\$24,724	E9	94.5	172	2515	43.19	NE	A194
<b>150</b>	3600	460	445TS	<b>W610</b>	445TSHFN9001		2:1	\$22,511	E9	95.8	165	2187	39.37		A195
	1800	575	445TS	<b>W611</b>	445TSHFN9026	*	20:1@	\$19,345	E9	95.8	172	2070	39.37		A194
	1800	460	445T	<b>W612</b>	445THFN9036	*	20:1@	\$19,345	E9	95.8	172	2070	43.19		A194
	1800	575	445T	<b>W641</b>	445THFN19033		20:1@	\$19,345	E9	95.8	138	2070	43.19		A194
	1800	575	445T	<b>W613</b>	445THFN9037		20:1@	\$19,345	E9	95.8	138	2070	43.19		A194
	1200	460	445T	<b>W614</b>	445THFN9087		20:1@	\$24,415	E9	95.8	181	2500	43.19	H,RB	A194
	900	460	L447/9T	W615	449THFS9101		20:1@	\$31,445	E9	95.4	205	3150	51.88	NE	
<b>200</b>	3600	460	445TS	<b>W616</b>	445TSHFN9005		2:1@	\$28,477	E9	95.8	223	2300	39.37	H,SL	A195
	1800	460	445T	<b>W618</b>	445THFN9038		20:1@	\$23,528	E9	96.2	226	2437	43.19	RB	A194
	1800	460	445TS	<b>W617</b>	445TSHFN9028		20:1@	\$23,528	E9	96.2	226	2700	39.37		A195
	1800	460	447/9T	<b>W619</b>	449THFS9030		20:1@	\$27,056	E9	96.5	225	2700	51.69		
	1800	575	445T	<b>W642</b>	445THFN19034	*	20:1@	\$27,056	E9	96.2	181	2437	43.19		A194
	1200	460	447/9T	<b>W621</b>	449THFS19092		20:1@	\$29,886	E9	95.8	225	2927	51.84		
	1200	460	447/9T	<b>W622</b>	449THFS9088		20:1@	\$29,886	E9	95.8	240	2927	51.69	RB	
	1200	575	447/449T	<b>W630</b>	449THFS19079		20:1@	\$29,886	E9	95.8	192	2927	51.69	RB	
<b>250</b>	3600	460	447/9TS	<b>W624</b>	449TSHFS9003		2:1	\$35,914	E9	96.5	2700	2700	47.94		N/A
	1800	460	447/9T	<b>W626</b>	449THFS9028		20:1@	\$33,946	E9	96.5	2830	2830	51.69		N/A
<b>300</b>	1800	460	447/9T	<b>W632</b>	449THFS9027		20:1@	\$34,625	E9	96.5	3211	3211	51.84		
<b>350</b>	3600	460	447/9TS	<b>W634</b>	449TSHFS9001		2:1	\$53,384	E9	96.2	3064	3064	47.94	SL	
	1800	460	447/9T	<b>W635</b>	449THFS9036		2:1	\$44,015	E9	96.2	3350	3350	51.84	RB,SL	

SEVERE DUTY

Blue shaded areas are Cast Iron Frames

\* Requires nameplate modification  
 @ Requires larger fan

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

Continued on next page.

# Hazardous Duty™ Division 1 Explosion Proof Class I Only, Groups C (as noted), D

## Blue Chip®, EAct Efficiency, Three Phase



### Features:

- 10:1 Variable torque, 2:1 Constant torque
- 1.15 Service Factor
- Class F insulation
- Meets temperature code T2A
- All Cast iron construction
- Shaft slinger
- External surface treated with epoxy paint
- Nameplated 60/50 Hz, 190/380 Volts, at next lower HP
- See modification section for addition of C-Face kits (254T-445T)
- Ball bearings (except as noted)
- UL Listed File No. E12044
- CSA Certified File No. LR47504
- Two year warranty



**IP54**



### Rigid Base

HP	RPM	VOLTS	FRAME	GROUP C	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>3</b>	1200	230/460	213T	N	U940	213TTGS1076	★	<b>\$1,092</b>	E7	87.5	9.0/4.5	236	19.66	d,25
<b>5</b>	3600	230/460	184T	N	U941	184TTGS1001	★	<b>\$958</b>	E7	87.5	12.4/6.2	149	17.44	d,25
	1800	230/460	184T	N	U942	184TTGS1026	★	<b>\$848</b>	E7	86.5	13.0/6.5	143	17.44	d,25
<b>7 1/2</b>	3600	230/460	213T	N	U944	213TTGS1001	★	<b>\$1,227</b>	E7	88.5	19.0/9.5	243	20.91	d,25
<b>15</b>	1800	230/460	254T	Y	U951	254TTGN1026	★	<b>\$1,814</b>	E7	91.0	39.0/19.5	361	23.52	d
<b>20</b>	1800	230/460	256T	Y	U954	256TTGN1026	★	<b>\$2,201</b>	E7	91.0	50.0/25.0	403	25.27	d
<b>25</b>	1800	230/460	284T	Y	U957	284TTGP1026	★	<b>\$2,753</b>	E7	92.4	62.0/31.0	447	26.26	d
<b>60</b>	1800	230/460	364T	Y	U969	364TTGS1036	★	<b>\$7,839</b>	E7	93.6	144/72.0	1045	31.50	d
<b>75</b>	1800	230/460	365T	Y	U972	365TTGS1036	★	<b>\$9,728</b>	E7	94.1	178/89.0	1131	31.50	d
	1200	230/460	405T	Y	U973	405TTGS1086	★	<b>\$11,865</b>	E7	93.6	185/92.5	1384	37.12	d

Blue shaded areas are Cast Iron Frames

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

EXPLOSION PROOF



# Hazardous Duty™ Division 1 Explosion Proof Class I and II, Groups D, F & G

## Blue Chip® Severe Duty, NEMA Premium Efficiency, Three Phase

### Features:

- 10:1 Variable torque, see Inverter Duty column for constant torque
- 1.15 Service Factor
- Normally closed thermostats (must be connected to control circuit)
- Meets temperature code T3B
- All cast iron construction
- External surface treated with epoxy paint
- Nameplated 60/50 hertz, 190/380 Volts, at next lower horsepower as noted
- UL Listed File No. E12044
- CSA Certified File No. LR47504
- Two year warranty

**IP54**

### C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1</b>	1800	208-230/460	143TC	<b>C361A</b>	143TTGN6551	*	10:1	<b>\$886</b>	E7	85.5	3.0-3.0/1.5	72	15.23	68,80
<b>1 1/2</b>	1800	208-230/460	145TC	C362	145TTGN4032	*	10:1	<b>\$806</b>	E7	84.0	4.6-4.4/2.2	82	15.23	d,68,80
	1800	208-230/460	145TC	<b>C362A</b>	145TTGN6536	*	10:1	<b>\$938</b>	E7	86.5	4.7-4.6/2.3	88	15.23	68,80
<b>2</b>	1800	208-230/460	145TC	<b>C363A</b>	145TTGN6549	*	10:1	<b>\$986</b>	E7	86.5	6.2-6.0/3.0	90	15.23	68,80
<b>3</b>	1800	208-230/460	182TC	<b>C364A</b>	182TTGN6569	*	10:1	<b>\$1,146</b>	E7	89.5	8.4-8.0/4.0	154	16.62	68
	1800	575	182TC	<b>C368A</b>	182TTGN6536		10:1	<b>\$1,146</b>	E7	89.5	3.2	158	16.62	
<b>5</b>	1800	208-230/460	184TC	<b>C365A</b>	184TTGN6575	*	10:1	<b>\$1,249</b>	E7	89.5	13.8-12.4/6.2	168	18.62	68
	1800	575	184TC	<b>C369A</b>	184TTGN6537		10:1	<b>\$1,249</b>	E7	89.5	5.0	167	18.62	
<b>7 1/2</b>	1800	208-230/460	213TC	<b>C366A</b>	213TTGN6528	*	10:1	<b>\$1,698</b>	E7	91.7	20.8-19.2/9.6	255	23.45	68
	1800	575	213TC	<b>C370A</b>	213TTGN6536		10:1	<b>\$1,698</b>	E7	91.7	7.7	275	23.45	
<b>10</b>	1800	208-230/460	215TC	<b>C367A</b>	215TTGN6528	*	2:1	<b>\$1,953</b>	E7	91.7	27.0-25.0/12.5	228	23.45	68
	1800	575	215TC	<b>C371A</b>	---		2:1	<b>\$1,953</b>	E7	91.7	10.4	201	23.45	

Blue shaded areas are Cast Iron Frames

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

EXPLOSION PROOF

# Hazardous Duty™ Division 1 Explosion Proof Class I and II, Groups C, D, E (as noted), F & G

## Steel Frame, Standard and EAct Efficiencies, Three Phase



### Features:

- 1.0 Service Factor (except as noted)
- Meets temperature code T3B
- Explosion proof conduit box included, shipped loose
- UL Listed File No. E12044
- CSA Certified File No. LR47504
- K717 & K718 are rated for Class I Group D, Class II Groups F&G only
- Automatic Overload (except as noted)

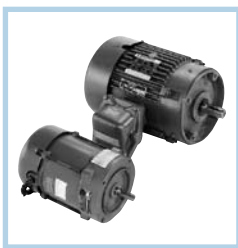
### Rigid Base

HP	RPM	VOLTS	FRAME	GROUP E	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/4</b>	1800	230/460	48	N	K717	5K32GNB249	★	\$578	F1	62.5	1.2/0.6	19	9.68	
	1800	208-230/460	56	N	G646	56T17E5308	★	\$545	F1	71.0	1.1-1.1/55	25	11.97	N
	1800	575	56	N	G664	56T17E5314	★	\$545	F1	71.0	0.43	25	11.97	N
<b>1/3</b>	1800	230/460	56	N	K718	5K33NNB234	★	\$580	F1	74.0	1.2/0.6	23	11.12	d
	1800	208-230/460	56	N	G647	56T17E5309	★	\$580	F1	74.0	1.3-1.2/60	25	11.97	N
	1800	575	56	N	G665	56T17E5315	★	\$580	F1	74.0	0.5	25	11.97	N
	1200	230/460	56	N	K2101	5K49FN6381	★	\$783	F1	62.0	2.2/1.1	29	13.44	
<b>1/2</b>	3600	208-230/460	56	N	G648	56T34G5303	★	\$533	F1	66.5	2.1-2.4/1.2	30	13.44	
	1800	208-230/460	56	N	K2103	5K49JN4560	★	\$613	F1	68.0	2.2-2.4/1.2	29	13.94	d
	1800	208-230/460	56	N	G649	56T17G5312	★	\$613	F1	68.0	2.3-2.4/1.2	28	13.94	
	1800	200	56	N	K2102	5K49JN4582	★	\$701	F1	68.0	2.75	29	13.94	
	1800	575	56	N	G666	56T17G5321	★	\$613	F1	68.0	1.0	28	13.94	
	1200	230/460	56	N	K2104	5K49HN6385	★	\$825	F1	68.0	2.7/1.35	34	13.44	
<b>3/4</b>	3600	208-230/460	56	N	G660	56T34G5304	★	\$585	F1	74.0	3.0-3.2/1.6	30	13.44	
	1800	208-230/460	56	N	K2106	5K49JN4561	★	\$647	F1	75.5	2.9-3.0/1.5	31	13.94	d
	1800	208-230/460	56	N	G661	56T17G5313	★	\$647	F1	75.5	2.9-3.0/1.5	30	13.94	
	1800	200	56	N	K2105	5K49JN4574	★	\$747	F1	75.5	3.45	31	13.94	
	1800	575	56	N	G667	56T17G5322	★	\$647	F1	75.5	1.2	29	13.94	
	1200	208-230/460	143T	N	K2107	5K49MN8349	★	\$883	F1	74.0	3.2-3.2/1.6	42	14.00	
	1200	208-230/460	56	N	K2116	5K49MN6382	★	\$878	F1	74.0	3.2-3.2/1.6	42	13.94	
<b>1</b>	3600	208-230/460	56	N	K2108	5K49HN2507	★	\$621	F1	74.0	3.0-3.2/1.6	30	13.44	d
	3600	208-230/460	56	N	G662	56T34G5305	★	\$621	F1	74.0	3.9-3.6/1.8	28	13.44	
	1800	208-230/460	56	N	G663	56T17G5314	★	\$653	F1	77.0	3.5-3.6/1.8	31	13.94	
	1800	208-230/460	143T	N	K2201	5KE49PN4579	★	\$869	E7	82.5	3.2-3.0/1.5	45	14.50	d
	1800	208-230/460	143T	Y	<b>I502</b>	143TTGR16026	★	\$1,016	E7	85.5	3.3-3.3/1.65	48	16.00	TS
	1800	575	56	N	G668	56T17G5323	★	\$653	F1	77.0	1.45	31	13.94	
	1800	575	143T	Y	<b>I503</b>	143TTGR16030	★	\$1,016	E7	85.5	1.3	48	16.00	TS
	1200	230/460	56H	N	K2110	5K49TN6383	★	\$921	F1	77.0	3.4/1.7	47	15.50	
	1200	208-230/460	145T	N	K2202	5KE49TN8356	★	\$1,052	E7	80.0	3.6-3.4/1.7	49	15.50	d,TS
	1200	208-230/460	145T	Y	<b>I504</b>	145TTGR16076	★	\$1,230	E7	82.5	3.8-3.8/1.9	58	16.50	TS
	1200	575	145T	Y	<b>I505</b>	145TTGR16080	★	\$1,230	E7	82.5	1.5	58	16.50	TS
	<b>1 1/2</b>	3600	230/460	143T	N	K2203	5KE49PN8357	★	\$805	E7	82.5	4.0/2.0	38	14.50
3600		208-230/460	143T	Y	<b>I506</b>	143TTGR16001	★	\$941	E7	84.0	4.0/2.0	38	14.50	TS
3600		575	143T	Y	<b>I507</b>	143TTGR16005	★	\$941	E7	84.0	1.6	38	14.50	TS
1800		208-230/460	56H	N	K2111	5K49NN4580	★	\$823	F1	80.0	4.8-4.8/2.4	42	14.08	
1800		208-230/460	145T	Y	<b>I508</b>	145TTGR16038	★	\$963	E7	86.5	4.7-4.6/2.3	42	16.00	TS
1800		575	145T	Y	<b>I509</b>	145TTGR16030	★	\$963	E7	86.5	1.85	42	16.00	TS
<b>2</b>	3600	208-230/460	145T	N	K2205	5KE49SN8355	★	\$1,207	E7	84.0	5.6-5.2/2.6	47	15.00	d,TS,18
	3600	208-230/460	145T	Y	<b>I512</b>	145TTGR16002	★	\$1,411	E7	85.5	5.6-5.0/2.5	47	16.50	TS
	3600	575	145T	Y	<b>I513</b>	145TTGR16004	★	\$1,411	E7	85.5	2.0	47	16.50	TS
	1800	208-230/460	145T	Y	<b>I514</b>	145TTGR16040	★	\$1,176	E7	86.5	6.0-5.6/2.8	55	16.50	TS
	1800	575	145T	Y	<b>I515</b>	145TTGR16039	★	\$1,176	E7	86.5	2.4	55	16.50	TS

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

# Hazardous Duty™ Division 1 Explosion Proof Class I and II, Groups C (as noted), D, F & G

Severe Duty, Standard and NEMA Premium Efficiencies, Three Phase



## Features:

Frame Construction  
Thermal Protection  
Class/Group

Temperature Code  
Conduit Box  
Service Factor  
UL File  
CSA File

## 56 Frame

Rolled Steel  
Auto Overload  
Class I, Groups C & D,  
Class II, Groups F & G  
T3B  
Shipped Loose  
1.0 (unless otherwise noted)  
E12044  
LR47504

## 143-256TC

Cast Iron "Blue Chip"  
T-Stats  
Class I, Group D  
Class II, Groups F & G  
T3B  
Installed  
1.0 (unless otherwise noted)  
E12044  
LR47504

## C-Face Footless

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/4</b>	1800	208-230/460	56C	G827	56T17E5310	*	-----	\$512	F1	71.0	25	1.1-1.1/0.55	11.97	CD,N
	1800	575	56C	G842	56T17E5312	*	-----	\$512	F1	71.0	25	0.43	11.97	CD,N
<b>1/3</b>	1800	208-230/460	56C	G828	56T17E5311	*	-----	\$541	F1	74.5	25	1.3-1.2/0.6	11.97	CD,N
	1800	575	56C	G843	56T17E5313	*	-----	\$541	F1	74.5	25	0.50	11.97	CD,N
<b>1/2</b>	1800	208-230/460	56C	G829	56T17G5315	*	-----	\$570	F1	68.0	28	2.3-2.4/1.2	13.94	CD
	1800	208-230/460	56C	K2112	5K49JN4576	*	-----	\$570	F1	68.0	29	2.3-2.4/1.2	13.94	d,CD
	1800	575	56C	G844	56T17G5318	*	-----	\$570	F1	68.0	32	1.0	13.94	CD
<b>3/4</b>	1800	208-230/460	56C	G840	56T17G5316	*	-----	\$601	F1	75.5	29	2.9-3.0/1.5	13.94	CD
	1800	208-230/460	56C	K2113	5K49JN4577	*	-----	\$601	F1	75.5	31	2.6-3/1.5	13.94	d,CD
	1800	575	56C	G845	56T17G5319	*	-----	\$601	F1	75.5	29	1.2	13.94	CD
<b>1</b>	1800	208-230/460	56C	G841	56T17G5317	*	-----	\$608	F1	77.0	30	3.5-3.6/1.8	13.94	CD
	1800	208-230/460	56C	K2114	5K49LN4578	*	-----	\$608	F1	77.0	38	3.5-3.6/1.8	13.94	d,CD
	1800	575	56C	G846	56T17G5320	*	-----	\$608	F1	77.0	32	1.45	13.94	CD
	1800	208-230/460	143TC	<b>C320A</b>	143TTGN4062	*	10:1	\$748	E7	82.5	55	3.4-3.6/1.8	15.18	18,68
<b>1 1/2</b>	3600	208-230/460	143TC	<b>C301A</b>	143TTGN4020	*	10:1	\$777	E7	82.5	54	4.6-4.4/2.2	15.18	18,68
	1800	208-230/460	56C	K2115	5K49NN4581	*	-----	\$868	F1	80.0	38	3.6-4.8/2.4	14.44	18,CD
	1800	208-230/460	145TC	<b>C321A</b>	145TTGN4337	*	10:1	\$791	E7	84.0	60	4.6-4.4/2.2	15.18	18,68
<b>2</b>	3600	208-230/460	145TC	<b>C302A</b>	145TTGN4022	*	2:1	\$844	E7	84.0	59	5.6-5.4/2.7	13.98	18,68
	1800	208-230/460	145TC	C322	145TTGN7338	*	10:1	\$779	E7	81.5	65	6.2-6.2/3.1	13.98	d,18,68
	1800	208-230/460	145TC	<b>C322A</b>	145TTGN4338	*	10:1	\$834	E7	84.0	69	6.0-5.6/2.8	15.18	18,68
<b>3</b>	3600	230/460	182TC	C303	182TTGS7315	*	10:1	\$868	E7	82.5	119	7.8/3.9	15.62	d,68
	3600	208-230/460	182TC	<b>C303A</b>	182TTGN4315	*	10:1	\$928	E7	85.5	119	8.4-7.4/3.7	18.62	68
	1800	230/460	182TC	<b>C323A</b>	182TTGN4068	*	2:1	\$922	E7	87.5	112	8.8-8.0/4.0	18.62	68
<b>5</b>	3600	208-230/460	184TC	<b>C304A</b>	184TTGN4313	*	2:1	\$1,165	E7	87.5	133	12.4-11.8/5.9	18.62	68
	1800	208-230/460	184TC	<b>C324A</b>	184TTGN4072	*	2:1	\$1,078	E7	87.5	132	14.7-13/6.5	18.62	68
<b>7 1/2</b>	3600	230/460	213TC	<b>C305</b>	213TTGS14015	*	2:1	\$1,543	E7	88.5	241	19.0/9.5	22.25	68
	1800	230/460	213TC	C325	213TTGS7067	*	2:1	\$1,378	E7	87.5	188	20.0/10.0	19.50	d,68
	1800	208-230/460	213TC	<b>C325A</b>	213TTGN4067	*	2:1	\$1,474	E7	89.5	194	22.0-20.0/10.0	23.45	68
<b>10</b>	3600	230/460	215TC	<b>C306</b>	215TTGS14020	*	2:1	\$1,703	E7	90.2	271	24.0/12.0	22.25	68
	1800	208-230/460	215TC	<b>C326A</b>	215TTGN4065	*	2:1	\$1,688	E7	89.5	216	27.2-25.0/12.5	23.45	68
<b>15</b>	3600	230/460	254TC	C307	254TTGP7021	*	2:1	\$2,066	E7	85.5	301	38.8/19.4	24.19	d,68
	3600	230/460	254TC	<b>C307A</b>	254TTGP14013	*	2:1	\$2,210	E7	90.2	331	35/17.5	24.19	68
	1800	230/460	254TC	<b>C327A</b>	254TTGN14042	*	-----	\$2,176	E7	91.0	370	39/19.5	25.77	68
<b>20</b>	3600	230/460	256TC	<b>C308A</b>	256TTGN14011	*	2:1	\$2,654	E7	90.2	340	47.0/23.5	25.77	68
	1800	208-230/460	256TC	<b>C328A</b>	256TTGN14044	*	2:1	\$2,721	E7	91.0	315	50.0/25.0	25.94	68

Blue shaded areas are Cast Iron Frames

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

# Hazardous Duty™ Division 1 Explosion Proof Class I and II, Groups C (as noted), D, F & G

**Blue Chip® Severe Duty, EAct Efficiency, Three Phase**



**Features:**



- 1.15 Service Factor on sinewave
- 10:1 Variable torque, constant torque speed range as indicated @1.0 SF
- Class F insulation
- CR<sup>200</sup> Corona Resistant, 200°C rated magnet wire
- Ball Bearings (except as noted)
- All cast iron construction
- Normally closed thermostats (must be connected to control circuit)
- Meets temperature code T3B
- Shaft slinger
- External surface treated with epoxy
- Nameplated 60/50 hertz, 190/380 volts, at next lower horsepower (575 volt excluded)
- See Modification section for addition of C-Face Kits (254T-445T)
- Meets IEEE45 USCG Marine Duty, IP 54 construction
- Contact Marathon Electric for F2 mounting
- UL Listed File No. E12044
- CSA Certified File No. LR47504,
- Two year warranty

**Rigid Base**

HP	RPM	VOLTS	FRAME	GROUP C	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1</b>	1800	208-230/460	143T	Y	U986	143TTGN4032		10:1	<b>\$833</b>	E7	82.5	3.0-3.0/1.5	62	13.48	25,80,91
	1800	575	143T	N	U020	143TTGN4030	★	10:1	<b>\$691</b>	E7	82.5	1.2	62	13.48	d,25,80
<b>1 1/2</b>	3600	208-230/460	143T	N	U058	143TTGN4001	★	10:1	<b>\$741</b>	E7	82.5	4.4-4.0/2.0	64	13.48	d,25,80,91
	1800	575	145T	N	U021	145TTGN4035	★	10:1	<b>\$737</b>	E7	84.0	1.8	74	14.73	d,25,80
	1200	208-230/460	182T	N	U040	182TTGS4076	★	10:1	<b>\$869</b>	E7	85.5	5.0-5.0/2.5	134	17.44	d,25,91
<b>2</b>	3600	208-230/460	145T	N	U059	145TTGN4001	★	10:1	<b>\$869</b>	E7	84.0	5.6-5.2/2.6	64	13.48	d,25,80,91
	1800	575	145T	N	U022	145TTGN4040	★	10:1	<b>\$780</b>	E7	85.5	2.4	78	14.73	d,25,80
<b>3</b>	3600	208-230/460	182T	N	U060	182TTGS4001	★	10:1	<b>\$899</b>	E7	85.5	8.4-7.4/3.7	128	16.19	d,25,91
	1800	575	182T	N	<b>U023</b>	182TTGS4030	★	10:1	<b>\$890</b>	E7	87.5	3.4	128	16.19	d,25
	1200	230/460	213T	N	U042	213TTGS4076	★	10:1	<b>\$1,259</b>	E7	87.5	9.0/4.5	222	19.66	d,25
<b>5</b>	1800	575	184T	N	<b>U024</b>	184TTGS4030	★	10:1	<b>\$976</b>	E7	86.5	5.2	142	17.44	d,25
<b>7 1/2</b>	3600	208-230/460	213T	N	U062	213TTGS4001	★	10:1	<b>\$1,392</b>	E7	88.5	20.0-19.0/9.5	233	20.91	d,25,91
	1800	575	213T	N	U025	213TTGS4030	★	10:1	<b>\$1,321</b>	E7	89.5	8.0	221	19.66	d,25
<b>10</b>	1800	575	215T	N	<b>U026</b>	215TTGS4030	★	2:1	<b>\$1,540</b>	E7	89.5	10.0	225	20.91	d,25
<b>15</b>	1800	575	254T	Y	<b>U027</b>	254TTGN4030	★	10:1	<b>\$1,974</b>	E7	91.0	15.6	365	23.52	d
	1200	208-230/460	284T	Y	U046	284TTGN4076	★	10:1	<b>\$3,526</b>	E7	90.2	43.0-40.0/20.0	532	26.34	d,25
<b>20</b>	1800	575	256T	Y	U028	256TTGN4030	★	2:1	<b>\$2,362</b>	E7	91.0	20.0	379	25.27	d
	1200	208-230/460	286T	Y	U047	286TTGN4076	★	10:1	<b>\$4,112</b>	E7	90.2	57.0-54.0/27.0	550	27.84	d
<b>25</b>	3600	230/460	284TS	Y	U066	284TSTGP4001	★	10:1	<b>\$3,346</b>	E7	91.0	60.0/30.0	441	24.89	d
	1800	575	284T	Y	<b>U029</b>	284TTGP4030		2:1	<b>\$3,005</b>	E7	92.4	24.8	325	26.26	
	1200	230/460	324T	Y	U048	324TTGP4076	★	10:1	<b>\$5,195</b>	E7	91.7	67.0/33.5	619	28.97	d
<b>30</b>	1800	575	286T	Y	<b>U030</b>	286TTGP4030		2:1	<b>\$3,484</b>	E7	92.4	29.6	496	27.76	87
<b>40</b>	1800	575	324T	Y	<b>U031</b>	324TTGP4030		2:1	<b>\$4,639</b>	E7	93.0	40.0	520	28.97	17,87
<b>50</b>	3600	230/460	326TS	Y	U069	326TSTGP4001	★	2:1	<b>\$6,275</b>	E7	92.4	115/57.5	622	28.97	d
	1800	575	326T	Y	<b>U032</b>	326TTGP4030		2:1	<b>\$5,647</b>	E7	93.0	49.0	520	30.47	17,87
<b>60</b>	1800	575	364T	Y	<b>U033</b>	364TTGS4040		2:1	<b>\$8,204</b>	E7	93.6	57.5	1055	31.5	87
	1200	230/460	404T	Y	U089	404TTGS4087	★	2:1	<b>\$10,690</b>	E7	93.6	149/74.5	1289	35.62	d
<b>75</b>	3600	230/460	365TS	Y	U071	365TSTGS4001	★	2:1	<b>\$10,364</b>	E7	93.0	172/86.0	1057	30.38	d
	1800	575	365T	Y	<b>U034</b>	365TTGS4040		2:1	<b>\$10,094</b>	E7	94.1	71.0	1094	32.5	87
	1200	230/460	405T	Y	U088	405TTGS4087	★	2:1	<b>\$12,432</b>	E7	93.6	185/92.5	1398	37.12	d
<b>100</b>	1800	230/460	405T	Y	U097	405TTGS4046	★	2:1	<b>\$12,412</b>	E7	94.5	228/114	1355	37.12	d
	1800	575	405T	Y	<b>U035</b>	405TTGS4040		2:1	<b>\$12,412</b>	E7	94.5	91.0	1365	37.12	87
	1200	230/460	444T	Y	U095	444TTGS4087	★	2:1	<b>\$17,280</b>	E7	94.1	238/119	18292	41.25	d
<b>125</b>	1800	575	444T	Y	<b>U036</b>	444TTGS4042		2:1	<b>\$16,030</b>	E7	94.5	113.0	1808	41.25	87
<b>150</b>	1800	460	445T	Y	U018	445TTGN4037	★	10:1	<b>\$18,950</b>	E7	95.0	172	2500	43.19	d
	1800	575	445T	Y	<b>U037</b>	445TTGN4030		10:1	<b>\$19,798</b>	E7	95.0	138.0	2236	43.19	
<b>200</b>	1800	575	445T	Y	<b>U038</b>	445TTGN4045		2:1	<b>\$22,400</b>	E7	95.0	180.0	2384	43.19	RB,87

Blue shaded areas are Cast Iron Frames

# Hazardous Duty™ Division 1 Explosion Proof, NEMA Premium® XRI®, Class I and II, Groups C, D, F & G Blue Chip® Severe Duty, Three Phase



## Features:

### ⊕ Meets NEMA Premium® efficiencies

- 10:1 Variable torque, see Inverter Duty column for constant torque
- MAX GUARD® Class F insulation
- Blue Chip® quality, 100% cast iron construction for rigidity and reduced vibration
- Internal and external surfaces treated with epoxy paint
- 1.15 Service Factor on sinewave or 1.0 Service Factor on IGBT power
- Precision balanced to .08"/sec.
- Extended grease tubes
- Normally closed thermostats (must be connected to control circuit)
- Meets temperature code T3B
- Shaft slinger
- Nameplated 60/50 Hz, 190/380 Volts, at next lower HP, as noted
- See MOD CENTRAL for:
  - C-Face Kit Modifications
  - F2 mounting
- Ball Bearings (except as noted)
- UL Listed File No. E12044
- CSA Certified File No. LR47504
- Three year warranty



EXPLOSION PROOF

## Rigid Base

HP	RPM	VOLTS	FRAME	GROUP C	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>3/4</b>	1200	208-230/460	143T	N	H350	143TTGN7076	★	10:1	<b>\$721</b>	E7	74.0	3.1-3.2/1.6	55	12.48	25,68,80,91
<b>1</b>	1800	208-230/460	143T	N	<b>U001A</b>	143TTGN6526	★	10:1	<b>\$804</b>	E7	85.5	3.0-3.0/1.5	68	13.48	25,68,80,91
	1800	575	143T	N	<b>U020A</b>	143TTGN6530	★	10:1	<b>\$804</b>	E7	85.5	1.3	68	14.73	25,80
	1800	208-230/460	143T	Y	<b>U986A</b>	143TTGN6532		10:1	<b>\$969</b>	E7	85.5	3.0-3.0/1.5	68	13.48	25,80,91
	1200	208-230/460	145T	N	<b>U039A</b>	145TTGN6576	★	10:1	<b>\$969</b>	E7	82.5	4.0-3.6/1.8	76	14.73	25,68,80,91
	<b>1 1/2</b>	3600	208-230/460	143T	N	<b>U058A</b>	143TTGN6501	★	10:1	<b>\$861</b>	E7	84.0	4.4-4.0/2.0	70	13.48
<b>2</b>	1800	208-230/460	143T	N	<b>U002A</b>	145TTGN6526	★	10:1	<b>\$858</b>	E7	86.5	4.7-4.6/2.3	83	14.73	25,68,80,91
	1800	575	145T	N	<b>U021A</b>	145TTGN6537	★	10:1	<b>\$858</b>	E7	86.5	1.8	85	14.73	25,80
	1800	208-230/460	145T	Y	<b>U987A</b>	145TTGN16532		10:1	<b>\$1,031</b>	E7	86.5	4.7-4.6/2.3	81	14.73	25,80,91
	1200	208-230/460	182T	N	<b>U040A</b>	182TTGN6576	★	10:1	<b>\$1,010</b>	E7	87.5	4.8-4.4/2.2	147	15.87	25,68,91
	<b>3</b>	3600	208-230/460	145T	N	<b>U059A</b>	145TTGN6501	★	10:1	<b>\$1,010</b>	E7	85.5	5.6-5.2/2.6	70	13.48
1800		208-230/460	145T	N	<b>U003A</b>	145TTGN6527	★	10:1	<b>\$908</b>	E7	86.5	6.2-6.0/3.0	86	14.73	25,68,80,91
1800		575	145T	N	<b>U022A</b>	145TTGN6540	★	10:1	<b>\$908</b>	E7	86.5	2.4	86	14.73	25,80
1800		208-230/460	145T	Y	<b>U988A</b>	145TTGN6550		10:1	<b>\$1,093</b>	E7	86.5	6.2-6.0/3.0	83	14.73	25,80,91
1200		208-230/460	184T	N	<b>U041A</b>	184TTGN6576	★	10:1	<b>\$1,143</b>	E7	88.5	6.4-6.0/3.0	154	17.87	25,68,91
<b>4</b>	3600	208-230/460	182T	N	<b>U060A</b>	182TTGN6501	★	10:1	<b>\$1,045</b>	E7	86.5	8.4-7.6/3.8	141	15.87	25,68,91
	1800	208-230/460	182T	N	<b>U004A</b>	182TTGN6526	★	10:1	<b>\$1,035</b>	E7	89.5	8.4-8.0/4.0	143	15.87	25,68,91
	1800	575	182T	N	<b>U023A</b>	182TTGN6530	★	10:1	<b>\$1,035</b>	E7	89.5	3.2	141	15.87	25
	1800	208-230/460	182T	Y	<b>U989A</b>	182TTGN6541		10:1	<b>\$1,245</b>	E7	89.5	8.4-8.0/4.0	161	15.87	25,68,91
	1200	208-230/460	213T	N	<b>U042A</b>	213TTGN6576	★	10:1	<b>\$1,464</b>	E7	89.5	8.8/4.4	244	22.63	25,68
<b>5</b>	3600	208-230/460	184T	N	<b>U061A</b>	184TTGN6501	★	10:1	<b>\$1,270</b>	E7	88.5	13.0-12.0/6.0	161	17.87	25,68,91
	1800	208-230/460	184T	N	<b>U005A</b>	184TTGN6526	★	10:1	<b>\$1,135</b>	E7	89.5	13.8-12.4/6.2	155	17.87	25,68,91
	1800	575	184T	N	<b>U024A</b>	184TTGN6530	★	10:1	<b>\$1,135</b>	E7	89.5	5.0	156	17.87	25
	1800	208-230/460	184T	Y	<b>U990A</b>	184TTGN6544		10:1	<b>\$1,366</b>	E7	89.5	13.8-12.4/6.2	150	17.87	25,68,91
	1200	230/460	215T	N	<b>U043A</b>	215TTGN6576	★	10:1	<b>\$1,876</b>	E7	89.5	13.8/6.9	206	22.63	25,68

Blue shaded areas are Cast Iron Frames

⊗ Requires larger fan

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

Continued on next page.



# Hazardous Duty™ Division 1 Explosion Proof, NEMA Premium® XRI®, Class I and II, Groups C, D, F & G

## Blue Chip® Severe Duty, Three Phase

### Rigid Base

HP	RPM	VOLTS	FRAME	GROUP C	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
7 1/2	3600	208-230/460	213T	N	<b>U062A</b>	213TTGN6501	*	10:1	<b>\$1,619</b>	E7	89.5	20.0-19.0/9.5	256	22.63	25,68,91
	1800	208-230/460	213T	N	<b>U006A</b>	213TTGN6526	*	10:1	<b>\$1,536</b>	E7	91.7	20.8-19.2/9.6	248	22.63	25,68,91
	1800	575	213T	N	<b>U025A</b>	213TTGN16537	*	10:1	<b>\$1,536</b>	E7	91.7	7.7	243	22.63	25
	1800	208-230/460	213T	Y	<b>U991A</b>	213TTGN6540		10:1	<b>\$1,849</b>	E7	91.7	20.8-19.2/9.6	251	22.63	25,68,91
	1200	230/460	254T	Y	<b>E500</b>	254TTGN6576	*	10:1	<b>\$2,246</b>	E7	91.0	19.8/9.9	345	23.52	68
10	3600	230/460	215T	Y	<b>U063A</b>	215TTGN6501	*	10:1	<b>\$1,838</b>	E7	90.2	23.6/11.8	265	22.63	25,68
	1800	208-230/460	215T	N	<b>U007A</b>	215TTGN6526	*	10:1	<b>\$1,791</b>	E7	91.7	27.0-25.0/12.5	263	22.63	25,68,91
	1800	575	215T	N	<b>U026A</b>	215TTGN16532	*	10:1	<b>\$1,791</b>	E7	91.7	10.0	248	22.63	25
	1800	208-230/460	215T	Y	<b>U992A</b>	215TTGN6539		10:1	<b>\$2,156</b>	E7	91.7	25.0/12.5	253	22.63	25,68
	1200	230/460	256T	Y	<b>E501</b>	256TTGN6576	*	10:1	<b>\$2,709</b>	E7	91.0	26.2/13.1	360	25.27	68
15	3600	230/460	254T	Y	<b>E502</b>	254TTGN6507	*	10:1	<b>\$2,196</b>	E7	91.7	35.0/17.5	253	23.52	68
	1800	230/460	254T	Y	<b>E503</b>	254TTGN6531	*	10:1	<b>\$2,183</b>	E7	92.4	37.5/18.8	385	23.52	68
	1800	575	254T	Y	<b>U027A</b>	254TTGN16541	*	10:1	<b>\$2,183</b>	E7	92.4	15.1	402	23.52	
	1200	230/460	284T	Y	<b>E504</b>	284TTGN6576	*	10:1	<b>\$3,763</b>	E7	91.7	41.0/20.4	536	26.34	68
20	3600	208-230/460	256T	Y	<b>E505</b>	256TTGN16509	*	10:1	<b>\$3,223</b>	E7	92.4	51-47/23.4	275	25.27	68
	1800	230/460	256T	Y	<b>E506</b>	256TTGN6531	*	10:1	<b>\$2,584</b>	E7	93.0	48.0/24.1	409	25.27	68
	1800	575	256T	Y	<b>U028A</b>	256TTGN16540	*	10:1	<b>\$2,584</b>	E7	93.0	19.3	417	25.27	
	1200	230/460	286T	Y	<b>E507</b>	286TTGN16577	*	10:1	<b>\$4,388</b>	E7	91.7	53.6/26.8	593	27.69	
25	3600	230/460	284TS	Y	<b>E546</b>	284TSTGN6503	*	10:1	<b>\$3,572</b>	E7	93.6	56.0/28.1	412	24.97	68
	1800	230/460	284T	Y	<b>E547</b>	284TTGN6533	*	10:1	<b>\$3,287</b>	E7	93.6	62.0/31.0	536	26.34	68
	1800	575	284T	Y	<b>U029A</b>	284TTGN16539		10:1	<b>\$3,287</b>	E7	93.6	24.8	358	26.34	
	1800	230/460	284TS	Y	<b>U076A</b>	284TSTGN16531		10:1	<b>\$3,287</b>	E7	93.6	62.0/31.0	484	24.97	68
	1200	230/460	324T	Y	<b>U048A</b>	324TTGS16577	*	10:1	<b>\$6,458</b>	E7	93.0	65.0/32.5	681	28.87	68
30	3600	230/460	286TS	Y	<b>E563</b>	286TSTGN6501	*	10:1	<b>\$3,849</b>	E7	93.6	67.5/34.0	487	26.47	68
	1800	230/460	286T	Y	<b>E564</b>	286TTGN6537	*	10:1	<b>\$3,811</b>	E7	94.1	80.0-73.0/36.5	588	27.84	68
	1800	575	286T	Y	<b>U030A</b>	286TTGN16533		10:1	<b>\$3,811</b>	E7	93.6	29.2	546	27.84	
	1800	208-230/460	286TS	Y	<b>U077A</b>	286TSTGN16531		10:1	<b>\$3,811</b>	E7	93.6	80.0-73.0/36.5	462	26.47	68
	1200	230/460	326T	Y	<b>E565</b>	326TTGS6578		10:1	<b>\$7,021</b>	E7	93.0	77.0/38.5	900	30.37	68
40	3600	230/460	324TS	Y	<b>E566</b>	324TSTGS6501	*	10:1	<b>\$5,181</b>	E7	93.6	94.0/47.0	734	28.87	68
	1800	230/460	324T	Y	<b>E567</b>	324TTGS6529	*	10:1	<b>\$5,072</b>	E7	94.1	95.0/47.5	749	30.37	68
	1800	575	324T	Y	<b>U031A</b>	324TTGS16535		10:1	<b>\$5,072</b>	E7	94.1	38.0	572	30.37	
	1800	230/460	324TS	Y	<b>U078A</b>	324TSTGS16531		10:1	<b>\$5,072</b>	E7	94.1	95.0/47.5	770	28.87	68
	1200	230/460	364T	Y	<b>E568A</b>	364TTGS16577	*	10:1	<b>\$8,443</b>	E7	93.6	100/50.0	1151	31.50	68
50	3600	230/460	326TS	Y	<b>E569</b>	326TSTGS6501	*	10:1@	<b>\$6,570</b>	E7	93.6	118/59.0	831	30.37	68
	1800	230/460	326T	Y	<b>E570</b>	326TTGS6532	*	10:1@	<b>\$6,177</b>	E7	94.5	123/61.5	791	30.37	68
	1800	575	326T	Y	<b>U032A</b>	326TTGS16539		10:1@	<b>\$6,177</b>	E7	94.5	49.0	572	30.37	68
	1800	208-230/460	326TS	Y	<b>U079A</b>	326TSTGS16532		10:1@	<b>\$6,177</b>	E7	94.5	120/60.0	688	28.87	68
	1200	230/460	365T	Y	<b>E571</b>	365TTGS16577	*	10:1@	<b>\$9,135</b>	E7	94.5	123/61.5	1099	32.50	87
60	3600	230/460	364TS	Y	<b>E572</b>	364TSTGS6506	*	10:1@	<b>\$9,544</b>	E7	94.5	134/67.0	1033	29.38	87
	1800	230/460	364T	Y	<b>E573A</b>	364TTGS16536	*	10:1@	<b>\$9,484</b>	E7	95.0	138/69.0	1178	31.50	87
	1800	575	364T	Y	<b>U033A</b>	364TTGS16537		10:1@	<b>\$9,484</b>	E7	95.0	55.0	1161	31.50	
	1800	208-230/460	364TS	Y	<b>U080A</b>	364TSTGS16531		10:1@	<b>\$9,484</b>	E7	95.0	138/69.0	1145	29.38	68
	1200	230/460	404T	Y	<b>E574</b>	404TTGS6588	*	10:1@	<b>\$11,407</b>	E7	94.5	144/72.0	1295	35.62	
75	3600	230/460	365TS	Y	<b>E575</b>	365TSTGS16503	*	10:1@	<b>\$11,060</b>	E7	94.1	169/84.5	1097	30.38	87
	1800	230/460	365T	Y	<b>E576A</b>	365TTGS16540	*	2:1	<b>\$11,007</b>	E7	95.4	174/87.0	1124	32.50	A,68
	1800	575	365T	Y	<b>U034A</b>	365TTGS16542		2:1	<b>\$11,007</b>	E7	95.4	69.0	1094	32.50	A
	1800	208-230/460	365TS	Y	<b>U081A</b>	365TSTGS16532		2:1	<b>\$11,007</b>	E7	95.4	174/87	1087	30.38	A,68
	1200	230/460	405T	Y	<b>E577</b>	405TTGS6589	*	10:1@	<b>\$13,283</b>	E7	94.5	180/90.0	1388	37.12	87

Blue shaded areas are Cast Iron Frames

@ Requires larger fan

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

EXPLOSION PROOF

Continued on next page.

# Hazardous Duty™ Division 1 Explosion Proof, NEMA Premium® XRI®, Class I and II, Groups C, D, F & G

## Blue Chip® Severe Duty, Three Phase

### Rigid Base

HP	RPM	VOLTS	FRAME	GROUP C	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>100</b>	3600	230/460	405TS	Y	<b>E578</b>	405TSTGS6503		10:1	\$14,962	E7	94.5	216/108	1349	34.12	87
	1800	230/460	405T	Y	<b>E594</b>	405TTGS6548	*	10:1	\$13,577	E7	95.4	226/113	1479	37.12	68
	1800	575	405T	Y	<b>U035A</b>	405TTGS16539		10:1	\$13,577	E7	95.4	90.5	1365	37.12	87
	1800	208-230/460	405TS	Y	<b>U082A</b>	405TSTGS16531		10:1	\$13,577	E7	95.4	226/113	1333	34.12	87
	1200	230/460	444T	Y	<b>E580A</b>	444TTGN16580	*	10:1@	\$18,980	E7	95.0	248/124	1813	41.35	68,87
<b>125</b>	3600	460	444TS	Y	<b>U073A</b>	444TSTGN16502		2:1	\$24,057	E7	94.5	139	1824	36.70	68
	1800	460	444T	Y	<b>E582A</b>	444TTGN16532	*	10:1@	\$19,926	E7	95.4	143	1845	41.35	68
	1800	575	444T	Y	<b>U036A</b>	444TTGN16533		10:1@	\$19,926	E7	95.4	114	1808	41.35	
	1800	460	444TS	Y	<b>U083A</b>	444TSTGN16531		10:1@	\$19,926	E7	95.4	143	1835	37.60	
	1200	460	445T	Y	<b>E583</b>	445TTGN6597		---	\$21,820	E7	95.0	155	2200	43.25	
<b>150</b>	3600	460	445TS	Y	<b>E584</b>	445TSTGN16505		---	\$28,159	E7	95.0	168	1941	39.60	
	1800	460	445T	Y	<b>E585</b>	445TTGN6542	*	10:1	\$20,729	E7	95.4	172	2173	43.35	68
	1800	575	445T	Y	<b>U037A</b>	445TTGN16544		10:1	\$20,729	E7	95.4	138	2236	43.35	
	1800	460	445TS	Y	<b>U084A</b>	445TSTGN16531		10:1	\$20,729	E7	95.4	172	2163	39.60	68
	1200	460	445T	Y	<b>U090A</b>	445TTGN16588		---	\$23,454	E7	95.8	181	2384	43.35	RB,68
<b>200</b>	3600	460	445TS	Y	<b>U075A</b>	445TSTGN16506		---	\$34,359	E7	95.4	226	2395	39.6	
	1800	460	445T	Y	<b>E588</b>	445TTGN6538		10:1@	\$23,500	E7	96.2	224	2500	43.19	68
	1800	575	445T	Y	<b>U038A</b>	445TTGN16543		10:1@	\$23,500	E7	96.2	179	2384	43.35	RB
	1200	460	449T	Y	<b>U091A</b>	449TTGS16585		10:1	\$33,349	E7	95.8	240	2878	51.85	RB,68
<b>250</b>	3600	460	449TS	Y	<b>E595</b>	449TSTGS14003		---	\$34,888	E7	96.5	275	2867	47.94	17,68,87
	1800	460	449T	Y	<b>E591</b>	449TTGS16537		10:1	\$28,830	E7	96.5	285	3012	51.85	RB
	1800	460	449T	Y	<b>H502</b>	449TTGS7068		2:1	\$26,974	E7	95.0	290	2779	51.85	RB,17,68,87
<b>300</b>	1800	460	449T	Y	<b>H503</b>	449TTGS7037		2:1	\$30,039	E7	96.5	338	3032	51.85	RB,17,68,87
<b>350</b>	1800	460	449T	Y	<b>H504</b>	449TTGS7036		---	\$33,688	E7	96.2	400	3280	51.85	RB,17

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@ Requires larger fan

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

#### "R164 Rework" Table:

R-164 Rework for 10:1 Constant Torque:  
Fan Change\* & Re-Nameplate

FRAME	LIST PRICE
143-215	\$230
254-286	\$263
324-326	\$296
364-365	\$296
404-449	\$329

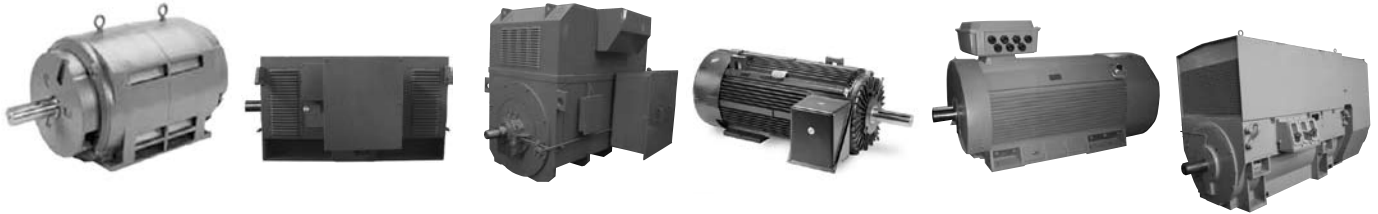
#### Multiplier Symbol S4

\* Fan change to allow 10:1 constant torque may reduce motor full load efficiency below EPIAct levels.

Operation of motor on non-sinusoidal wave form exempts motor from EPIAct mandated efficiency levels.

# Medium Voltage Motors

Marathon Electric's Medium Voltage motors are available through 3000 horsepower, and through 13.2 kV (13,200 volts). Enclosures include Dripproof (ODP), WPI, WP1I, Totally Enclosed Fan Cooled (TEFC), Totally Enclosed Air-to-Air Cooled (TEAAC) and Totally Enclosed Water-to-Air Cooled (TEWAC). Contact Marathon Electric for a quotation on any ratings or configurations not listed below.



<p><b>Marathon MV ODP NEMA</b>                  Range: 125-700HP                  Voltage: 2300/4000v                  Pole: 2-, 4-, 6-, 8-pole                  Phase: 60 Hertz                  Frame: 449T-510U NEMA                  Protection: IP23                  Ambient: 40°C                  Insulation: Class H VPI                  Construction: CI                  Performance: MG1                  Bearings: Anti-Friction                  Service Factor: 1.15                  Inverter: Yes                  Warranty: 12/18 mo.</p>	<p><b>Marathon MV WPI IEC</b>                  Range: 250-3000HP                  Voltage: 2300/4000V                  Pole: 2-, 4-, 6-, pole                  Phase: 60 Hertz                  Frame: 355-630 IEC                  Protection: IP23                  Ambient: 40°C                  Insulation: Class F VPI                  Construction: Fab                  Performance: IEC                  Bearings: Anti-Friction                  Service Factor: 1.15                  Inverter: Yes                  Warranty: 12/24 mo.</p>	<p><b>Marathon MV WP1I IEC</b>                  Range: 250-3000HP                  Voltage: 2300/4000V                  Pole: 2-, 4-, 6-, pole                  Phase: 60 Hertz                  Frame: 355-630 IEC                  Protection: IPW23                  Ambient: 40°C                  Insulation: Class F VPI                  Construction: Fab                  Performance: IEC                  Bearings: Anti-Friction                  Service Factor: 1.15                  Inverter: Yes                  Warranty: 12/24 mo.</p>	<p><b>Marathon MV TEFC NEMA</b>                  Range: 200-750HP                  Voltage: 2300/4000v                  Pole: 2-, 4-, 6-, pole                  Phase: 60 Hertz                  Frame: 5011-5013 NEMA                  Protection: IP55                  Ambient: 40°C                  Insulation: Class H VPI                  Construction: CI                  Performance: MG1                  Bearings: Anti-Friction                  Service Factor: 1.15                  Inverter: Yes                  Warranty: 12/18 mo.</p>	<p><b>Marathon MV TEFC IEC</b>                  Range: 250-2500HP                  Voltage: 2300/4000V                  Pole: 2-, 4-, 6-, pole                  Phase: 60 Hertz                  Frame: 355-560 IEC                  Protection: IP55                  Ambient: 40°C                  Insulation: Class F VPI                  Construction: CI                  Performance: IEC                  Bearings: Anti-Friction                  Service Factor: 1.15                  Inverter: Yes                  Warranty: 12/24 mo.</p>	<p><b>Marathon MV TEAAC IEC</b>                  Range: 300-3000 HP                  Voltage: 2300/4000V                  Pole: 2-, 4-, 6- pole                  Phase: 60 Hertz                  Frame: 355-630 IEC                  Protection: IP44                  Ambient: 40°C                  Insulation: Class F VPI                  Construction: Fab                  Performance: IEC                  Bearings: Anti-Friction                  Service Factor: 1.15                  Inverter: Yes                  Warranty: 12/24 mo.</p>
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## Features:

	Dripproof, 449-510 frame	Totally Enclosed, 449 frame	Totally Enclosed, 5000 frame
NEMA Premium efficiencies as noted (Table 12-13)	X	X	X
Cast iron construction B-10 life on direct-coupled loads	X	X	X
Open Conrad radial ball bearings rated for 100,000 hour B-10 life on direct-coupled loads	X	X	X
Roller bearing for belted loads	OPT	OPT	OPT
Oversized, fabricated steel conduit box	X		
Oversized, cast iron conduit box		X	X
1.15 Service Factor as available (consult factory)	OPT	OPT	OPT
Class H insulation and form wound coils	X	X	X
Epoxy, 100% solids, Vacuum Pressure Impregnation (VPI) resin	X	X	X
Grease fittings with extended grease tubes		X	X
Internal and external epoxy finish		X	X
Front and rear cast iron bearing caps		X	X
Actual test and vibration data included with each order		X	X
CSA Certified for Div. 2/Zone 2, Group A, B, C, D and Group IIA, IIB, IIC		X	X
Temp Code T3 @ 1.0 Service Factor		X	
Temp Code T2C @ 1.0 Service Factor			X
Temp Code T2B @ 1.15 Service Factor		X	X
IEEE-841 features		OPT	OPT
Provisions for jacking bolts in all four feet			X
Rotating shaft seals, Inpro® Smart Rings on each end			X
Provisions for dowel pins in drive end feet			X
Ground provisions on foot and in the conduit box			X
Dedicated 5009 frame for vertical applications			X
Frames drilled with four sets of footholes, 5009, 5010, 5011, 5012			X

MEDIUM VOLTAGE

# Medium Voltage Motors

## Multiplier Symbol S4

HP	RPM	DRIPPROOF				TOTALLY ENCLOSED			
		NEMA PREMIUM	FRAME	CAT. NO.	LIST PRICE	NEMA PREMIUM	FRAME	CAT. NO.	LIST PRICE
<b>100</b>	900	---	---	---	---	N/A	447/9T	Y255	\$44,021
<b>125</b>	1800	---	---	---	---	N/A	L447/9T	Y256	\$36,841
	1200	---	---	---	---	N/A	447/9T	Y257	\$46,638
	900	N/A	449T	Y948	\$31,755	N/A	5011LS	Y913	\$50,854
<b>150</b>	3600	---	---	---	---	N/A	447/9TS	Y903	\$40,169
	1800	---	---	---	---	N/A	L447/9T	Y900	\$38,365
	1200	---	---	---	---	N/A	447/9T	Y904	\$48,291
	900	N/A	508U	Y949	\$36,639	N/A	5011LS	Y914	\$55,271
<b>200</b>	3600	---	---	---	---	N/A	L447/9TS	Y905	\$42,734
	1800	N/A	449T	Y950	\$30,612	N/A	L447/9T	Y901	\$40,799
	1200	N/A	449T	Y958	\$33,408	N/A	L447/9T	Y906	\$48,853
	1200	---	---	---	---	N/A	5011LS	Y920	\$49,763
	900	N/A	508U	Y250	\$42,366	N/A	5011LS	Y915	\$58,343
<b>250</b>	3600	N/A	449TS	Y954	\$36,953	N/A	5011S	Y258	\$53,013
	1800	N/A	449T	Y951	\$32,220	Y	L447/9T	Y902	\$44,352
	1200	N/A	508U	Y955	\$35,172	Y	L447/9T	Y907	\$54,020
	1200	---	---	---	---	Y	5011LX	Y921	\$55,424
	900	N/A	510U	Y251	\$46,048	N/A	5011LS	Y916	\$60,035
<b>300</b>	3600	N/A	449TS	Y956	\$38,415	N/A	5011S	Y259	\$54,624
	1800	---	---	---	---	Y	L447/9T	Y908	\$49,927
	1800	N/A	508U	Y952	\$35,163	Y	5011LS	Y922	\$52,040
	1200	N/A	508U	Y942	\$38,140	Y	5011LS	Y923	\$58,781
	900	N/A	510U	Y252	\$59,657	N/A	5013LS	Y917	\$69,192
<b>350</b>	3600	N/A	449TS	Y957	\$39,892	N/A	5011S	Y260	\$55,430
	1800	N/A	508U	Y953	\$36,435	Y	5011LS	Y924	\$52,770
	1200	N/A	508U	Y943	\$41,168	Y	5011LS	Y925	\$61,156
	1200	---	---	---	---	Y	5011LX	Y935	\$64,542
	900	---	---	---	---	N/A	5013LS	Y918	\$77,531
<b>400</b>	3600	N/A	449TS	Y910	\$40,857	N/A	5011S	Y261	\$61,100
	1800	Y	508U	Y940	\$37,684	Y	5011LS	Y926	\$56,443
	1800	---	---	---	---	Y	5011LX	Y936	\$59,800
	1200	Y	510U	Y944	\$51,191	Y	5011LS	Y927	\$67,101
	900	---	---	---	---	N/A	5013LS	Y912	\$93,376
<b>450</b>	3600	---	---	---	---	N/A	5011S	Y263	\$63,146
	1800	Y	508US	Y911	\$44,726	Y	5011LS	Y928	\$60,119
	1800	Y	510U	Y941	\$40,660	Y	5011LX	Y937	\$63,474
	1200	Y	510U	Y945	\$60,053	Y	5013LS	Y929	\$72,852
	900	---	---	---	---	N/A	5013LS	Y262	\$96,676
<b>500</b>	1800	Y	510U	Y946	\$49,470	Y	5011LS	Y930	\$66,129
	1800	---	---	---	---	Y	5011LX	Y938	\$69,486
	1200	Y	510U	Y947	\$73,192	Y	5013LS	Y931	\$77,748
<b>600</b>	1800	N/A	510U	Y253	\$60,366	N/A	5011LS	Y932	\$86,835
	1800	---	---	---	---	N/A	5011LX	Y939	\$90,191
<b>700</b>	1800	N/A	510U	Y254	\$63,514	N/A	5013LS	Y933	\$92,869
<b>800</b>	1800	---	---	---	---	N/A	5013LS	Y934	\$99,622

MEDIUM VOLTAGE

# Inverter (Vector) Duty: microMAX™

## 1000:1 Constant Torque (TENV), 20:1 Constant Torque (TEFC)

### Totally Enclosed, Three Phase



**Applications:** Designed for direct replacement of PMDC or any other variable speed application where up to a 1000:1 constant torque speed range is required. Typical uses include: machine tools, conveyors, packaging machines, batching machines, and printing equipment.

- Features:**
- Designed to replace PMDC motors (when used with a VFD)
  - Constant horsepower to twice base speed (RPM)
  - Class H insulation with CR<sup>200</sup> magnet wire
  - Removable base for C-Face footless mounting, as noted
  - Continuous duty at 40°C ambient
  - “Quick Connect” terminal board, as noted
  - Top mounted conduit box found on PMDC motors
  - Eliminates brush and commutator maintenance
  - UL Recognized, CSA Certified, and CE Mark
  - Three year warranty

### C-Face Footless

HP	RPM	VOLTS	FRAME	CAT NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	“C” DIM.	FOOT NOTES
1/8	1800	230	56C	Y606	56H17T2022	*	\$235	E3	0.7	15	9.05	N,Q
1/4	1800	230	56C	Y501	56H17T2012	*	\$254	E3	1.0	16	9.80	N,Q
1/3	1800	230	56C	Y503	56H17T2014	*	\$274	E3	1.2	17	9.80	N,Q
1/2	1800	230	56C	Y505	56H17T2016	*	\$322	E3	1.8	24	10.55	N,Q
	1800	230/460	56C	Y374	56H17T2018	*	\$322	E3	1.8/0.9	24	10.55	N
	1800	575	56C	Y375	56H17T2020	*	\$322	E3	0.7	24	10.55	N,Q
3/4	1800	230	56C	Y507	56H17F2012	*	\$398	E3	2.8	21	11.19	
	1800	230/460	56C	Y376	56H17F2018	*	\$398	E3	2.8/1.4	21	11.19	
	1800	575	56C	Y377	56H17F2016	*	\$398	E3	1.1	21	11.19	
1	1800	230	56C	Y521	56H17F2014	*	\$448	E3	3.2	27	12.44	
	1800	230/460	56C	Y378	56H17F2022	*	\$448	E3	3.2/1.6	27	12.44	
	1800	575	56C	Y379	56H17F2020	*	\$448	E3	1.3	27	12.44	

### C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	CAT NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	“C” DIM.	FOOT NOTES
1/8	1800	230	56C	Y605	56H17T2021	*	\$235	E3	0.7	18	9.05	N,Q
1/4	1800	230	56C	Y500	56H17T2011	*	\$254	E3	1.0	17	9.80	N,Q
1/3	1800	230	56C	Y502	56H17T2013	*	\$274	E3	1.2	17	9.80	N,Q
1/2	1800	230	56C	Y504	56H17T2015	*	\$322	E3	1.8	24	10.55	N,Q
	1800	230/460	56C	Y360	56H17T2017	*	\$322	E3	1.8/0.9	24	10.55	N
	1800	575	56C	Y361	56H17T2019	*	\$322	E3	0.7	12	10.55	N,Q
3/4	1800	230	56C	Y506	56H17F2011	*	\$398	E3	2.8	22	11.19	
	1800	230/460	56C	Y362	56H17F2017	*	\$398	E3	2.8/1.4	21	11.19	
	1800	575	56C	Y363	56H17F2015	*	\$398	E3	1.1	22	11.19	
1	1800	230	56C	Y508	56H17F2013	*	\$448	E3	3.2	28	12.44	
	1800	230/460	56C	Y364	56H17F2021	*	\$448	E3	3.2/1.6	27	12.44	
	1800	575	56C	Y365	56H17F2019	*	\$448	E3	1.3	22	12.44	
1 1/2	1800	230	145TC	Y522	145THTR5328	*	\$557	E3	4.8	48	13.48	N,6
	1800	230/460	145TC	Y366	145THTR5329	*	\$557	E3	4.8/2.4	49	13.48	N,6
	1800	575	145TC	Y367	145THTR5330	*	\$557	E3	1.9	50	13.48	N,6
2	1800	230	145TC	Y523	145THFR5326	*	\$739	E3	5.8	53	14.87	6
	1800	230/460	145TC	Y368	145THFR5329	*	\$739	E3	5.8/2.9	50	14.87	6
	1800	575	145TC	Y369	145THFR5330	*	\$739	E3	2.3	49	14.87	6

Continued on next page.



# Inverter (Vector) Duty: microMAX™

## 1000:1 Constant Torque (TENV), 20:1 Constant Torque (TEFC)

### Totally Enclosed, Three Phase

#### C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	CAT NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
3	1800	230	182/145TC	Y530	182THFR5326		\$871	E3	8.4	60	14.87	86,88
	1800	230	182TC	Y1998	182THFW7726		\$909	E3	7.8	76	14.97	6,13
	1800	230/460	182/145TC	Y370	182THFR5329	*	\$871	E3	8.4/4.2	52	14.87	86,88
	1800	230/460	182TC	Y999	182THFR7729	*	\$909	E3	8.4/4.2	76	16.19	d,6
	1800	230/460	182TC	Y1999	182THFW7729	*	\$909	E3	7.8/3.9	76	14.97	6,13
	1800	575	182/145TC	Y371	182THFR5330		\$871	E3	3.4	52	14.87	86,88
	1800	575	182TC	Y270	182THFR7730	*	\$909	E3	3.4	86	16.19	d,6
	1800	575	182TC	Y1270	182THFW7730	*	\$909	E3	2.9	86	14.97	6,13
5	1800	230/460	184TC	Y372	184THFR7726	*	\$1,034	E3	13.4/6.7	92	16.69	d,6
	1800	230/460	184TC	Y1372	184THFW7726	*	\$1,034	E3	12.8/6.4	92	15.97	6,13
	1800	575	184TC	Y373	184THFR7736		\$1,034	E3	5.4	95	16.69	6
	1800	575	184TC	Y1373	184THFW7736	*	\$1,034	E3	5.1	95	15.97	6,13
7 1/2	1800	230/460	213TC	Y994	213THFW7726	*	\$1,322	E3	21.4/10.7	98	20.97	6
	1800	575	213TC	Y995	213THFW7736		\$1,322	E3	8.5	98	20.97	6
10	1800	230/460	215TC	Y996	215THFW7726	*	\$1,691	E3	27.6/13.8	125	22.22	6
	1800	575	215TC	Y997	215THFW7736		\$1,691	E3	11.1	125	22.22	6

# Inverter (Vector) Duty: Max + (with Encoder)

## 1000:1 Constant Torque, Totally Enclosed, Three Phase



**Applications:** The **MAX+**™ incorporates low rotor inertia for fast starts, stops, and reversals. Coupled with an encoder make this useful in applications traditionally served only by servo systems. The **MAX+**™ is also suitable for all applications where up to a 1000:1 Constant Torque speed range or positioning is required.

- Features:**
- **Integrated Dynapar HS20 1024 ppr encoder**
  - Class F insulation with CR200 corona resistant magnet wire
  - Constant Torque operation from 0 to base speed on Vector Drive
  - Constant Horsepower operation up to twice base RPM
  - Continuous duty at 40°C ambient
  - Optimized for operation with IGBT inverter
  - Removable base for C-Face footless mounting, as noted
  - Ball bearings
  - Field reversible to F2 (except as noted)
  - UL Recognized, CSA Certified, and CE Mark
  - Three year warranty

#### C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	ENCODER PPR	CAT NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/2	1800	230/460	56C	1024	Y280	56H17T15526	*	\$992	E3	1.6/8	29	13.48	S,6,13
3/4	1800	230/460	56C	1024	Y281	56H17T15528	*	\$1,038	E3	2.4/1.2	35	13.48	S,6,13
1	1800	230/460	56C	1024	Y282	56H17T15527	*	\$1,099	E3	3/1.5	41	14.98	S,6,13
	1800	230/460	143TC	1024	Y283	143THTR15535	*	\$1,183	E3	3/1.5	42	15.04	S,6,13
1 1/2	1800	230/460	145TC	1024	Y284	145THTR15540	*	\$1,308	E3	4/2	50	16.04	S,6,13
2	1800	230/460	145TC	1024	Y285	145HTN17034	*	\$1,755	E3	6/3	75	14.68	
3	1800	230/460	182TC	1024	Y286	182HTL17041	*	\$1,972	E3	8.4/4.2	95	17.39	AL
5	1800	230/460	184TC	1024	Y287	184HTL17038	*	\$2,147	E3	14/7	112	18.94	AL

# Inverter (Vector) Duty: Black Max® 1000:1 Constant Torque, TENV, Three Phase



**Applications:** Designed for inverter or vector applications where up to a 1000:1 Constant Torque speed range is required. Typical uses include: material handling, machine tools, conveyors, crane and hoist, metal processing, test stands, pumps compressors, textile processing, and other industrial machinery installed in dusty or dirty environments.

**Features:**

- MAX GUARD® Class F insulation system
- Constant Torque operation from 0 to base speed on Vector Drive
- Constant Horsepower operation up to twice base RPM
- Continuous duty at 40°C ambient
- Optimized for operation with IGBT inverter (NEMA Design A)
- Normally closed thermostats (one per phase, Class F)
- Removable rigid base, as noted
- Ball Bearings
- Field reversible to F2 (except as noted)
- Encoder and brake provisions included on opposite drive end (maximum 10 lb-ft brake, see Modifications and/or Accessory Kits sections)
- UL Recognized, CSA Certified, and CE Mark
- Three year warranty



## C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/4	1800	230/460	56C	TSTAT	Y592	56H17T2001	★	\$373	E3	1.2/0.6	19	11.88	S,13
1/2	1800	230/460	56C	TSTAT	Y534	56H17T5301	★	\$467	E3	1.6/0.8	35	13.48	S,6,13
	1800	575	56C	TSTAT	Y555	56H17T5311	★	\$467	E3	0.6	35	13.48	S,6,13
1	1800	230/460	56C	TSTAT	Y535	56H17T5302	★	\$557	E3	3.0/1.5	39	14.98	S,6,13
	1800	575	56C	TSTAT	Y556	56H17T5312	★	\$557	E3	1.2	39	14.98	S,6,13
	1800	230/460	143TC	TSTAT	Y536	143THTR5326	★	\$572	E3	3.0/1.5	48	15.04	S,6,13
	1200	230/460	145TC	TSTAT	Y537	145THTR5376	★	\$663	E3	3.8/1.9	49	16.04	S,6,13
1 1/2	1800	230/460	145TC	TSTAT	Y538	145THTR5326	★	\$695	E3	4.8/2.4	50	16.04	S,6,13
2	1800	230/460	145TC	TSTAT	Y551	145THTN6046	★	\$960	E3	6.0/3.0	73	14.68	
	1800	575	145TC	TSTAT	Y557	145THTN6060	★	\$960	E3	2.4	73	14.68	
	1200	230/460	184TC	TSTAT	Y540	184THTL7776	★	\$1,373	E3	6.6/3.3	88	16.94	AL
3	1800	230/460	182TC	TSTAT	Y541	182THTL7726	★	\$1,190	E3	8.4/4.2	95	17.39	AL
	1800	575	182TC	TSTAT	Y558	182THTL7736	★	\$1,190	E3	3.4	95	17.39	AL
	1200	230/460	213TC	TSTAT	Y542	213THTL7776	★	\$1,691	E3	9.4/4.7	105	19.94	AL
5	1800	230/460	184TC	TSTAT	Y543	184THTL7726	★	\$1,421	E3	14.0/7.0	110	18.94	AL
	1800	575	184TC	TSTAT	Y559	184THTL7736	★	\$1,421	E3	5.6	110	18.94	AL
	1200	230/460	215TC	TSTAT	Y544	215THTL7776	★	\$2,057	E3	15.4/7.7	146	20.54	AL
7 1/2	1800	230/460	213TC	TSTAT	Y545	213THTL7726	★	\$1,865	E3	21.0/10.5	146	20.54	AL
	1800	575	213TC	TSTAT	Y560	213THTL7736	★	\$1,865	E3	8.4	146	20.54	AL
	1200	230/460	254TC	TSTAT	Y546	254THTL5776	★	\$2,767	E3	22.0/11.0	223	25.37	AL,I
10	1800	230/460	215TC	TSTAT	Y547	215THTL7726	★	\$2,231	E3	27.0/13.5	219	23.04	AL
	1800	575	215TC	TSTAT	Y561	215THTL7736	★	\$2,231	E3	10.8	219	23.04	AL
	1200	230/460	256TC	TSTAT	Y548	256THTL5776	★	\$3,132	E3	28.0/14.0	229	26.87	AL,I
15	1800	230/460	254TC	TSTAT	Y549	254THTL5726	★	\$2,655	E3	40.0/20.0	260	26.87	I,AL
	1800	575	254TC	TSTAT	Y562	254THTL5736	★	\$2,655	E3	16.0	260	26.87	I,AL
20	1800	230/460	256TC	TSTAT	Y552	256HTNA7026	★	\$3,876	E3	52.0/26.0	300	27.13	
	1800	575	256TC	TSTAT	Y563	256HTNA7036	★	\$3,876	E3	20.8	300	27.13	
25	1800	230/460	284TC	TSTAT	Y553	284HTNA7026	★	\$4,216	E3	62.0/31.0	379	27.08	I
	1800	575	284TC	TSTAT	Y567	284HTNA7036	★	\$4,216	E3	24.8	379	27.08	I
30	1800	230/460	286TC	TSTAT	Y393	286HTNA7026	★	\$4,754	E3	74.0/37.0	575	28.58	I
	1800	575	286TC	TSTAT	Y394	286HTNA7036	★	\$4,754	E3	29.6	575	28.58	I

Blue shaded areas are Cast Iron Frames

Contact Marathon for other base speeds and options not shown in this catalog.

# Inverter (Vector) Duty: Black Max® Hazardous Duty™ 1000:1 Constant Torque, Explosion Proof, Three Phase

**Class I and II (gases and dust), Groups C, D, F & G, TENV**



**Applications:** For use in material handling, machine tools, conveyors, crane & hoist, and other variable speed applications requiring up to 1000:1 constant torque speed range, to be installed in hazardous environments as defined by the motor's explosion proof class and group rating. Refer to the General Information sections contained in this catalog for information on explosion proof classifications. Consult the National Electrical Code and your local regulations for the proper selection of motors in hazardous locations.



**Features:**

- MAX GUARD® Class F insulation system
- Constant torque operation from 0 to base speed on vector drive
- Constant HP operation to twice base RPM
- Continuous duty at 40°C ambient
- Optimized for operation with IGBT inverter (NEMA Design A)
- Normally closed thermostats (one per phase, Class F)
- Ball Bearings
- Top mount (F3) conduit box included, shipped loose
- No Encoder Provisions provided
- Meets temperature code T3B
- UL listed, under file #E12044
- CSA certified, under file numbers LR47504 and LR21839
- Three year warranty

## C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/4	1800	230/460	56C	TSTAT	Y600	56H17E5301	★	\$556	E3	1.1/0.55	26	11.97	
1/3	1800	230/460	56C	TSTAT	Y601	56H17E5302	★	\$652	E3	1.2/0.6	26	11.97	
1/2	1800	230/460	56C	TSTAT	Y602	56H17E5303	★	\$703	E3	1.6/0.8	31	12.47	
3/4	1800	230/460	56C	TSTAT	Y603	56H17E5304	★	\$778	E3	2.4/1.2	38	13.47	
1	1800	230/460	56C	TSTAT	Y604	56H17E5305	★	\$852	E3	3.0/1.5	43	13.97	

Contact Marathon Electric for other base speeds and options not shown in this catalog.

# Inverter (Vector) Duty: Blue Max® 2000

## 2000:1 Constant Torque, Totally Enclosed, Three Phase



**Applications:** Designed for inverter or vector applications where up to a 2000:1 constant torque speed range is required. Typical uses include: material handling, machine tools, conveyors, crane and hoist, metal processing, test stands, pumps, compressors, textile processing, and other industrial machinery installed in dusty or dirty environments where cast iron construction is required.

- Features:**
- MAX GUARD® Class H insulation system
  - Constant torque operation from 0 to base speed on vector drive, including TEFC (On Volts/ Hertz drives, TEFC motors are limited to 20:1 constant torque)
  - Constant HP operation to twice base speed (143-256 frame); 1.5 times base (all others)
  - Optimized for operation with IGBT inverter
  - C-Face foot mount through 100 HP, as noted
  - Normally closed thermostats (one per phase, class F)
  - Continuous duty at 40°C ambient
  - 1.0 Service Factor ("B" rise on TEBC motors)
  - Blue Chip quality, cast iron frame and brackets
  - Patented "fracket" design (TEBC enclosure)
  - Ball Bearings (roller bearing available 360 Frame & larger)
  - Field reversible to F2
  - Encoder provisions included on opposite drive end (see Modification and/or Accessory Kits sections)
  - UL Recognized, CSA Certified, and CE Mark
  - Three year warranty



### Rigid Base and C-Face Footed (Rigid Base)

HP	RPM	VOLTS	ENCL	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1</b>	1800	230/460	TENV	143TC	Y525	143THTN8028	★	\$1,003	E3	3.0/1.5	61	13.68	B
<b>1 1/2</b>	1800	230/460	TENV	145TC	Y590	145THTN8037	★	\$1,008	E3	4.6/2.3	65	14.68	
<b>2</b>	1800	230/460	TENV	145TC	Y526	145THTN8029	★	\$1,086	E3	6.0/3.0	71	14.68	
<b>3</b>	1800	230/460	TENV	182TC	Y527	182THTS8028	★	\$1,364	E3	8.0/4.0	113	16.68	
<b>5</b>	1800	230/460	TENV	184TC	Y564	184THTS8028	★	\$1,525	E3	13.4/6.7	147	17.68	
<b>7 1/2</b>	1800	230/460	TEFC	213TC	Y595	213THFS8028	★	\$1,784	E3	19.4/9.7	192	21.03	
	1800	230/460	TENV	213TC	Y565	213THTS8038	★	\$2,055	E3	21.0/10.5	85	20.56	
<b>10</b>	1800	230/460	TEFC	215TC	Y596	215THFS8029	★	\$2,132	E3	25.4/12.7	252	22.53	
	1800	230/460	TENV	215TC	Y566	215THTS8038	★	\$2,437	E3	26.0/13.0	272	22.74	
<b>15</b>	1800	230/460	TEFC	254TC	Y597	254THFNA8038	★	\$2,568	E3	37.0/18.5	350	26.34	
	1800	230/460	TENV	254TC	Y509	254THTNA8058	★	\$2,917	E3	40.4/20.2	334	23.38	
	1200	230/460	TEBC	284TC	Y395	284THFPA8086		\$5,723	E3	40.0/20.0	500	37.48	BP
<b>20</b>	1800	230/460	TEFC	256TC	Y598	256THFNA8038	★	\$2,841	E3	52.0/26.0	377	28.09	
	1800	230/460	TENV	256TC	Y510	256THTNA8038	★	\$4,038	E3	52.0/26.0	425	27.13	
	1200	230/460	TEBC	286TC	Y582	286THFPA8086		\$7,399	E3	52.4/26.2	660	38.98	BP
<b>25</b>	1800	230/460	TEFC	284T	Y569	284THFPA8028	★	\$3,548	E3	63.0/31.5	393	28.58	
	1800	230/460	TEBC	284TC	Y511	284THFPA8038	★	\$4,959	E3	63.0/31.5	470	37.48	BP
	1200	230/460	TEBC	324TC	Y583	324THFPA8086		\$8,703	E3	67.0/33.5	633	40.41	B,BP
<b>30</b>	1800	230/460	TEFC	286T	Y570	286THFNA8028	★	\$4,056	E3	77.0/38.5	371	29.91	
	1800	230/460	TEBC	286TC	Y512	286THFPA8038	★	\$5,467	E3	74.0/37.0	507	38.98	BP
	1200	230/460	TEBC	326TC	Y584	326THFPA8086		\$9,574	E3	80.4/40.2	550	41.91	B,BP
<b>40</b>	1800	230/460	TEFC	324T	Y571	324THFPA8028	★	\$5,252	E3	100/50.0	545	30.71	
	1800	230/460	TEBC	324TC	Y513	324THFPA8038	★	\$6,549	E3	100/50.0	531	40.41	BP
	1200	230/460	TEBC	364TC	Y585	364THFS8391		\$11,549	E3	107/53.5	1011	42.67	BP
<b>50</b>	1800	230/460	TEFC	326T	Y572	326THFS8028	★	\$6,497	E3	121/60.5	765	32.44	
	1800	230/460	TEBC	326TC	Y514	326THFPA8038	★	\$7,508	E3	120/60.0	686	41.91	BP
	1200	230/460	TEBC	365TC	Y586	365THFS8380		\$13,845	E3	130/65.0	1081	43.78	BP
<b>60</b>	1800	230/460	TEFC	364T	Y573	364THFS8036	★	\$8,375	E3	147/73.5	987	33.70	
	1800	230/460	TEBC	364TC	Y515	364THFS8046	★	\$9,191	E3	147/73.5	1062	42.67	BP
	1200	230/460	TEBC	404TC	Y587	404THFS8092		\$15,358	E3	142/71.0	1339	48.22	BP
<b>75</b>	1800	230/460	TEFC	365T	Y574	365THFS8036	★	\$9,487	E3	184/92.0	1061	34.69	
	1800	230/460	TEBC	365TC	Y516	365THFS8046	★	\$10,987	E3	180/90.0	1129	43.67	BP
	1200	230/460	TEBC	405TC	Y588	405THFS8378	★	\$18,713	E3	180/90.0	1387	49.72	B,BP

Blue shaded areas are Cast Iron Frames

Continued on next page.

# Inverter (Vector) Duty: Blue Max® 2000 2000:1 Constant Torque, Totally Enclosed, Three Phase

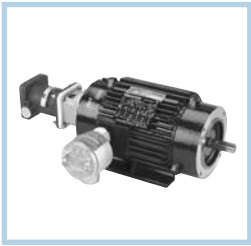
Rigid Base and C-Face Footed (Rigid Base)

HP	RPM	VOLTS	ENCL	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
100	1800	230/460	TEFC	405T	Y575	405THFS8036	★	\$12,838	E3	230/115	1308	39.32	
	1800	230/460	TEBC	405TC	Y517	405THFS8046	★	\$15,337	E3	230/115	1529	49.72	BP
	1200	230/460	TEBC	444TC	Y589	444THFN8384	★	\$21,478	E3	250/125	2117	52.72	BP
125	1800	460	TEFC	444T	Y576	444THFN8036	★	\$16,896	E3	143	2053	43.27	
	1800	460	TEBC	444T	Y518	444THFN8046	★	\$19,545	E3	138	2010	52.72	B,BP
150	1800	460	TEFC	445T	Y577	445THFN8036	★	\$19,507	E3	170	2247	45.27	
	1800	460	TEBC	445T	Y519	445THFN8046	★	\$22,155	E3	170	2310	54.72	BP
200	1800	460	TEFC	445T	Y578	445THFN8040	★	\$23,547	E3	230	2388	45.27	
	1800	460	TEBC	445T	Y520	445THFN8050	★	\$26,195	E3	230	2430	54.72	BP
250	1800	460	TEFC	449T	Y579	449THFS8036		\$29,330	E3	280	2900	53.89	CT
	1800	460	TEBC	449T	Y531	449THFS8046	★	\$32,811	E3	295	2991	63.21	BP
300	1800	460	TEFC	449T	Y580	449THFS8037		\$33,396	E3	330	3077	53.89	CT
	1800	460	TEBC	449T	Y532	449THFS8047	★	\$36,876	E3	327	2950	63.21	BP
350	1800	460	TEBC	449T	Y533	449THFS8048	★	\$40,358	E3	385	3099	63.21	BP

Blue shaded areas are Cast Iron Frames

# Inverter (Vector) Duty: Blue Max® 2000 Hazardous Duty™ (with Encoder) 2000:1 Constant Torque, Explosion Proof, Three Phase

Class I and II (gases and dust), Groups C (as noted), D, F & G, TENV



**Applications:** Designed for industrial applications with Vector Drives where up to a 2000:1 constant torque speed range and/or precise speed or torque regulation is required, including positioning equipment. Used in dirty, dusty or caustic environments where cast iron construction is required, and installed in hazardous environments as defined by the motor's explosion proof class and group rating. Consult the National Electrical Code and your local regulations for the proper selection of motors in hazardous locations.

- Features:**
- BEI H38 explosion proof encoder 1024 ppr, Class I Groups C & D, Class II Groups E, F, G included
  - MAX GUARD® Class F insulation system
  - Constant torque operation from 0 to base speed on vector drive
  - Constant HP operation up to twice base speed
  - Continuous duty at 40°C ambient
  - Optimized for operation with IGBT inverter (NEMA Design A)
  - Normally closed thermostats (one per phase, Class F)
  - Ball Bearings
  - Cast iron frame and brackets
  - F1 standard, NOT field reversible to F2
  - UL Listed File No. E12044, MC228275
  - CSA Certified File No. LR47504, MC236833
  - Meets temperature code T3B
  - Three year warranty



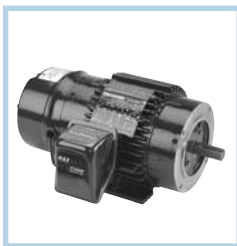
C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1	1800	230/460	143TC	TSTAT	Y978	143THEN8034	★	\$5,810	E3	3.0/1.5	86	21.44	
2	1800	230/460	145TC	TSTAT	Y979	145THEN8034	★	\$5,932	E3	5.8/2.9	90	21.44	
3	1800	230/460	182TC	TSTAT	Y980	182THES8048	★	\$6,123	E3	8.2/4.1	117	24.82	
5	1800	230/460	213TC	TSTAT	Y981	213THES8053	★	\$6,442	E3	13.0/6.5	240	27.42	
7 1/2	1800	230/460	254TC	TSTAT	Y982	254THEN8058	★	\$7,326	E3	22/11	344	30.20	CD
10	1800	230/460	254TC	TSTAT	Y983	254THEN8059	★	\$7,675	E3	27.0/13.5	376	30.20	CD
15	1800	230/460	256TC	TSTAT	Y984	256THEN17031		\$8,024	E3	36.0/18.0	432	31.95	CD
20	1800	230/460	284TC	TSTAT	Y985	284THEN8032		\$8,857	E3	53/26.5	555	33.16	CD

Blue shaded areas are cast iron frames.



# Inverter (Vector) Duty: Blue Max® 2000 Brakemotors 2000:1 Constant Torque, TENV, Three Phase



**Applications:** Designed for vector applications where up to a 2000:1 constant torque speed range is required. For use on Conveyors, Machine tools, Cranes, Hoists, and other industrial machinery requiring quick stop and/or holding torque.

- Features:**
- MAX GUARD® Class F insulation system
  - Constant torque operation from 0 to base speed on vector drive
  - Constant HP operation to twice base speed
  - Optimized for operation with IGBT inverter (NEMA Design A)
  - Normally closed thermostats (one per phase, Class F)
  - Ball Bearings
  - Continuous duty at 40°C ambient
  - Will accept encoder through Mod Central (see mod 24 for encoder mounting)
  - Includes 140% rated spring-set self-adjusting NEMA 2 disk brake (Brake coil voltage matches motor)
  - Horizontal mounting (see comment below and Mod Central for vertical mounting)
  - UL Recognized, CSA Certified, and CE Mark
  - Three year warranty (brake disks are exempt)



## C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	BRAKE TQ. (LB/FT)
1	1800	230/460	143TC	Y986	143THTN8036	*	\$1,813	E3	3.0/1.5	72	17.00	6
2	1800	230/460	145TC	Y987	145THTN8043	*	\$2,019	E3	6.0/3.0	83	18.00	10
3	1800	230/460	182TC	Y988	182THTS8048	*	\$2,644	E3	8.2/4.1	118	19.67	15
5	1800	230/460	184TC	Y989	184THTS8056	*	\$3,187	E3	13.4/6.7	161	25.58	25
7 1/2	1800	230/460	213TC	Y990	213THTS8071	*	\$3,994	E3	21.0/10.5	256	27.58	35
10	1800	230/460	215TC	Y991	215THTS8071	*	\$4,746	E3	26.0/13.0	302	28.83	50
15	1800	230/460	254TC	Y992	254THTNA8071	*	\$6,031	E3	40.5/20.2	384	31.53	75
20	1800	230/460	256TC	Y993	256THTNA8071	*	\$7,994	E3	52.0/26.0	427	33.28	105

Blue shaded areas are Cast Iron Frames

## 1024 ppr Encoders through MOD Central

Multiplier Symbol E3

BRAND	MODEL	CAT. NO.	KIT NUMBER	STOCK	LIST (LOOSE)	LIST (INSTALLED)	FITS BRAKEMOTOR CAT. NO.	WEIGHT
Avtron	AV56	A748	KIT M561024BRK-140	*	\$2,283	\$2,619	Y986, Y987	4
		A749	KIT M561024BRK-182	*	\$2,283	\$2,619	Y988	4
	M85	A750	KIT M851024BRK-184	*	\$3,080	\$3,416	Y989	5
		A751	KIT M851024BRK-210	*	\$3,080	\$3,416	Y990, Y991	8
		A752	KIT M851024BRK-250	*	\$3,080	\$3,416	Y992, Y993	8
NorthStar	SL56	A786	KIT LKSR-CFACE	*	\$2,510	\$2,846	Y986, Y987	4
		A789	KIT SL561024-182NV	*	\$2,510	\$2,846	Y988	4
	SL85	A790	KIT SL851024-184NV	*	\$3,080	\$3,416	Y989	8
		A791	KIT SL851024-210NV	*	\$3,080	\$3,416	Y990, Y991	8
		A792	KIT SL851024-250NV	*	\$3,080	\$3,416	Y992, Y993	8

Vertical Mounting: 3 HP (182) and lower are suitable for shaft up or down.

5 HP (184) and larger, need vertical modification. Use Cat #: A157, KIT VRT87BRK (SEE MOD SECTION)

CAT. NO.	STOCK	MODEL NO.	LIST KIT ONLY	LIST INSTALLED	WEIGHT
A157	*	KIT VRT87BRK	\$420	\$552	3

# DC Permanent Magnet SCR Rated, Totally Enclosed C-Face Footed (Removable Base)



## Features:

- Class F insulation
- NEMA C-Face with removable rigid base
- Oversized brushes for extra long life
- Permanently lubricated sealed ball bearings
- Linear speed/torque characteristics over entire speed range
- High starting torque, high peak current capability
- Usable on PWM type DC adjustable speed drives at higher HP rating
- Easy brush access with unique brush holder design
- UL Recognized and CSA Certified

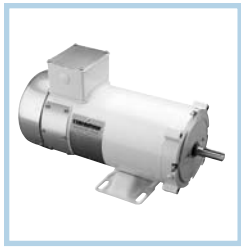
HP	RPM	DC VOLTS	FRAME	ENCL.	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	C.T. SPEED RANGE	F.L. AMPS	PWM HP RATING	WEIGHT	"C" DIM.	FOOT NOTES
1/4	1750	90	56C	TEFC	Z602	56E17F1001	★	\$498	D1	2:1	2.5	0.40	22	10.81	
	1750	180	56C	TEFC	Z603	56E17F1002	★	\$498	D1	2:1	1.4	0.50	22	11.31	
1/3	1750	90	56C	TEFC	Z604	56E17F1003	★	\$528	D1	2:1	3.5	0.50	24	11.31	
	1750	180	56C	TEFC	Z605	56E17F1004	★	\$528	D1	2:1	1.7	0.50	22	11.31	
1/2	1750	90	56C	TEFC	Z606	56E17F1005	★	\$588	D1	2:1	5.0	0.70	26	11.81	
	1750	180	56C	TEFC	Z607	56E17F1006	★	\$588	D1	2:1	2.5	0.56	25	11.81	
3/4	1750	90	56C	TEFC	Z610	56E17F1007	★	\$714	D1	2:1	7.6	1.00	34	13.81	
	1750	180	56C	TEFC	Z611	56E17F1008	★	\$714	D1	2:1	3.8	1.00	34	13.81	
1	1750	90	56C	TEFC	Z612	56E17F2005	★	\$872	D1	2:1	10.0	1.25	45	14.81	
	1750	180	56C	TEFC	Z613	56E17F2006	★	\$872	D1	2:1	5.0	1.25	41	14.81	
1 1/2	1750	180	56C	TEFC	Z614	56E17F2007	★	\$1,090	D1	2:1	7.6	1.75	52	16.81	
	1750	180	145TC	TEFC	Z615	145TEFR5326	★	\$1,656	D1	2:1	7.5	1.50	74	18.34	
2	1750	180	145TC	TEFC	Z616	145TEFR5327	★	\$1,975	D1	2:1	9.5	2.00	86	19.34	
	1750	180	182/145TC	TEFC	Z617	182TEFR5326	★	\$1,975	D1	2:1	9.5	2.00	83	19.34	84

## SCR PMDC motors on PWM power supplies

Pulse width modulated DC controls have a voltage output similar to pure direct current which has a form factor of 1.05. SCR thyristor drives have a form factor of 1.40. Marathon Electric's non-Explosion Proof PMDC, SCR-rated motors can also be used with PWM controls, and due to the lower form factor and the resultant lower heating in the motor, their rating can be increased as indicated above. Operation on PWM controls will also result in quieter operation and longer brush life.

# Washdown, DC Permanent Magnet SCR Rated, Totally Enclosed

## C-Face Footed (Removable Base)



### Features:

- Class F insulation
- NEMA C-Face with removable rigid base
- Oversized brushes for extra long life
- Doubled sealed, oversized ball bearings
- Corrosion resistant 303 stainless steel shaft
- "V" ring Forsheda seals
- High temperature, moisture resistant lubricant
- Exterior and interior components protected with enamel & polyester compounds
- Aluminum conduit box, threaded and gasketed
- Drains at 3:00, 6:00, 9:00 and 12:00 locations
- Sealed machine fits
- Stainless steel nameplate
- USDA approved white epoxy paint
- UL Recognized and CSA Certified

HP	RPM	DC VOLTS	FRAME	ENCL.	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	C.T. SPEED RANGE	F.L. AMPS	PWM HP RATING	WEIGHT	"C" DIM.	FOOT NOTES
1/4	1750	90	56C	TENV	Z630	56E17V2001	*	\$639	D1	20:1	2.7	0.30	24	10.69	
1/3	1750	90	56C	TENV	Z631	56E17V2002		\$676	D1	20:1	3.5	0.56	30	11.69	
1/2	1750	90	56C	TENV	Z634	56E17V2003	*	\$757	D1	20:1	4.9	0.75	37	13.69	
	1750	180	56C	TENV	Z635	56E17V2004	*	\$757	D1	20:1	2.4	0.70	41	13.69	
3/4	1750	90	56C	TENV	Z636	56E17V2005	*	\$918	D1	20:1	7.0	1.25	51	14.67	
	1750	180	56C	TENV	Z637	56E17V2006		\$918	D1	20:1	3.5	1.25	50	14.17	
1	1750	90	56C	TEFC	Z638	56E17W2001	*	\$1,120	D1	2:1	10.0	1.25	45	14.81	
	1750	180	56C	TEFC	Z639	56E17W2002	*	\$1,120	D1	2:1	5.0	1.25	41	14.81	
1 1/2	1750	180	56C	TEFC	Z641	56E17W2003		\$1,430	D1	2:1	7.6	1.75	51	16.81	

# Low Voltage, DC Permanent Magnet TENV and TEFC

## C-Face Footed (Removable Base)



### Applications:

Low voltage permanent magnet DC motors are suitable for installations having batteries or generator supplied low voltage DC.

### Features:

- Permanently lubricated sealed ball bearings
- NEMA C-Face with removable base
- Class H insulation
- Easy brush access with unique brush holder design
- Oversized brushes for extra long life
- High starting torque
- U.L. Recognized and CSA Certified

HP	RPM	DC VOLTS	FRAME	ENCL.	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/4	1750	12	56C	TENV	Z660	56E17T2001	*	\$535	D1	21.0	22	10.27	85
1/3	1750	12	56C	TENV	Z662	56E17T2002	*	\$589	D1	27.0	24	10.77	d,85
	1750	24	56C	TENV	Z663	56E17T2003	*	\$563	D1	13.5	23	10.77	85
1/2	1750	12	56C	TENV	Z664	56E17T2004	*	\$612	D1	39.0	30	11.77	85
	1750	24	56C	TENV	Z665	56E17T2005	*	\$585	D1	20.0	28	11.77	d,85
3/4	1750	12	56C	TEFC	Z666	56E17F2008	*	\$676	D1	58.0	35	13.81	
	1750	24	56C	TEFC	Z667	56E17F2009	*	\$611	D1	29.0	32	12.81	85
1	1750	12	56C	TEFC	Z668	56E17F2010	*	\$805	D1	80.0	39	13.81	
	1750	24	56C	TEFC	Z669	56E17F2011	*	\$742	D1	39.0	34	13.81	85

# Globetrotter® IEC (Metric) Frame, Three Phase

## Totally Enclosed, B3 Mounting, Rigid Base

**Applications:** For use on fans, pumps, compressors, conveyors, and other equipment requiring IEC dimensions and electrical standards. The Globetrotter is not only designed to International standards but meets NEMA performance and efficiency standards making it suitable for requirements worldwide.



**Features:**

- Meets EFF3 European and NEMA Premium efficiencies
- Aluminum (63-90 frame) or Cast Iron (100-250 frame) construction
- Nameplated 60/50 hertz at same HP (except as noted)
- Max Guard® Class F Insulation, Class B rise @ rated KW
- IP55 weatherproof enclosure
- Rotatable/Removable Base (63-90 frame)
- Wye Start-Delta Run on 160 Frame and larger
- 10:1 Variable Torque, Constant Torque speed range as noted
- Top Mounted/Oversized gasketed terminal box
- Meets IEEE45, IEC60092 & USCG CFR46 Marine Duty (63-90 frame "Below Deck")
- 1.15 Service Factor on 60 Hz sine wave, 1.0 SF or VFD
- IEC Design "N" with NEMA "B" Torques
- Terminal Blocks, Stud Type, Zero Creepage
- Kits or MOD Central for B3/B14 mounting, see Accessories section
- Meets IEC 34 electrical standards
- Meets IEC 72 dimensions and tolerances
- CE Marked
- 1 Year Warranty



**CONSULT  
MARATHON ELECTRIC  
FOR SPECIAL IEC  
MOTORS**

Multiplier Symbol F4

Suitable for use on VFD per guidelines on page 17.

HP/ KW	RPM 60/50 HZ	60 HZ VOLTS	50 HZ VOLTS	IEC FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE†	LIST PRICE	NOM. EFF.	60 HZ F.L. AMPS	WEIGHT	IEC "L" DIM. (MM)	FOOT NOTES	B5/FF FLANGE
<b>1/4-.18</b>	3600/3000	230/460	200/400	63	R300	63T34FH5301	*	20:1	\$187	72.0	0.8/0.4	11	217		
	3600/3000	575	480	63	R400	63T34FH5303	*	20:1	\$187	72.0	0.3	11	217		
	1800/1500	230/460	200/400	63	R301	63T17FH5326	*	20:1	\$195	68.0	1.0/0.5	12	217		
	1800/1500	575	480	63	R401	63T17FH5327	*	20:1	\$195	68.0	0.4	12	217		
	1200/1000	230/460	200/400	71	R302	71T11FH5376	*	20:1	\$332	64.0	1.2/0.6	13	240		
<b>1/3-.25</b>	3600/3000	230/460	200/400	63	R303	63T34FH5302	*	20:1	\$219	72.0	1.1/.55	12	217		
	3600/3000	575	480	63	R403	63T34FH5304	*	20:1	\$219	72.0	0.4	12	217		
	1800/1500	230/460	200/400	71	R304	71T17FH5326	*	20:1	\$228	68.0	1.4/.7	14	240		
	1800/1500	575	480	71	R404	71T17FH5330	*	20:1	\$228	68.0	0.6	14	240		
	1200/1000	230/460	200/400	80	R305	80T11FH5376	*	20:1	\$357	70.0	1.3/.65	20	282		
<b>1/2-.37</b>	3600/3000	230/460	200/400	71	R306	71T34FH5301	*	20:1	\$233	74.0	1.6/.8	14	240		
	3600/3000	575	480	71	R406	71T34FH5033	*	20:1	\$233	74.0	0.7	14	240		
	1800/1500	230/460	200/400	71	R307	71T17FH5327	*	20:1	\$237	74.0	1.8/.9	15	240		
	1800/1500	575	480	71	R407	71T17FH5331	*	20:1	\$237	74.0	0.7	16	240		
	1200/1000	230/460	200/400	80	R308	80T11FH5377	*	20:1	\$372	72.0	1.9/.95	22	282		
<b>3/4-.55</b>	3600/3000	230/460	200/400	71	R309	71T34FH5302	*	20:1	\$245	74.0	2.4/1.2	16	240		
	3600/3000	575	480	71	R409	71T34FH5304	*	20:1	\$245	74.0	0.9	16	240		
	1800/1500	230/460	200/400	80	R310	80T17FH5326	*	20:1	\$258	74.0	2.5/1.25	21	282		
	1800/1500	575	480	80	R410	80T17FH5330	*	20:1	\$258	74.0	1.0	22	282		
	1200/1000	230/460	200/400	80	R311	80T11FH5378	*	20:1	\$400	72.0	2.7/1.35	25	282		
<b>1-.75</b>	3600/3000	230/460	200/400	80	R312	80T34FH5301	*	20:1	\$278	75.5	2.8/1.4	24	282		
	3600/3000	575	480	80	R412	80T34FH5305	*	20:1	\$278	75.5	1.1	24	282		
	1800/1500	230/460	200/400	80	R313	80T17FH5327	*	20:1	\$282	80.0	3.2/1.6	29	282		
	1800/1500	575	480	80	R413	80T17FH5331	*	20:1	\$282	80.0	1.4	28	282		
	1200/1000	230/460	200/400	90S	<b>R314A</b>	90ST11FH6376	*	20:1	\$486	82.5	3.3/1.7	36	326		
<b>1 1/2-1.1</b>	3600/3000	230/460	200/400	80	<b>R315</b>	80T34FH5302	*	20:1	\$287	84.0	4.0/2.0	30	282		
	3600/3000	575	480	80	<b>R415</b>	80T34FH5303	*	20:1	\$287	84.0	1.6	29	282		
	1800/1500	230/460	200/400	90S	<b>R316A</b>	90ST17FH6326	*	20:1	\$369	86.5	4.6/2.3	44	326		
	1800/1500	575	480	90S	<b>R416A</b>	90ST17FH6327	*	20:1	\$369	86.5	1.8	43	326		
	1200/1000	230/460	200/400	100L	<b>R317</b>	100LTFC6586	*	2:1	\$576	87.5	5.5/1.0	82	380		
<b>2-.50</b>	3600/3000	230/460	200/400	90S	<b>R318A</b>	90ST34FH6301	*	20:1	\$384	85.5	5.2/2.6	39	326		
	3600/3000	575	480	90S	<b>R418A</b>	90ST34FH6302	*	20:1	\$384	85.5	2.1	39	326		
	1800/1500	230/460	200/400	90L	<b>R319A</b>	90LT17FH6326	*	20:1	\$396	86.5	5.8/2.9	45	326		
	1800/1500	575	480	90L	<b>R419A</b>	90LT17FH6327	*	20:1	\$396	86.5	2.4	32	326		
	1200/1000	230/460	200/400	100L	<b>R320A</b>	100LTFC6576	*	2:1	\$619	88.5	7.6/3.8	90	380		

Blue shaded areas are Cast Iron Frames

† Requires nameplate modification

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

# Globetrotter® IEC (Metric) Frame, Three Phase

## Totally Enclosed, B3 Mounting, Rigid Base

Multiplier Symbol F4

GLOBETROTTER® - IEC

HP/ KW	RPM 60/50 HZ	60 HZ VOLTS	50 HZ VOLTS	IEC FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE†	LIST PRICE	NOM. EFF.	60 HZ F.L. AMPS	WEIGHT	IEC "L" DIM. (MM)	FOOT NOTES	B5/FF FLANGE
<b>3-2.2</b>	3600/3000	230/460	200/400	90L	<b>R321A</b>	90LT34FH6301	★	20:1	\$553	86.5	7.2/3.6	42	326	68	
	3600/3000	575	480	90L	<b>R421A</b>	90LT34FH6302	★	20:1	\$553	86.5	2.9	42	326	68	
	1800/1500	230/460	200/400	100L	<b>R322A</b>	100LTFC6526	★	20:1	\$600	89.5	9.0/4.5	84	380	68	
	1800/1500	575	480	100L	<b>R422A</b>	100LTFC6527	★	20:1	\$600	89.5	3.6	84	380	68	
	1200/1000	230/460	200/400	112M	<b>R323A</b>	112MTFC6576	★	20:1	\$874	89.5	9.0/4.5	100	400	68	
<b>4-3</b>	3600/3000	230/460	200/400	100L	<b>R351A</b>	100LTFC6501	★	20:1	\$640	87.5	9.2/4.6	71	380	68	
	3600/3000	575	480	100L	<b>R451A</b>	100LTFC6502	★	20:1	\$640	87.5	3.7	71	380	68	
	1800/1500	230/460	200/400	100L	<b>R352A</b>	100LTFC6536	★	20:1	\$651	89.5	11.0/5.5	84	380	68	
	1800/1500	575	480	100L	<b>R452A</b>	100LTFC6537	★	20:1	\$651	89.5	4.4	84	380	68	
	1200/1000	230/460	200/400	132S	<b>R353A</b>	132STFC6586	★	2:1	\$1,058	89.5	13.0/6.5	154	475	68	
<b>5 1/2-4</b>	3600/3000	230/460	200/400	112M	<b>R324A</b>	112MTFC6511	★	20:1	\$824	87.5	12.8/6.4	104	400	68	
	3600/3000	575	480	112M	<b>R424A</b>	112MTFC6512	★	20:1	\$824	87.5	5.1	104	400	68	
	1800/1500	230/460	200/400	112M	<b>R325A</b>	112MTFC6536	★	20:1	\$794	89.5	14.0/7.0	104	400	68	
	1800/1500	575	480	112M	<b>R425A</b>	112MTFC6537	★	20:1	\$794	89.5	5.6	104	400	68	
	1200/1000	230/460	200/400	132M	<b>R326A</b>	132MTFC6586	★	2:1	\$1,221	89.5	17/8.5	176	475	68	
<b>7 1/2-5.5</b>	3600/3000	230/460	200/400	132S	<b>R327A</b>	132STFC6501	★	20:1	\$1,033	90.2	17.6/8.8	152	475	68	
	3600/3000	575	480	132S	<b>R427</b>	132STFC6503	★	20:1	\$1,033	90.2	7.0	152	475		
	1800/1500	230/460	200/400	132S	<b>R328A</b>	132STFC6526	★	20:1	\$998	91.7	19.6/9.8	150	475	68	
	1800/1500	575	480	132S	<b>R428A</b>	132STFC6527	★	20:1	\$998	91.7	7.8	105	475	68	
	1200/1000	230/460	200/400	132M	<b>R329A</b>	132MTFC6587	★	2:1	\$1,469	91.0	23.4/11.7	180	475	68	
<b>10-7.5</b>	3600/3000	230/460	200/400	132S	<b>R330A</b>	132STFC6502	★	20:1	\$1,105	90.2	23.2/11.6	163	475	68	
	3600/3000	575	480	132S	<b>R430</b>	132STFC6504	★	20:1	\$1,105	90.2	9.3	163	475		
	1800/1500	230/460	200/400	132M	<b>R331A</b>	132MTFC6536	★	2:1	\$1,225	91.7	26.0/13.0	174	475	68	
	1800/1500	575	480	132M	<b>R431A</b>	132MTFC6537	★	2:1	\$1,225	91.7	10.4	174	475	68	
	1200/1000	230/460	200/400	160M	<b>R332A</b>	160MTFC6586	★	2:1	\$1,905	91.0	28.0/14.0	251	600	YD, 68	
<b>15-11</b>	3600/3000	230/460	200/400	160M	<b>R333A</b>	160MTFC6511	★	2:1	\$1,790	91.7	35.2/17.6	260	600	YD, 68	
	1800/1500	230/460	200/400	160M	<b>R334A</b>	160MTFC6536	★	10:1	\$1,756	92.4	37.8/18.9	264	600	YD, 68	
	1200/1000	230/460	200/400	160L	<b>R335A</b>	160LTFC6588	★	2:1	\$2,445	91.7	38.8/19.4	330	600	YD, 68	
<b>20-15</b>	3600/3000	230/460	200/400	160M	<b>R336A</b>	160MTFC6512	★	10:1	\$2,100	91.7	46.8/23.4	269	600	YD, 68	
	1800/1500	230/460	200/400	160L	<b>R337A</b>	160LTFC6538	★	2:1	\$2,214	93.0	47.0/23.5	311	600	YD, 68	
	1200/1000	230/460	200/400	180L	<b>R338A</b>	180LTFC6588	★	2:1	\$3,429	91.7	54.0/27.0	385	710	YD, 68	
<b>25-18.5</b>	3600/3000	230/460	200/400	160L	<b>R339A</b>	160LTFC6513	★	2:1	\$2,556	91.7	57.6/28.8	319	645	YD, 68	
	1800/1500	230/460	200/400	180M	<b>R340A</b>	180MTFC6536	★	20:1	\$2,814	93.6	59.2/29.6	381	670	YD, 68	
	1200/1000	230/460	200/400	200L	<b>R341A</b>	200LTFC6588	★	2:1	\$4,300	93.0	63.0/31.5	467	775	YD, 68	
<b>30-22</b>	3600/3000	230/460	200/400	180M	<b>R342A</b>	180MTFC6511	★	2:1	\$3,038	92.4	68.8/34.4	355	670	YD, 68	
	1800/1500	230/460	200/400	180L	<b>R343A</b>	180LTFC6538	★	20:1	\$3,163	93.6	69.2/34.6	427	710	YD, 68	
	1200/1000	230/460	200/400	200L	<b>R344A</b>	200LTFC6589	★	2:1	\$4,871	93.0	76/38	467	775	YD, 68	
<b>40-30</b>	3600/3000	230/460	200/400	200L	<b>R345A</b>	200LTFC6511	★	20:1	\$4,325	92.4	89.6/44.8	522	775	YD, 68	
	1800/1500	230/460	200/400	200L	<b>R346A</b>	200LTFC6538	★	2:1	\$4,656	94.1	95/47.5	531	775	YD, 68	
	1200/1000	230/460	200/400	225M	<b>R347A</b>	225MTFC6586	★	2:1	\$7,319	94.1	100/50	633	845	YD, 68	
<b>50-37</b>	3600/3000	230/460	200/400	200L	<b>R348A</b>	200LTFC6513	★	10:1	\$5,673	93.0	111.4/55.7	546	775	YD, 68	
	1800/1500	230/460	200/400	225S	<b>R349A</b>	225STFC6526	★	10:1	\$6,460	94.5	117.6/58.8	632	845	YD, 68	
	1200/1000	230/460	200/400	250M	<b>R350A</b>	250MTFC6586	★	2:1	\$10,259	94.1	125/62.5	655	930	YD, 68	

Blue shaded areas are Cast Iron Frames

† Requires nameplate modification

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements



# Globetrotter® IEC (Metric) Frame, Three Phase

## Totally Enclosed, Flange/Base Mounting

Multiplier Symbol F4

B3/B5 "FF" (D-Flange)

HP/ KW	RPM 60/50 HZ	60 HZ VOLTS	50 HZ VOLTS	IEC FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE†	LIST PRICE	NOM. EFF.	60 HZ F.L. AMPS	WEIGHT	IEC "L" DIM. (MM)	FOOT NOTES
<b>1/4-.18</b>	3600/3000	230/460	200/400	63D	R380	63T34FH5501	★	20:1	\$215	72.0	0.8/0.4	10	217	
	1800/1500	230/460	200/400	63D	R381	63T17FH5502	★	20:1	\$222	68.0	1.0/0.5	11	217	
	1200/1000	230/460	200/400	71D	R382	71T11FH5503	★	20:1	\$382	64.0	1.2/0.6	12	240	
<b>1/3-.25</b>	3600/3000	230/460	200/400	63D	R383	63T34FH5504	★	20:1	\$249	72.0	1.1/1.55	11	217	
	1800/1500	230/460	200/400	71D	R384	71T17FH5505	★	20:1	\$257	68.0	1.4/1.7	13	240	
	1200/1000	230/460	200/400	80D	R385	80T11FH5506	★	20:1	\$410	70.0	1.3/1.65	17	282	
<b>1/2-.37</b>	3600/3000	230/460	200/400	71D	R386	71T34FH5507	★	20:1	\$255	74.0	1.6/1.8	13	240	
	1800/1500	230/460	200/400	71D	R387	71T17FH5508	★	20:1	\$264	74.0	1.8/1.9	14	282	
	1200/1000	230/460	200/400	80D	R388	80T11FH5509	★	20:1	\$427	72.0	1.9/1.95	19	282	
<b>3/4-.55</b>	3600/3000	230/460	200/400	71D	R389	71T34FH5510	★	20:1	\$270	74.0	2.4/1.2	15	282	
	1800/1500	230/460	200/400	80D	R390	80T17FH5511	★	20:1	\$288	74.0	2.5/1.25	18	282	
	1200/1000	230/460	200/400	80D	R391	80T11FH5512	★	20:1	\$452	72.0	2.7/1.35	22	320	
<b>1-.75</b>	3600/3000	230/460	200/400	80D	R392	80T34FH5513	★	20:1	\$297	75.5	2.8/1.4	21	282	
	1800/1500	230/460	200/400	80D	R393	80T17FH5514	★	20:1	\$311	80.0	3.2/1.6	26	282	
	1200/1000	230/460	200/400	90SD	<b>R394A</b>	90ST11FH6515	★	20:1	\$556	82.5	3.3/1.7	35	320	68
<b>1 1/2-1.1</b>	3600/3000	230/460	200/400	80D	<b>R395</b>	80T34FH5516	★	20:1	\$339	84.0	4.0/2.0	30	282	
	1800/1500	230/460	200/400	90SD	<b>R396A</b>	90ST17FH6517	★	20:1	\$403	86.5	4.6/2.3	37	320	68
<b>2-1.5</b>	3600/3000	230/460	200/400	90SD	<b>R397A</b>	90ST34FH6518	★	20:1	\$439	85.5	5.2/2.6	33	320	68
	1800/1500	230/460	200/400	90LD	<b>R398A</b>	90LT17FH6519	★	20:1	\$451	86.5	5.8/2.9	38	320	68
<b>3-2.2</b>	3600/3000	230/460	200/400	90LD	<b>R399A</b>	90LT34FH6520	★	20:1	\$621	86.5	7.2/3.6	39	320	68

B3/B14 "FT" (C-Face)

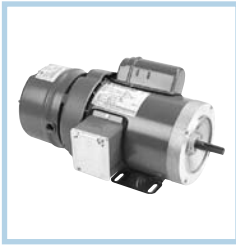
HP/ KW	RPM 60/50 HZ	60 HZ VOLTS	50 HZ VOLTS	IEC FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE†	LIST PRICE	NOM. EFF.	60 HZ F.L. AMPS	WEIGHT	IEC "L" DIM. (MM)	FOOT NOTES
<b>1/4-.18</b>	3600/3000	230/460	200/400	63C	R360	63T34FH5401	★	20:1	\$211	72.0	0.8/0.4	10	217	
	1800/1500	230/460	200/400	63C	R361	63T17FH5402	★	20:1	\$219	68.0	1.0/0.5	11	217	
	1200/1000	230/460	200/400	71C	R362	71T11FH5403	★	20:1	\$382	64.0	1.2/0.6	12	240	
<b>1/3-.25</b>	3600/3000	230/460	200/400	63C	R363	63T34FH5404	★	20:1	\$247	72.0	1.1/1.55	11	217	
	1800/1500	230/460	200/400	71C	R364	71T17FH5405	★	20:1	\$250	68.0	1.4/1.7	13	240	
	1200/1000	230/460	200/400	80C	R365	80T11FH5406	★	20:1	\$410	70.0	1.3/1.65	17	282	
<b>1/2-.37</b>	3600/3000	230/460	200/400	71C	R366	71T34FH5407	★	20:1	\$251	74.0	1.6/1.8	13	240	
	1800/1500	230/460	200/400	71C	R367	71T17FH5408	★	20:1	\$261	74.0	1.8/1.9	14	282	
	1200/1000	230/460	200/400	80C	R368	80T11FH5409	★	20:1	\$427	72.0	1.9/1.95	19	282	
<b>3/4-.55</b>	3600/3000	230/460	200/400	71C	R369	71T34FH5410	★	20:1	\$264	74.0	2.4/1.2	15	282	
	1800/1500	230/460	200/400	80C	R370	80T17FH5411	★	20:1	\$283	74.0	2.5/1.25	18	282	
	1200/1000	230/460	200/400	80C	R371	80T11FH5412	★	20:1	\$452	72.0	2.7/1.35	22	320	
<b>1-.75</b>	3600/3000	230/460	200/400	80C	R372	80T34FH5413	★	20:1	\$291	75.5	2.8/1.4	21	282	
	1800/1500	230/460	200/400	80C	R373	80T17FH5414	★	20:1	\$304	80.0	3.2/1.6	26	282	
	1200/1000	230/460	200/400	90SC	<b>R374A</b>	90ST11FH6415	★	20:1	\$556	82.5	3.3/1.7	35	320	68
<b>1 1/2-1.1</b>	3600/3000	230/460	200/400	80C	<b>R375</b>	80T34FH5416	★	20:1	\$331	84.0	4.0/2.0	30	282	
	1800/1500	230/460	200/400	90SC	<b>R376A</b>	90ST17FH6417	★	20:1	\$395	86.5	4.6/2.3	37	320	68
<b>2-1.5</b>	3600/3000	230/460	200/400	90SC	<b>R377A</b>	90ST34FH6418	★	20:1	\$430	85.5	5.2/2.6	33	320	68
	1800/1500	230/460	200/400	90LC	<b>R378A</b>	90LT17FH6419	★	20:1	\$439	86.5	5.8/2.9	38	320	68
<b>3-2.2</b>	3600/3000	230/460	200/400	90LC	<b>R379A</b>	90LT34FH6420	★	20:1	\$621	86.5	7.2/3.6	39	320	68

† Requires nameplate modification

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

# Brake Motors, Single Phase

## Totally Enclosed, C-Face Footed (Removable Base)



### Features:

- Fail-safe, spring set Stearns brake for holding or stopping
- Brake has manual wear adjustment for longer pad life
- Manual release lever on rear of brake housing
- Brake leads are terminated at the brake
- Vertical or horizontal mounting
- Brake coil voltage matches motor voltages, see mod section for other brake coils
- Ball bearings, mechanically locked on shaft end
- 1.15 Service Factor (1.0 Service Factor as noted)
- Nameplated 60/50 hertz at next lowest horsepower
- UL Recognized and CSA Certified

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	BRAKE RATING	FOOT NOTES
<b>1/3</b>	1800	115/208-230	56C	D400	56C17F5352	*	\$641	E5	6.6/3.1-3.3	33	16.20	3	2,6
<b>1/2</b>	1800	115/208-230	56C	D401	56C17F5353	*	\$707	E5	8.8/4.2-4.4	34	16.20	3	2,6
<b>3/4</b>	1800	115/208-230	56C	D402	56C17F5354	*	\$916	E5	11.0/5.4-5.5	38	16.70	6	2,6
<b>1</b>	1800	115/208-230	56C	D403	56C17F5355	*	\$974	E5	13.4/6.8-6.7	40	17.20	6	2,6
<b>1 1/2</b>	1800	115/208-230	56C	D404	56B17F5330	*	\$1,028	E5	15.2/8.2-7.6	50	19.04	10	1,6

# Brake Motors, Three Phase

## Totally Enclosed



### Features:



- **In addition to the Single Phase Features above:**
- Brake has manual wear adjustment up to 25 lb-ft. for longer pad life
- Brake leads routed through motor conduit box (TENV only)
- Vertical or horizontal mounting up to 15 lb-ft, see mod section for larger brakes
- CR<sup>200</sup> Corona resistant magnet wire (motor can be operated 10:1 variable torque)

## Rigid Base

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	BRAKE RATING	FOOT NOTES
<b>1/2</b>	1800	230/460	56	K456	5K49KN4573	*	\$820	E5	1.8/0.9	31	14.06	3	17,N
	1200	230/460	56	K526	5K49MN6369	*	\$1,131	E5	2.4/1.2	33	15.56	3	17,N
<b>3/4</b>	1800	230/460	56	K458	5K49PN4564	*	\$1,014	E5	2.5/1.25	36	14.56	6	17,N
<b>1</b>	1800	230/460	56	K459	5K49UN4569	*	\$1,173	E5	3.2/1.6	45	15.56	6	17,N
	1800	230/460	143T	K461	5K49UN4566	*	\$1,173	E5	3.2/1.6	47	16.00	6	17,N
<b>2</b>	1800	230/460	145T	K2045	5KE49WN4571	*	\$1,213	E5	5.6/2.8	44	18.00	10	17

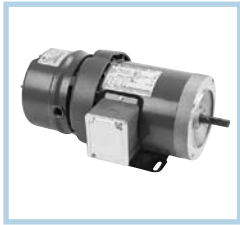
## C-Face Footless

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	BRAKE RATING	FOOT NOTES
<b>1/2</b>	1800	230/460	56C	K457	5K49KN4563	*	\$678	E5	1.8/0.9	31	14.06	3	d,N,17
<b>3/4</b>	1800	230/460	56C	K460	5K49PN4565	*	\$797	E5	2.5/1.25	37	14.56	6	d,N,17
<b>1</b>	1800	230/460	143TC	K462	5K49UN4567	*	\$1,192	E5	3.2/1.6	46	16.00	6	d,N,17
<b>1 1/2</b>	1800	208-230/460	56C	K1494	5K49RN4570	*	\$1,050	E5	5.0/2.5	40	16.56	10	d,17
<b>2</b>	1800	230/460	145TC	K2046	5KE49WN4572	*	\$1,103	E5	5.6/2.8	44	18.00	10	d,17

Continued on next page.

# Brake Motors, Three Phase

## C-Face Footed, C-Face Footed (Removable Base)



### Features:

- In addition to the Single Phase Features on previous page:
- Brake has manual wear adjustment up to 25 lb-ft. for longer pad life
- Brake leads routed through motor conduit box (TENV only)
- Vertical or horizontal mounting up to 15 lb-ft, see mod section for larger brakes
- CR<sup>200</sup> Corona resistant magnet wire (motor can be operated 10:1 variable torque and 2:1 constant torque)
- 1.15 Service Factor, 1.0 Service Factor where footnoted



BRAKE MOTORS

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	BRAKE RATING	FOOT NOTES
<b>1/3</b>	1800	208-230/460	56C	D450	56T17F5348	★	\$603	E5	1.8-1.6/0.8	30	15.73	3	6
	1200	208-230/460	56C	D451	56T11F5325		\$799	E5	1.9-2.2/1.1	30	15.73	3	6
<b>1/2</b>	1800	208-230/460	56C	D452	56T17F5349	★	\$678	E5	2.3-2.4/1.2	32	16.23	3	6
	1200	208-230/460	56C	D453	56T11F5326	★	\$997	E5	2.4-2.7/1.4	33	16.23	6	6
<b>3/4</b>	1800	208-230/460	56C	D454	56T17F5350	★	\$797	E5	2.9-3.0/1.5	33	16.23	6	6
	1200	208-230/460	56C	D455	56T11F5327		\$1,171	E5	3.1-3.2/1.6	37	16.73	6	6
<b>1</b>	1800	208-230/460	56C	D456	56T17F5357	★	\$946	E5	3.5-3.6/1.8	35	16.73	6	6
	1200	208-230/460	145TC	C400	145TTFR5382		\$1,255	E5	3.95-4.0/2.0	48	17.26	10	6
<b>1 1/2</b>	1800	208-230/460	56HC	D457	56T17F5358	★	\$1,050	E5	4.8-4.8/2.4	38	17.26	10	6
	1800	208-230/460	145TC	C401	145TTFR5360	★	\$1,050	E5	4.8-4.8/2.4	40	16.76	10	6
	1200	208-230/460	184TC	C402	184TTTL7084		\$1,399	E5	5.55-5.2/2.6	130	19.23	15	AL,F,N,82
<b>2</b>	1800	208-230/460	145TC	C403	145TTFR5359	★	\$1,103	E5	6.0-5.8/2.9	49	18.77	10	6
	1200	208-230/460	184TC	C404	184TTTL7083		\$1,460	E5	6.8-6.6/3.3	90	19.23	15	AL,F,N,82
<b>3</b>	1800	230/460	182TC	C405	182TTTL7034	★	\$1,460	E5	8.0/4.0	100	19.68	15	AL,F,N,82
<b>5</b>	1800	208-230/460	184TC	C406	184TTTL7041	★	\$1,974	E5	13.8-12.4/6.2	115	20.68	25	AL,F,N,17,82
<b>7 1/2</b>	1800	230/460	213TC	C407	213TTTL7034	★	\$2,592	E5	19.2/9.6	176	27.04	35	AL,N,17,82
<b>10</b>	1800	230/460	215TC	C408	215TTTL7050	★	\$3,240	E5	25.0/12.5	211	28.64	50	AL,N,17,82

# Farm Duty / Agriculture, High Torque

## Single Phase, TEFC



### Features:

- Ball bearings, shaft end mechanically locked on C-face models
- 1.15 Service Factor (except as noted)
- Capacitor start design for high starting torque
- Capacitor start/capacitor run design for higher efficiency, as noted
- Low temperature manual reset thermal protector
- Totally enclosed and fully gasketed construction for dirty environments
- Condensate drains
- Shaft slinger
- UL Recognized and CSA Certified

### Rigid Base

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/3	1800	115/230	56	F13E1	5KC42GN0051Y	★	\$286	F1	7.8/3.9	22	11.00	d
	1800	115/208-230	56	F101	56C17F5324	★	\$286	F1	6.6/3.1-3.3	24	11.82	
1/2	1800	115/208-230	56	F12E1	5KC46GN0050Y	★	\$327	F1	9.0/4.5-4.5	21	11.83	d
	1800	115/208-230	56	F102	56C17F5325	★	\$327	F1	8.8/4.2-4.4	25	11.82	
3/4	1800	115/230	56	F34E1	5KC46PN0062Y	★	\$390	F1	11.0/5.5	31	11.83	d,17
	1800	115/208-230	56	F103	56C17F5326	★	\$390	F1	11.0/5.4-5.5	29	12.32	
1	1800	115/208-230	143T	Z123	143TCFR5328	★	\$452	S1	13.4/6.8-6.7	31	12.87	
	1800	115/230	56	F10E1	5KC49TN0063Y	★	\$425	F1	13.2/6.6	37	12.96	d,17
	1800	115/208-230	56	F104	56C17F5327	★	\$425	F1	13.4/6.8-6.7	31	12.82	
1 1/2	1800	115/208-230	145T	F15E1	5KCR48WN0292Y	★	\$532	S1	14.5/7.1-7.3	44	14.07	ES,1
	1800	115/208-230	145T	Z118	145TBFR5328	★	\$532	S1	15.2/8.2-7.6	40	13.87	1
	1800	115/208-230	56H	F100	5KCR48WN0273Y	★	\$522	F1	14.5/7.1-7.3	44	13.82	d,ES,1
	1800	115/208-230	56H	F105	56B17F5307	★	\$522	F1	15.2/8.2-7.6	41	13.82	ES,1
2	1800	115/230	145T	Z128	145TBFR5341	★	\$591	S1	18.8/9.4	49	14.87	1
	1800	208-230	145T	C1904	5KCR49ZN0564Y	★	\$591	S1	9.2	49	14.63	d,1,17
	1800	115/230	182T	Z119	182TCFR7072	★	\$644	S1	26.8/13.4	61	15.53	d
	1800	115/230	182T	Z119A	182TCFW7072	★	\$644	S1	24.0/12.0	66	14.46	13
3	1800	230	184T	Z120	184TCFR7061	★	\$802	S1	17.0	92	18.03	d
	1800	230	184T	Z120A	184TBFW17045	★	\$802	S1	14.2	92	14.96	1,13
5	1800	230	184T	Z121A	184TBFW7737	★	\$976	S1	19.5	103	17.45	1,13
7 1/2	1800	230	215T	Z122	215TBFW7029	★	\$1,448	S1	30.0	138	21.48	1

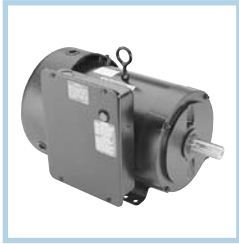
DEFINITE PURPOSE

### C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/3	1800	115/208-230	56C	F131	56C17F5358	★	\$349	F1	6.6/3.1-3.3	23	11.82	
1/2	1800	115/208-230	56C	F132	56C17F5912	★	\$390	F1	8.8/4.2-4.4	25	11.82	
3/4	1800	115/208-230	56C	F133	56C17F5913	★	\$454	F1	11/5.4-5.5	29	12.32	
1	1800	115/208-230	56C	F134	56C17F5914	★	\$488	F1	13.4/6.8-6.7	31	12.82	
1 1/2	1800	115/208-230	56HC	F135	56B17F5584	★	\$586	F1	15.2/8.2-7.6	41	13.82	1,5
2	1800	115/230	56HC	K319	56B17F5319	★	\$601	F1	18.8/9.4	50	14.82	1,5
3	1800	230	184TC	I314	184TBFR7041	★	\$901	S1	13.7	86	17.61	d,1
	1800	230	184TC	I314A	184TBFW7041	★	\$901	S1	12.8	86	14.96	1,13
5	1800	230	184TC	I315	184TBFR7034	★	\$1,075	S1	21.0	101	18.72	d,1
	1800	230	184TC	I315A	184TBFW7034	★	\$1,075	S1	19.5	101	17.45	1,13

# Farm Duty / Agriculture, Extra-High Torque Chore Motor®

## Single Phase, TEFC, Rigid Base



### Features:

- Class F insulation
- 1.15 Service Factor
- Ball bearings
- 300% and greater starting torque for hard-to-start applications
- Totally enclosed and fully gasketed for dirty environments
- 213TZ/215TZ models have 1-1/8" shaft, 182TZ model has 7/8" shaft
- Manual reset thermal protector
- Condensate drains
- Shaft slinger
- UL Recognized and CSA Certified

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
2	1800	115/230	182TZ	Z112	182TCFR9061	★	\$682	S1	25.6/12.8	63	15.31	d,2
	1800	115/230	182TZ	Z112A	182TCFW9061	★	\$682	S1	24.0/12.0	68	14.46	2,13
3	1800	230	184T	Z113	184TCFR9057	★	\$848	S1	18.0	80	16.81	d,2
	1800	230	184T	Z113A	184TCFW9057	★	\$848	S1	19.0	90	16.46	2,13
5	1800	208-230	184T	Z114	184TBFR7070	★	\$1,034	S1	24.0-22.5	95	17.36	d,1
	1800	208-230	184T	Z114A	184TBF7070	★	\$1,034	S1	23.8/21.8	98	14.46	1,13
	1800	230	213TZ	Z117	213TBF7027	★	\$1,150	S1	23.0	119	18.73	1
7 1/2	1800	230	215TZ	Z115	215TBF7028	★	\$1,535	S1	32.0	155	21.48	1
10	1800	230	215T	Z116	215TBF7044	★	\$1,911	S1	40.0	133	21.48	1,17

# Farm Duty / Agriculture, Auger Drive

## Single Phase, TEFC, N Flange



### Features:

- NEMA N flange mounting
- Manual reset thermal protector
- 48NZ: 1/2" dia. X 1.5" long shaft with flat
- 56NZ: 5/8" dia. X 2.06" long shaft with flat
- Extended (ODE) Shaft with flats for manual jogging
- F1201, F1202, F1203, F1204, and F1205 utilize a solid state electronic starting switch
- Ball bearings
- UL Recognized and CSA Certified

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/3	1800	115/230	48NY	HG646	5KH39QN9508Y	★	\$307	F1	5.3/2.7	22	11.07	N,3,83
	1800	115/208-230	56NY	C1291	5KC46GN0075U	★	\$256	F1	5.8/2.8-2.9	21	12.00	
	1800	115/230	48NZ	F1201	48C17F11005	★	\$340	F1	6.2/3.1	22	10.31	E,2
1/2	1800/1500	115/208-230	56NY	C1292	5KC46JN0076U	★	\$338	F1	8.4/4.0-4.2	23	12.00	2,49,50
	1800	115/208-230	48NZ	F1202	48C17F11006	★	\$370	F1	8.0/3.8-4.0	22	10.56	E,2
3/4	1800	115/208-230	56NY	C1293	5KCR49PN0077U	★	\$399	F1	8.4/4.5-4.2	31	13.13	ES,1
	1800	115/208-230	48NZ	F1203	48C17F11007	★	\$431	F1	10.8/5.3-5.4	20	11.31	E,2
1	1800/1500	115/208-230	56NY	C1294	5KCR49UN0079U	★	\$447	F1	10.8/6.0-5.4	40	14.51	ES,1,50,83
	1800	115/230	56NZ	F1204	56C17F15537	★	\$479	F1	13.4/6.7	36	13.38	E,2
1 1/2	1800	115/208-230	56NY	C1295	5KCR49WN0295U	★	\$539	F1	14.5/7.1-7.3	44	14.51	ES,1,83
	1800	115/230	56NZ	F1205	56B17F15516	★	\$576	F1	15.2/7.6	45	14.38	E,1



# Grain Stirring, Single Phase

## TEFC, Rigid Base



**Applications:** Definite purpose for grain stirring systems inside grain bins.

- Features:**
- 1.15 Service Factor
  - Fully gasketed construction to keep grain dust out
  - 7/8" diameter shaft
  - Fan/Fan guard on shaft end keeps grain dust out of motor
  - Durable powder coat paint
  - Manual reset thermal protector
  - Ball bearings
  - UL Recognized and CSA Certified

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1 1/2	1800	115/208-230	56HZ	X902	56B17F5324	★	\$457	F1	15.2/8.2-7.6	46	13.21	1,5

# Farm Duty, Capacitor Start

## TEAO, Rigid Base - High Efficiency



**Applications:** Designed for demanding agricultural belt drive fan applications such as poultry house fans and barn exhaust fans. **Catalog X912 is Totally Enclosed Air Over and must be mounted within the airstream for proper cooling.**

- Features:**
- Capacitor start/capacitor run design for higher efficiency
  - Suitable for belted loads
  - Ball bearings
  - Continuous duty
  - Automatic reset thermal protector
  - Fully gasketed
  - UL Recognized and CSA Certified

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/2	1725	115/230	56	X913	56B17T20	★	\$305	F1	4.6/2.3	22	10.47	
1	1725	115/230	56	X912	56B17T5303	★	\$399	F1	9.2/4.6	32	11.44	

# Farm Duty, PSC

## TEAO, Resilient Base - Thru Bolt - Variable Speed



**Applications:** Designed for demanding agricultural fan applications such as poultry houses and barn exhaust fans. Must be mounted within the airstream for proper cooling. Variable speed capabilities when used with a single phase speed control unit – NOT supplied by Marathon Electric. Super Variable speed motors, catalog X030, X031, and X032, are designed for lower temperature rise throughout a greater speed range.

- Features:**
- Ball bearings
  - Extended thru-bolts
  - Fully gasketed
  - 48/56 Frame mounting holes
  - Continuous duty
  - Automatic reset thermal protector
  - 1/2" dia. x 2-1/2" long shaft with two flats, 90° apart
  - UL Recognized and CSA Certified

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/4	1625	115/230	48YZ	X030	48A17T118	★	\$218	F1	3.6/1.8	20	11.06	
	1625	115/230	48YZ	X024	48A17T2002	★	\$178	F1	3.2/1.6	18	10.09	
	1075	115/230	48YZ	X027	48A11T2021	★	\$194	F1	3.2/1.6	15	10.09	
1/3	1625	115/230	48YZ	X031	48A17T237	★	\$241	F1	3.8/1.9	23	11.81	
	1625	115/230	48YZ	X025	48A17T2003	★	\$198	F1	4.4/2.2	18	10.09	
	1075	115/230	48YZ	X028	48A11T2022	★	\$210	F1	4.2/2.1	21	10.84	
1/2	1625	115/230	48YZ	X032	48A17T119	★	\$266	F1	5.4/2.7	24	11.81	
	1625	115/230	48YZ	X026	48A17T2004	★	\$215	F1	6.0/3.0	22	10.84	
	1075	115/230	48YZ	X029	48A11T2023	★	\$225	F1	6.4/3.2	22	10.84	

# Farm Duty / Agricultural

## Single Phase, TEAO, Resilient Base-Thru Bolt



### Features:

- Split Phase and PSC, as noted
- Ball bearings
- Extended thru-bolts on X1903, X1904, P250, and P251
- 48Z Frame has 1/2" dia. x 2-1/2" long shaft with two flats
- 56Z Frame has 1/2" dia. x 1-7/8" long with 1-5/8" flat
- 48Y & 48YZ have 48/56 Fr. Mounting holes
- 1.0 Service Factor (except as noted)
- Thermal protection, as noted
- Fully Gasketed

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/6</b>	1800	115	48	AUTO	HG196	5KH32GN42S	*	\$203	F1	3.5	13	8.94	3
	1800	115	48	NONE	H195	5KH32GN42	*	\$198	F1	3.5	13	8.94	3
	1200	115	48	AUTO	H198	5KH35MN132S	*	\$304	F1	3.7	17	9.57	3
	1200	115	48	NONE	H197	5KH35MN132	*	\$293	F1	3.7	17	9.57	3
<b>1/4</b>	1800	115	48Z	AUTO	X1903	5KH32FNA499S	*	\$158	F1	5.1	14	9.68	3,9
	1800	115/208-230	48	AUTO	H649	5KHC39QN9575T	*	\$329	F1	3.0/1.6-1.5	16	10.40	3
	1800	115	48	AUTO	H135	5KH32FN3122S	*	\$215	F1	5.1	15	8.94	3
	1800	115/230	48Z	AUTO	P250	5KCP35KNB057S	*	\$209	F1	3.6/1.8	16	10.57	93
	1800	115	48	NONE	H134	5KH32FN3122	*	\$204	F1	5.1	15	8.94	3
	1800	230	48	AUTO	H277	5KH33KN20S	*	\$240	F1	2.3	15	9.19	3
	1800/1200	115	48	NONE	H203	5KH36PN106	*	\$250	F1	4.2/2.7	20	10.00	3
	1200	115	56	AUTO	H137	5KH49MN6057S	*	\$358	F1	5.6	22	10.48	3
	1200	115	56	NONE	H136	5KH49MN6057	*	\$348	F1	5.6	23	10.48	3
<b>1/3</b>	1800	115	48Z	AUTO	X1904	5KH33JNA500S	*	\$178	F1	6.2	15	9.93	3,9
	1800	115	48	AUTO	H139	5KH33JN3121S	*	\$255	F1	6.2	18	9.19	3
	1800	115	48	NONE	HG138	5KH33JN3121	*	\$244	F1	6.2	18	9.19	3
	1800	115/208-230	48	AUTO	HG648	5KHC39QN9581T	*	\$356	F1	4.1/2.1-2.0	17	10.40	3
	1800	230	48	NONE	HG140	5KH36NN37	*	\$256	F1	2.5	18	10.00	3
	1800	230	48	AUTO	HG141	5KH36NN37S	*	\$261	F1	2.5	18	10.00	3
	1200	115/230	56	AUTO	HG699	5KH49PN6056S	*	\$416	F1	7.0/3.5	26	11.48	3
	1200	115/230	56	NONE	HG142	5KH49PN6056	*	\$404	F1	7.0/3.5	27	11.48	3
<b>1/2</b>	1800	115/208-230	56	AUTO	H247	5KH42JN0328S	*	\$242	F1	8.0/4.0-4.0	21	10.05	3
	1200	115/230	48Z	AUTO	P251	5KCP36NNB059S	*	\$269	F1	7.2/3.6	18	11.0	93
	1800	115/208-230	56	NONE	H276	5KH42JN0328	*	\$342	F1	8.0/4.0-4.0	21	10.05	3
	1800	115/208-230	56	AUTO	H647	5KHC39QN9584X	*	\$377	F1	5.2/2.7-2.6	19	10.05	3
	1800	115	56	NONE	HG143	5KH42GN0337	*	\$325	F1	8.0	21	10.05	3,19
	900	208-230	56Y	AUTO	F781	5KCP49UN9838S	*	\$312	F1	3.7-3.6	40	11.91	93
	900	208-230	56Y	AUTO	F780	5KCP49UN9837S	*	\$305	F1	3.7-3.6	40	11.91	93
<b>3/4</b>	1800	115/208-230	56	AUTO	C1314	5KCR49PN0492S	*	\$313	F1	7.0/3.8-3.5	30	11.38	2,50,55,111
	1800	115/208-230	56	AUTO	C1303	5KCR46NN0264T	*	\$400	F1	8.2/4.0-4.1	28	10.78	2,19
<b>1</b>	1800	115/208-230	56	AUTO	C1315	5KCR49SN0493S	*	\$367	F1	10.6/5.5-5.3	34	11.85	2,111
	1800	115/208-230	56	AUTO	C1302	5KCR49SN0042S	*	\$419	F1	9.6/5.2-4.8	35	11.91	2,50,55,111
<b>1 1/2</b>	1800	115/208-230	56	AUTO	C1909	5KCR49ZN0785S	*	\$431	F1	14.0/7.2-7.0	49	13.96	2,50,55,111

DEFINITE PURPOSE

## Crop Dryer, Single Phase

### Dripproof/Air Over, Rigid Base

**Applications:** Crop dryers with air over/fan on shaft designs.

- Features:**
- Double sealed ball bearings
  - Continuous duty
  - Class F insulation system
  - Thermostats for thermal overload protection (auto reset protector on Z304)
  - 34" long leads for ease of installation
  - Keyed shafts with 1/4"-20 UNC tapped hole in end
  - Capacitors included, shipped loose on catalog Z307 and Z308, mounted on all other models
  - Extra nameplate included, loose, for remote mounting

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>3-4.5</b>	3600	230	145TZ	AUTO	Z304	145TBDR5309	★	\$611	S1	13.0-19.0	43	13.74	1
<b>3-5</b>	3600	230	182TZ	TSTAT	Z309	182TCDR7013		\$734	S1	15.8-25.3	67	15.00	2
<b>5-7.5</b>	3600	230	184TZ	TSTAT	Z305	184TCDR7615	★	\$894	S1	27.0-36.3	73	14.50	d,2
	3600	230	184TZ	TSTAT	Z305A	184TCDW7615	★	\$894	S1	27.2-35.0	98	15.88	2,13
<b>7-10</b>	3600	230	184TZ	TSTAT	Z307	184TBDR7009	★	\$1,126	S1	28.0-42.0	95	16.00	d,1
	3600	230	184TZ	TSTAT	Z307A	184TBDW7009	★	\$1,126	S1	31.0-42.0	95	15.88	1,13
<b>7.5-10</b>	3600	230	184TZ	TSTAT	Z313	184TBDR7324		\$1,126	S1	30.0-42.0	89	16.43	1,13
<b>7.5-10.5</b>	3600	230	215TZ	TSTAT	Z314	215TCDW7012		\$1,316	S1	37.0-49.5	139	19.16	2,F
<b>7-9</b>	3600	230	184TZ	TSTAT	Z306	184TCDR7617	★	\$1,009	S1	36.0-45.0	83	15.50	d,2
	3600	230	184TZ	TSTAT	Z306A	184TCDW7617	★	\$1,009	S1	36.5-46.0	83	14.88	2,13
<b>10-15</b>	3600	230	215TZ	TSTAT	Z315	215TBDW7013		\$1,515	S1	39.5-61.5	159	20.42	1,F
	3600	230	215TZ	TSTAT	Z308	215TCDW7003	★	\$1,515	S1	46.0-71.0	135	18.16	2,F

DEFINITE PURPOSE

## Crop Dryer, Three Phase

### Dripproof/Air Over, Rigid Base

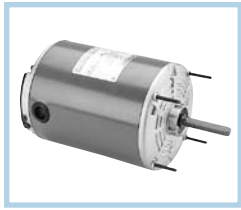
**Applications:** Crop dryers with air over/fan on shaft designs where three phase power is available.

- Features:**
- Ball bearings
  - Thermostats for thermal overload protection
  - 34" long leads exit elbow connector in bracket
  - Keyed shafts with 1/4"-20 UNC tapped hole in end
  - Extra nameplate included, loose, for remote mounting
  - Continuous duty
  - Class F insulation

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS @ LOW SPEED	WEIGHT	"C" DIM.	FOOT NOTES
<b>5-7</b>	3600	208-220/440	184TZ	Y302	184TTDR7611	★	\$749	E6	17.0-17.0/8.5	64	13.71	d
<b>7-10</b>	3600	208-220/440	184TZ	Y303	184TTDR7612	★	\$794	E6	28.0-27.0/13.5	69	14.22	d
	3600	208-220/440	184TZ	Y1303	184TTDW7612	★	\$794	E6	20.0-19.2/9.6	69	16.91	13
<b>10-15</b>	3600	208-220/440	215TZ	Y304	215TTDW7301	★	\$1,048	E6	28-26.1/13.1	95	17.41	

## Farm Duty / Agricultural

### Single Phase, TEAO, Direct Drive-Thru Bolt



#### Features:

- Economical split phase design
- X909 has 1/2" diameter x 1.5" long shaft with flat
- X910 and X911 have 1/2" dia. X 2-1/2" long shaft with two flats, 90 degrees apart
- Thermal protection, as noted
- Ball bearings
- Fully gasketed

#### Single Speed

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/4	1800	115	48Y	MANUAL	X909	48S17T2004	*	\$156	F1	4.0	10	7.62	3,59

#### Two Speed

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/4	1800/1200	115	48YZ	AUTO	X910	48S17T366	*	\$202	F1	4.1/2.5	17	11.09	3,59
1/3	1800/1200	115	48YZ	AUTO	X911	48S17T365	*	\$254	F1	5.3/2.9	18	11.34	3,59

## Incubator/Hatchery Vent Fan

### Single Phase (PSC), TEAO, Thru-Bolt

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/3	1800	115/230	48Z	P239	5KCP33GNA471S	*	\$352	F1	4.0/2.0	15	10.18	

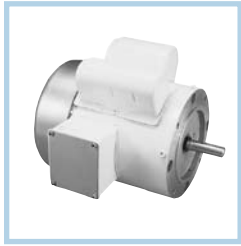
## Center Pivot Irrigation

### Three Phase, TEFC, C-Face footless

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1	1800/1500	460/380	56C	K1476	5K49JN4051T	*	\$386	F1	2.0/2.1	23	12.08	50
1 1/2	1800/1500	460/380	56C	K1438	5K49NN4052T	*	\$436	F1	2.4/2.7	29	12.08	50

# PowerWash™ XT Washdown Duty, Single Phase

## White Epoxy, Totally Enclosed



### Features:

- Encapsulated electronic starting switch is impervious to moisture
- Capacitor start induction run design for high starting torque unless otherwise noted
- Class F insulation
- 1.15 Service Factor
- Double sealed ball bearings
- 303 Stainless steel shaft with spring loaded contact seals in each endshield
- Stainless steel conduit box cover, nameplate, fan guard (TEFC) and hardware
- Cast oversized conduit box with high temperature Nitrile gaskets and threaded entrance
- Plugged drain holes in each endshield for all angle mounting
- Internal corrosion resistant coatings on frame, base, endshields, rotor and stator
- USDA-approved, white epoxy RUST-OLEUM® paint
- UL Recognized, CSA Certified and CE Mark

### C-Face Footless

HP	RPM	VOLTS	FRAME	CAT NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/3	1800	115/208-230	56C	N531	56C17W5326	★	\$456	F3	6.4/3.2-3.2	23	10.69	
1/2	3600	115/208-230	56C	N532	56C34W5302	★	\$456	F3	7.6/4.0-3.8	27	10.69	
	1800	115/208-230	56C	N523	56C17W5327	★	\$468	F3	8.8/4.4-4.4	26	11.19	
3/4	3600	115/208-230	56C	N524	56C34W5303	★	\$459	F3	10.0/5.2-5.0	30	11.69	
	1800	115/208-230	56C	N525	56C17W5328	★	\$541	F3	10.8/5.4-5.4	31	11.69	
1	3600	115/208-230	56C	N526	56C34W5304	★	\$461	F3	12.0/6.2-6.0	32	12.19	
	1800	115/208-230	56C	N527	56C17W5329	★	\$613	F3	12.8/6.4-6.4	33	12.19	
1 1/2	3600	115/208-230	56C	N528	56C34W5305	★	\$680	F3	17.0/8.5-8.5	50	12.69	
	1800	115/208-230	56C	N529	56C17W5330	★	\$785	F3	19.0/9.5-9.5	23	13.69	

### C-Face Footed (Rigid Base)

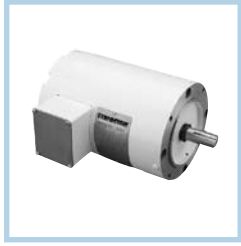
HP	RPM	VOLTS	FRAME	CAT NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/3	1800	115/208-230	56C	N557	56C17W5331	★	\$459	F3	6.4/3.2-3.2	25	10.69	
1/2	3600	115/208-230	56C	N558	56C34W5307	★	\$459	F3	7.6/4.0-3.8	26	10.69	
	1800	115/208-230	56C	N559	56C17W5332	★	\$474	F3	8.8/4.4-4.4	27	11.19	
3/4	3600	115/208-230	56C	N540	56C34W5308	★	\$463	F3	10.0/5.2-5.0	31	11.69	
	1800	115/208-230	56C	C1286	5KC47NN0723	★	\$538	F3	10.8/5.6-5.4	31	12.19	d,19
	1800	115/208-230	56C	N541	56C17W5333	★	\$538	F3	10.8/5.4-5.4	31	11.69	
1	3600	115/208-230	56C	C1287	5KC49NN2514	★	\$465	F3	12/6.2-6.0	33	12.19	d,19
	3600	115/208-230	56C	N542	56C34W5309	★	\$465	F3	12.0/6.2-6.0	33	12.19	
	1800	115/208-230	56C	N543	56C17W5334	★	\$618	F3	12.8/6.4-6.4	34	12.19	
1 1/2	3600	115/208-230	56C	N544	56C34W5310	★	\$682	F3	17.0/8.5-8.5	36	12.69	
	1800	115/208-230	56HC	N545	56C17W5335	★	\$789	F3	19.0/9.5-9.5	43	13.69	d,5

WASHDOWN DUTY



# PowerWash™ XT Washdown Duty, Three Phase

## White Epoxy, Totally Enclosed



### Features:

**IP55**



- 10:1 Variable torque, Constant torque speed range as listed below
- MAX GUARD® Class F insulation system
- 1.15 Service Factor on sinewave, 1.0 Service Factor on IGBT power
- Double sealed ball bearings
- 303 Stainless steel shaft with spring loaded contact seals in each endshield (Drive end only on TENV motors)
- Stainless steel conduit box cover, nameplate, fan guard (TEFC only) and hardware
- Cast oversized conduit box with high temperature nitrile gaskets and threaded entrance
- Plugged drain holes in each endshield for all angle mounting
- Internal corrosion resistant coatings on frame, base, endshields, rotor and stator
- USDA-approved, white epoxy RUST-OLEUM® paint
- UL Recognized, CSA Certified and CE Mark

### Rigid Base

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/3</b>	1800	208-230/460	56	E286	5KS49HN4595	★	10:1	\$450	F3	75.5	1.2-1.6/8	24	9.68	ES,N,20,50
<b>1/2</b>	1800	208-230/460	56	EG287	5KS49MN4608	★	10:1	\$462	F3	77.0	1.7-1.8/9	27	10.18	d,ES,N,19,50
	1800	208-230/460	56	N322	56T17W5344		10:1	\$462	F3	74.0	2.0-2.0/1.0	25	10.81	V
<b>3/4</b>	1800	208-230/460	56	N320	56T17W5340	★	10:1	\$492	F3	77.0	2.8-2.8/1.4	25	10.81	V
<b>1</b>	1800	208-230/460	56	N309	56T17V5346	★	1000:1	\$517	F3	80.0	3.2-3.2/1.6	35	11.18	N
	1800	208-230/460	143T	N310	143TTVR5329	★	1000:1	\$564	F3	82.5	3.2-3.2/1.6	35	11.62	N
	1200	208-230/460	145T	K2051	5KE49UN8405	★	10:1	\$760	F3	80.0	4.2-3.6/1.8	41	13.25	d,50
	1200	208-230/460	145T	<b>N323</b>	145TTWR6076	★	10:1	\$884	F3	82.5	3.6-4.2/2.1	45	13.25	V
<b>1 1/2</b>	1800	208-230/460	145T	N321	145TTWR4029	★	10:1	\$567	F3	84.0	4.2-4.2/2.1	39	13.12	d,V
	1800	208-230/460	145T	<b>N321A</b>	145TTWR6029	★	10:1	\$659	F3	86.5	5.2-4.4/2.2	51	12.75	
<b>2</b>	1800	208-230/460	145T	<b>K2053</b>	5KE48WN8366	★	10:1	\$704	F3	84.0	6.0-5.6/2.8	46	13.75	d,50
	1800	208-230/460	145T	N312	145TTWR4027	★	10:1	\$704	F3	84.0	6.5-6.2/3.1	46	13.25	d,V
	1800	208-230/460	145T	<b>N312A</b>	145TTWR6027	★	10:1	\$819	F3	86.5	6.0-5.6/2.8	46	13.75	V
<b>3</b>	1800	208-230/460	56HZ	N313	56T17W5328	★	10:1	\$707	F3	82.5	8.6-8.6/4.3	49	14.25	d,V,Z,5,17
	1800	208-230/460	182T	N1314	182TTWW4027	★	10:1	\$931	F3	87.5	8.2-8.2/4.1	64	13.97	d,V
	1800	208-230/460	182T	<b>N314B</b>	182TTWW6027	★	10:1	\$1,083	F3	89.5	8.2-8.2/4.1	69	13.96	V
<b>5</b>	3600	208-230/460	184T	<b>N315A</b>	184TTWW6004		10:1	\$1,363	F3	88.5	13.2-12.0/6.0	75	14.46	V
	1800	208-230/460	184T	N1316	184TTWW4027	★	10:1	\$1,064	F3	87.5	13.0-13.0/6.5	73	14.97	d,V
	1800	208-230/460	184T	<b>N316B</b>	184TTWW6027	★	10:1	\$1,238	F3	89.5	13.0-13.0/6.5	85	14.96	V
<b>7 1/2</b>	3600	208-230/460	184T	<b>N317A</b>	184TTWW6003		10:1	\$1,720	F3	89.5	17.6-16.8/8.4	87	15.96	V
	1800	208-230/460	213T	N318	213TTWR4027	★	10:1	\$1,329	F3	89.5	20.4-20.4/10.2	140	17.71	d,V
	1800	208-230/460	213T	<b>N318A</b>	213TTWR6027	★	10:1	\$1,545	F3	91.7	20.4-20.4/10.2	131	17.21	V
<b>10</b>	1800	208-230/460	215T	<b>N319A</b>	215TTWR6027	★	10:1	\$1,849	F3	91.7	26.0-26.0/13.0	165	18.71	V

\* Requires nameplate modification

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

Continued on next page.

WASHDOWN DUTY

# PowerWash™ XT Washdown Duty, Three Phase

White Epoxy, Totally Enclosed

## C-Face Footless

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/4</b>	1800	208-230/460	56C	N640	56T17V5326	★	1000:1	<b>\$436</b>	F3	68.0	1.1-1.1/55	21	9.56	N
<b>1/3</b>	1800	208-230/460	56C	N641	56T17V5327	★	1000:1	<b>\$463</b>	F3	72.0	1.3-1.3/65	21	9.56	N
<b>1/2</b>	1800	208-230/460	56C	N642	56T17V5328	★	1000:1	<b>\$478</b>	F3	78.5	1.8-1.8/9	25	10.06	N
<b>3/4</b>	3600	208-230/460	56C	N643	56T34V5301	★	1000:1	<b>\$482</b>	F3	75.5	2.6-2.4/1.2	50	10.06	N
	1800	208-230/460	56C	N644	56T17V5329	★	1000:1	<b>\$553</b>	F3	80.0	2.5-2.5/1.25	30	10.56	N
<b>1</b>	3600	208-230/460	56C	N645	56T34V5302	★	1000:1	<b>\$563</b>	F3	78.5	2.8-2.6/1.3	34	11.56	N
	1800	208-230/460	56C	N646	56T17V5330	★	1000:1	<b>\$576</b>	F3	80.0	3.2-3.2/1.6	34	11.56	N
	1800	208-230/460	145TC	EG297	5KS49UN8379	★	10:1	<b>\$576</b>	F3	82.5	3.2-3.2/1.6	39	12.12	d,ES,N,50
	1800	208-230/460	143TC	N647	143TTVR5326	★	1000:1	<b>\$576</b>	F3	80.0	3.2-3.2/1.6	35	11.75	N
<b>1 1/2</b>	3600	208-230/460	56C	N648	56T34V5303	★	1000:1	<b>\$597</b>	F3	80.0	4.2-3.8/1.9	42	12.56	N
	1800	208-230/460	56C	K2068	5KE49TN4592	★	10:1	<b>\$591</b>	F3	84.0	4.4-5.3/2.65	40	13.19	50
	1800	208-230/460	56C	N649	56T17V5331	★	1000:1	<b>\$601</b>	F3	84.0	4.2-4.2/2.1	46	13.06	N
	1800	208-230/460	143TC	N650	143TTVR5327	★	1000:1	<b>\$601</b>	F3	84.0	4.2-4.2/2.1	47	13.25	N
	1800	208-230/460	145TC	<b>K2055</b>	5KE49TN8378	★	10:1	<b>\$605</b>	F3	84.0	4.4-5.3/2.65	39	13.25	50
<b>2</b>	3600	208-230/460	56C	N651	56T34V5304	★	1000:1	<b>\$683</b>	F3	82.5	5.6-5.0/2.5	48	13.06	N
	3600	208-230/460	145TC	N652	145TTVR5301	★	1000:1	<b>\$683</b>	F3	82.5	5.6-5.0/2.5	42	13.25	N
	1800	208-230/460	56C	N653	56T17V5326	★	10:1	<b>\$700</b>	F3	81.5	6.2-6.2/3.1	38	12.69	V
	1800	208-230/460	56C	K2066	5KE48WN4593	★	10:1	<b>\$637</b>	F3	84.0	6.0-5.6/2.8	44	13.69	50
	1800	208-230/460	145TC	<b>K2056</b>	5KE48WN8364	★	10:1	<b>\$651</b>	F3	84.0	6.0-5.6/2.8	45	13.75	50
	1800	208-230/460	145TC	N654	145TTWR5326	★	10:1	<b>\$704</b>	F3	81.5	6.2-6.2/3.1	38	12.75	d,V
	1800	208-230/460	145TC	<b>N654A</b>	145TTWR4326	★	10:1	<b>\$753</b>	F3	84.0	6.0-5.6/2.8	47	13.75	V
<b>3</b>	3600	208-230/460	145TC	N655	145TTWR5301	★	10:1	<b>\$839</b>	F3	80.0	8.4-7.6/3.8	36	13.25	d,V
	3600	208-230/460	145TC	<b>N655A</b>	145TTWR4301	★	10:1	<b>\$897</b>	F3	85.5	8.4-7.6/3.8	48	13.75	V
	1800	208-230/460	182TC	N1656	182TTWW7026	★	10:1	<b>\$922</b>	F3	82.5	9.0-9.0/4.5	65	14.47	d,V
	1800	208-230/460	182TC	<b>N656B</b>	182TTWW4028	★	10:1	<b>\$987</b>	F3	87.5	8.4-7.6/3.8	81	14.47	V
<b>5</b>	3600	208-230/460	184TC	N1657	184TTWW7001	★	10:1	<b>\$1,170</b>	F3	85.5	13.6-12.4/6.2	90	14.47	d,V
	3600	208-230/460	184TC	<b>N657B</b>	184TTWW4002	★	10:1	<b>\$1,251</b>	F3	87.5	13.2-12.0/6.0	75	14.47	V
	1800	208-230/460	184TC	N1658	184TTWW7026	★	10:1	<b>\$1,039</b>	F3	82.5	14.0-13.2/6.6	73	14.47	d,V
	1800	208-230/460	184TC	<b>N658B</b>	184TTWW4028	★	10:1	<b>\$1,118</b>	F3	87.5	13.0-13.0/6.5	95	14.97	V
<b>7 1/2</b>	3600	208-230/460	213TC	<b>N659A</b>	213TTWR4001	★	10:1	<b>\$1,551</b>	F3	88.5	17.6-16.8/8.4	102	17.47	V
	1800	208-230/460	213TC	<b>N660</b>	213TTWR7026	★	10:1	<b>\$1,328</b>	F3	89.5	24.0-22.0/11.0	125	17.71	d,V
<b>10</b>	1800	208-230/460	215TC	<b>N661</b>	215TTWR7026	★	10:1	<b>\$1,507</b>	F3	89.5	29.0-28.0/14.0	150	18.71	d,V

\* Requires nameplate modification

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

Continued on next page.

WASHDOWN DUTY

# PowerWash™ XT Washdown Duty, Three Phase

White Epoxy, Totally Enclosed

C-Face Footed (Rigid Base)

Same features as shown on page 102

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	CT SPEED RANGE*	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/4</b>	1800	208-230/460	56C	N564	56T17V5332	*	1000:1	\$438	F3	68.0	1.1-1.1/55	24	10.08	N
	1800	575	56C	N620	56T17W5333	*	10:1	\$438	F3	68.0	0.44	23	10.69	V
<b>1/3</b>	1800	208-230/460	56C	N628	56T17W5334	*	10:1	\$481	F3	68.0	1.7-1.7/85	23	10.69	
	1800	575	56C	N621	56T17W5335	*	10:1	\$481	F3	68.0	0.68	20	10.69	V
<b>1/2</b>	3600	208-230/460	56C	N566	56T34V5305	*	1000:1	\$437	F3	76.0	1.7-1.6/8	27	10.58	N
	1800	208-230/460	56C	N567	56T17V5336	*	1000:1	\$490	F3	78.5	1.8-1.8/9	26	10.06	N
	1800	575	56C	N622	56T17V5337	*	1000:1	\$490	F3	78.5	0.8	25	10.08	N
	1200	208-230/460	56C	N568	56T11V5376	*	1000:1	\$611	F3	77.0	2.3-2.3/1.15	23	11.56	N
<b>3/4</b>	3600	208-230/460	56C	N569	56T34V5306	*	1000:1	\$480	F3	75.5	2.6-2.4/1.2	50	10.08	N
	1800	208-230/460	56C	N599	56T17V5338	*	1000:1	\$567	F3	80.0	2.5-2.5/1.25	31	10.56	N
	1800	575	56C	EG307	5KS49PN4602	*	10:1	\$567	F3	81.0	1.0	31	10.58	d
	1800	575	56C	N623	56T17W5339	*	10:1	\$567	F3	77.0	1.1	31	11.19	V
	1200	208-230/460	56C	N600	56T11V5377	*	1000:1	\$665	F3	78.5	3.0-3.0/1.5	25	13.06	N,5
<b>1</b>	3600	208-230/460	56C	N601	56T34V5307	*	1000:1	\$561	F3	78.5	2.8-2.6/1.3	35	11.56	N
	1800	208-230/460	56C	N602	56T17V5340	*	1000:1	\$591	F3	80.0	3.2-3.2/1.6	35	11.58	N
	1800	575	56C	EG311	5KS49UN4598	*	10:1	\$591	F3	82.5	1.2	39	12.08	d
	1800	575	56C	N627	56T17W5341	*	10:1	\$591	F3	77.0	1.5	29	11.69	V
	1800	208-230/460	143TC	N626	143TTWR4028	*	10:1	\$594	F3	82.5	3.2-3.1/1.55	30	13.25	V
	1800	208-230/460	143TC	<b>N626A</b>	143TTWR6028	*	10:1	\$691	F3	85.5	3.2-3.1/1.55	35	12.75	V
	1200	208-230/460	56HC	N604	56T11W5377	*	10:1	\$713	F3	78.5	4.0-4.0/2.0	36	13.06	5,V
<b>1 1/2</b>	3600	208-230/460	56C	N605	56T34V5308	*	1000:1	\$620	F3	80.0	4.2-3.8/1.9	43	12.56	N
	1800	208-230/460	56C	K2067	5KE49TN4597	*	10:1	\$617	F3	84.0	5.3-4.4/2.2	40	13.19	d
	1800	208-230/460	56C	N606	56T17V5342	*	1000:1	\$617	F3	84.0	4.2-4.2/2.1	47	13.06	N
	1800	208-230/460	145TC	K2058	5KE49TN8390	*	10:1	\$617	F3	84.0	5.3-4.4/2.2	40	13.25	d
	1800	208-230/460	145TC	N607	145TTVR5326	*	1000:1	\$617	F3	84.0	4.2-4.2/2.1	48	13.12	N
	1800	575	145TC	K2059	5KE49TN8398	*	10:1	\$617	F3	84.0	1.8	42	13.25	d
	1800	575	145TC	N629	145TTVR5030	*	1000:1	\$617	F3	84.0	1.8	42	13.12	N
	1200	208-230/460	56HC	N608	56T11W5378	*	10:1	\$753	F3	77.0	5.7-5.7/2.85	50	14.18	5,V
<b>2</b>	3600	208-230/460	56HC	N609	56T34V5309	*	1000:1	\$688	F3	82.5	5.6-5.0/2.5	49	13.06	N,V,5,17
	3600	208-230/460	145TC	K2060	5KE49TN8389	*	10:1	\$763	F3	84.0	5.6-5.2/2.6	42	13.25	d
	3600	208-230/460	145TC	N610	145TTVR5302	*	1000:1	\$763	F3	84.0	5.6-5.0/2.5	49	13.12	N
	1800	208-230/460	56C	K2065	5KE48WN4586	*	10:1	\$708	F3	84.0	6.5-6.0/2.8	46	13.69	d
	1800	208-230/460	56C	N611	56T17W5327	*	10:1	\$708	F3	81.5	6.2-6.2/3.1	38	12.69	V
	1800	575	145TC	K2062	5KE48WN8388	*	10:1	\$768	F3	84.0	2.3	46	13.75	d
	1800	575	145TC	<b>N630</b>	145TTWR6033	*	10:1	\$775	F3	86.5	2.3	46	13.75	V
	1800	208-230/460	145TC	N612	145TTWR4026	*	10:1	\$768	F3	84.0	6.0-5.6/2.8	50	13.75	d,V
	1800	208-230/460	145TC	<b>N612A</b>	145TTWR6026	*	10:1	\$955	F3	86.5	6.0-5.6/2.8	46	13.75	V
<b>3</b>	3600	230/460	145TC	<b>K2063</b>	5KE49WN8383	*	10:1	\$905	F3	85.5	7.6/3.8	46	13.75	d
	3600	208-230/460	145TC	N613	145TTWR4001	*	10:1	\$905	F3	85.5	8.4-7.6/3.8	46	13.75	d,V
	3600	208-230/460	145TC	<b>N613A</b>	145TTWR6001	*	10:1	\$1,126	F3	89.5	8.4-7.6/3.8	46	13.75	V
	1800	208-230/460	182TC	N1614	182TTWW4026	*	10:1	\$1,009	F3	87.5	8.2-8.2/4.1	65	14.47	d,V
	1800	208-230/460	182TC	<b>N614B</b>	182TTWW6026	*	10:1	\$1,255	F3	89.5	8.6-7.8/3.9	80	14.47	V
<b>5</b>	3600	208-230/460	184TC	N1615	184TTWW4001	*	10:1	\$1,263	F3	87.5	13.4-12.2/6.1	78	14.47	d,V
	3600	208-230/460	184TC	<b>N615B</b>	184TTWW6001	*	10:1	\$1,570	F3	88.5	13.2-12.0/6.0	79	14.47	V
	1800	208-230/460	184TC	N1616	184TTWW4026	*	10:1	\$1,141	F3	87.5	13.6-12.8/6.4	74	14.97	d,V
	1800	208-230/460	184TC	<b>N616B</b>	184TTWW6026	*	10:1	\$1,417	F3	88.5	13.6-12.8/6.4	84	14.97	V
<b>7 1/2</b>	3600	208-230/460	213TC	N617	213TTWR4002	*	10:1	\$1,568	F3	88.5	17.6-16.8/8.4	138	17.47	d,V
	3600	208-230/460	213TC	<b>N617A</b>	213TTWR6002	*	10:1	\$1,950	F3	89.5	18.6-17.8/8.9	140	17.47	V
	1800	208-230/460	213TC	N618	213TTWR4026	*	10:1	\$1,446	F3	89.5	24.0-22.0/11.0	130	17.21	d,V
	1800	208-230/460	213TC	<b>N618A</b>	213TTWR6026	*	10:1	\$1,797	F3	91.7	23.4-21.4/10.7	135	17.71	V
<b>10</b>	1800	208-230/460	215TC	N619	215TTWR4026	*	10:1	\$1,644	F3	89.5	29.0-28.0/14.0	140	18.71	d,V
	1800	208-230/460	215TC	<b>N619A</b>	215TTWR6026	*	10:1	\$2,043	F3	91.7	27.6-26.6/13.3	145	18.71	V

\* Requires nameplate modification

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

WASHDOWN DUTY

# PowerWash™ SXT Washdown Duty, Three Phase

## All Stainless Steel, Totally Enclosed



### Features:

- Suitable for use on VFD 10:1 Variable torque, 10:1 (TEFC) or 1000:1 (TENV) Constant Torque
- MAX GUARD® Class F insulation system
- 1.15 Service Factor on sinewave, 1.0 Service Factor on IGBT power
- Double sealed ball bearings
- 303 stainless steel shaft with spring loaded contact seals in each end. (Drive end only on TENV)
- 300 Series Stainless steel external construction: frame, endshields, conduit box, mounting base and hardware for superior corrosion resistance
- Internal corrosion resistant coatings on rotor and heavy polyester varnish on the stator
- 100% Paint-free construction
- One way condensation drains in each endshield and conduit box for all angle mounting
- Nitrile Buna - N gaskets and seals on conduit box, through bolts and endshields
- Rated 60/50 hertz, 190/380 volt at next lower horsepower
- Nameplate information laser etched on frame
- UL Recognized, CSA Certified and CE Mark

### C-Face Footless

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/3</b>	1800	208-230/460	56C	N430	56T17VD5329	★	\$512	F3	78.5	1.2-1.3/65	30	9.40	N
<b>1/2</b>	1800	208-230/460	56C	N431	56T17VD5330	★	\$525	F3	81.5	1.5-1.6/1.8	30	9.40	N
<b>3/4</b>	1800	208-230/460	56C	N432	56T17VD5331	★	\$610	F3	82.5	2.4-2.3/1.15	30	9.40	N
<b>1</b>	1800	208-230/460	56C	N433	56T17WD5330	★	\$636	F3	82.5	3.2-3/1.5	39	13.40	
	1800	208-230/460	143TC	<b>N434</b>	143TTWD5527	★	\$659	F3	82.5	3.2-3/1.5	43	13.87	
<b>1 1/2</b>	1800	208-230/460	56C	N435	56T17WD5331	★	\$664	F3	84.0	5.8-5.4/4.4	45	13.40	
	<b>2</b>	1800	208-230/460	56C	N437	56T17WD5332	★	\$758	F3	84.0	6.2-5.8/2.9	49	13.40
		1800	208-230/460	145TC	<b>N438</b>	145TTWD5528	★	\$784	F3	84.0	6.2-5.8/2.9	50	13.87

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

### C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/3</b>	3600	208-230/460	56C	N450	56T34VD5301		\$461	F3	74.0	1.1-1.0/0.5	20	9.40	N
	1800	208-230/460	56C	N410	56T17VD5326	★	\$515	F3	78.5	1.2-1.3/65	30	9.40	N
<b>1/2</b>	3600	208-230/460	56C	N451	56T34VD5302	★	\$471	F3	77.0	1.6-1.5/75	25	9.40	N
	1800	208-230/460	56C	N411	56T17VD5328	★	\$530	F3	81.5	1.5-1.6/8	31	9.40	N
<b>3/4</b>	3600	208-230/460	56C	N452	56T34VD5303	★	\$517	F3	78.5	2.2-2.0/1.0	31	9.40	N
	1800	208-230/460	56C	N412	56T17VD5327	★	\$613	F3	82.5	2.4-2.3/1.15	40	12.06	N
<b>1</b>	3600	208-230/460	56C	N453	56T34WD5301		\$608	F3	80.0	2.9-2.6/1.3	25	13.40	5
	3600	208-230/460	143TC	<b>N454</b>	143TTWD4001	★	\$817	F3	80.0	2.9-2.6/1.3	40	13.87	
	1800	208-230/460	56C	N413	56T17WD5326	★	\$638	F3	82.5	3.2-3.0/1.5	45	12.13	5
	1800	208-230/460	143TC	N414	143TTWD4026	★	\$690	F3	82.5	3.2-3.0/1.5	45	13.69	d
	1800	208-230/460	143TC	<b>N414A</b>	143TTWD6026	★	\$858	F3	85.5	3.2-3.0/1.5	48	13.62	
<b>1 1/2</b>	3600	208-230/460	56C	N455	56T34WD5302	★	\$670	F3	82.5	4.2-3.8/1.9	46	13.40	5
	3600	208-230/460	143TC	N456	143TTWD4002	★	\$726	F3	82.5	4.2-3.8/1.9	48	13.87	d
	3600	208-230/460	143TC	<b>N456A</b>	143TTWD6002	★	\$902	F3	84.0	4.2-3.8/1.9	48	13.62	
	1800	208-230/460	56C	N415	56T17WD5329	★	\$666	F3	84.0	5.0-4.8/2.4	40	14.25	5
<b>2</b>	3600	208-230/460	56C	N457	56T34WD5303	★	\$743	F3	84.0	5.6-5.0/2.5	47	13.40	5
	3600	208-230/460	145TC	<b>N458A</b>	145TTWD6001		\$1,081	F3	85.5	5.6-5.0/2.5	50	13.62	
	1800	208-230/460	56C	N417	56T17WD5328	★	\$760	F3	84.0	6.2-5.8/2.9	50	14.25	5
	1800	208-230/460	145TC	N418	145TTWD4029	★	\$852	F3	84.0	6.2-5.8/2.9	50	13.69	d
	1800	208-230/460	145TC	<b>N418A</b>	145TTWD6029	★	\$1,059	F3	86.5	6.2-5.8/2.9	53	13.62	

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

# PowerWash™ SXT-Plus Washdown Duty, Three Phase

## Stainless/BISSC, Totally Enclosed



### Features:

- Suitable for use on VFD, 10:1 Variable torque, 10:1 (TEFC) or 1000:1 (TENV) Constant Torque, 1.0 Service Factor
- MAX GUARD® Class F insulation system
- 1.15 Service Factor on sinewave, 1.0 Service Factor on IGBT power
- Double sealed ball bearings with moisture resistant, high temperature grease
- 300 Series Stainless steel external construction: frame, endshields, shaft, conduit box, mounting base and hardware for superior corrosion resistance
- Internal corrosion resistant coatings on rotor and heavy polyester varnish on the stator
- 100% Paint-free construction
- Viton® o-rings, shaft seals, and gaskets for superior sealing against chemicals
- Hydrophic breather in OP endshield and conduit box equalize air pressure
- Nameplate information laser etched on frame
- BISSC Certified for baking industry
- UL Recognized, CSA Certified and CE Mark



### C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/2</b>	1800	208-230/460	56HC	N400	56T17V5347	★	\$966	F3	78.0	1.6-1.6/8	37	12.54	d,N,5
<b>3/4</b>	1800	208-230/460	56HC	N401	56T17V5348	★	\$1,003	F3	83.6	2.4-2.3/1.15	42	11.71	N,5
<b>1</b>	1800	208-230/460	56HC	N402	56T17V5349	★	\$1,026	F3	82.0	2.4-2.3/1.15	47	13.54	N,5
	1800	208-230/460	143TC	N403	143TTVD5326	★	\$1,026	F3	82.0	3.1-3.0/1.5	50	13.61	d,N,5
<b>1 1/2</b>	1800	208-230/460	145TC	<b>N404A</b>	145TTWD6026		\$1,200	F3	86.5	4.5-4.4/2.2	52	14.25	
<b>2</b>	1800	208-230/460	145TC	N405	145TTWD4027		\$1,282	F3	84.0	6.0-6.0/3.0	54	14.25	d
	1800	208-230/460	145TC	<b>N405A</b>	145TTWD6027	★	\$1,491	F3	86.5	5.6-5.6/2.8	50	13.69	
<b>3</b>	1800	208-230/460	182TC	<b>N406A</b>	182TTWD6031	★	\$1,791	F3	89.5	8.8-8.2/4.1	85	14.77	
<b>5</b>	1800	208-230/460	184TC	N407	184TTWD14031	★	\$1,757	F3	87.5	13.8-13.0/6.5	63	15.37	d
	1800	208-230/460	184TC	<b>N407A</b>	184TTWD6031		\$2,043	F3	89.5	13.8-13.0/6.5	96	15.27	
<b>7 1/2</b>	1800	208-230/460	213TC	N408	213TTWD14031	★	\$2,628	F3	89.5	24.0-22.0/11.0	165	18.69	d
	1800	208-230/460	213TC	<b>N408A</b>	213TTWD6031		\$3,056	F3	91.7	22.4-20.4/10.8	160	18.69	
<b>10</b>	1800	208-230/460	215TC	N409	215TTWD14031	★	\$2,707	F3	89.5	29.0-28.0/14.0	167	18.69	d
	1800	208-230/460	215TC	<b>N409A</b>	215TTWD6031		\$3,148	F3	91.7	28.0-26.0/13.0	173	18.69	

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

## PowerWash™ Coupler Brakes

PowerWash™ coupler brakes are specifically designed for use with PowerWash™ Washdown Duty motors. Rated for NEMA 4X/IP55, these brakes are suitable for applications with high moisture or pressure washdown. Painted with a special white epoxy food-safe paint, these brakes are **BISSC Certified**.

ENCLOSURE NEMA 4X/IP55	CAT. NO.	KIT NO.	STOCK	LIST PRICE	MULT. SYMB.	WEIGHT
<b>3 ft. lb.</b>	A909	KIT 909	★	\$755	S4	12
<b>6 ft. lb.</b>	A910	KIT 910	★	\$816	S4	12
<b>10 ft. lb.</b>	A911	KIT 911	★	\$897	S4	12



# Carbonator Pump, Split Phase

## Dripproof

- Features:**
- Ball bearings (except as noted)
  - 1.0 Service Factor (except as noted)
  - Completely interchangeable with OEM units
  - Automatic reset thermal protector
  - UL Recognized and CSA Certified

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/4</b>	1800/1500	208-240	48Y	H451	5KH32GNB813X	★	\$167	F1	2.3-2.4	14	7.69	12,68
	1800/1500	115/230	48Z	H344	5KH36KNB633X	★	\$139	F1	4.3/2.2	16	8.75	12
	1800	115	48Y	4725	5KH32DN5587X	★	\$139	F1	5.0	13	7.69	4,12
	1800	115	48Y	HG679	5KH32DN5597X	★	\$132	F1	5.0	11	7.69	4,82
<b>1/3</b>	1800/1500	100-120/200-240	48Y	HG681	5KH32GNB814X	★	\$174	F1	5.5-5.6/2.7-2.8	14	7.69	68,82
	1800/1500	100-120/200-240	48Y	H683	5KH33GNA444X	★	\$196	F1	5.5-5.6/2.7-2.8	14	7.94	12
	1800/1500	100-120/200-240	48Y	4805	5KH32GNB811X	★	\$182	F1	5.5-5.6/2.7-2.8	14	7.69	12,68
	1800/1500	220-240	48Y	HG450	5KH32GNB812X	★	\$176	F1	2.7-2.7	14	7.69	12,68
	1800	115	48Y	4406	5KH32FN5586X	★	\$152	F1	5.6	14	7.69	4,12,18
	1800	115	48Y	HG680	5KH32FN5598X	★	\$146	F1	5.6	14	7.69	4,18,82
	1800	115	48Y	H682	5KH32ENA443X	★	\$176	F1	6.1	13	7.69	12
<b>1/2</b>	1800	115	48Y	H926	5KH36MNB637X	★	\$227	F1	7.2	17	8.75	12
	1800/1500	100-120/200-240	48Y	H684	5KH36MNA445X	★	\$227	F1	7.1-7.2/3.4-3.6	17	8.75	12,68
<b>3/4</b>	1800	115/230	48Y	HG714	5KH37PNA479X	★	\$302	F1	10.4/5.2	19	9.15	12

## Double Shaft

HP	RPM	VOLTS	FRAME NO.	CAT. NO.	MODEL	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/3</b>	1800/1500	100-120/200-240	48Y	H712	5KH32GNB815X	★	\$186	F1	5.5-5.6/2.7-2.8	14	9.47	68

# Sump Pump, Split Phase

## Dripproof

- Features:**
- Sleeve bearings
  - 1.0 Service Factor
  - Float switch & cord set
  - Completely interchangeable with OEM units
  - Automatic reset thermal protector
  - UL Recognized and CSA Certified

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/3</b>	1800	115	48K	H641	5KH39CN5501X	★	\$162	F1	5.7	12	9.6	4,15
	1800	115	48K	H642	5KH39CN5504X	★	\$162	F1	5.7	12	9.6	4,16
<b>1/2</b>	1800	115	48K	H950	5KH140DFK1X	★	\$162	F1	5.0	11	7.9	4,15
	1800	115	48K	H951	5KH140DFK17X	★	\$212	F1	7.3	17	8.7	4,15

# Jet Pump, Two-Compartment

## Single Phase, Dripproof



### Features:

- Two-compartment design for easy servicing
- 50° C Ambient
- Fixed CW rotation, viewed opposite shaft end
- UL Recognized and CSA Certified

### C-Face Footless, 56C/56J

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/3</b>	3600	115	56C	H439	5KH39EN2552X	★	\$189	F1	1.75	6.2	18	11.03	3
	3600	115	56J	H440	5KH39EN2506X	★	\$192	F1	1.75	6.2	18	11.54	3
	3600	115	56J	H685	5KH39EN2887X	★	\$200	F1	1.75	6.2	13	11.54	3
	3600	115/230	56C	C1081	5KC39EN2553X	★	\$209	F1	1.75	6.2/3.1	15	11.03	2
	3600	115/230	56J	C1087	5KC39EN2500X	★	\$215	F1	1.75	6.2/3.1	15	11.54	2
<b>1/2</b>	3600	115/230	56C	C1082	5KC39HN2554X	★	\$219	F1	1.6	8.2/4.1	15	11.03	2
	3600	115/230	56J	C1088	5KC39HN2501X	★	\$224	F1	1.6	8.2/4.1	15	11.54	2
	3600	115/230	56J	C1462	5KC39HN2888X	★	\$230	F1	1.6	8.2/4.1	16	11.54	4,12,18
<b>3/4</b>	3600	115/230	56C	C1083	5KC33MN2555X	★	\$243	F1	1.5	11.6/5.8	17	12.01	4,18,82
	3600	115/230	56J	C1089	5KC33MN2502X	★	\$249	F1	1.5	11.6/5.8	17	12.42	2
	3600	115/230	56J	C1463	5KC33MN2889X	★	\$256	F1	1.5	11.6/5.8	19	12.42	2
<b>1</b>	3600	115/230	56C	C1084	5KC39SN2810X	★	\$278	F1	1.4	14.2/7.1	25	13.47	2
	3600	115/230	56J	C1090	5KC39SN2812X	★	\$285	F1	1.4	14.2/7.1	26	13.98	2
	3600	115/230	56J	C1464	5KC39SN2890X	★	\$289	F1	1.4	14.2/7.1	26	13.98	2
<b>1 1/2</b>	3600	115/230	56C	C1085	5KCR39SN2557X	★	\$370	F1	1.3	15.8/7.9	21	13.47	1
	3600	115/230	56J	C1091	5KCR39SN2504X	★	\$377	F1	1.3	15.8/7.9	21	13.98	1
	3600	115/230	56J	C1465	5KCR39SN2891X	★	\$382	F1	1.3	15.8/7.9	21	13.98	1
<b>2</b>	3600	115/230	56C	C1086	5KCR39UN2558X	★	\$452	F1	1.2	19.2/9.6	23	13.47	1
	3600	115/230	56J	C1092	5KCR39UN2505X	★	\$458	F1	1.2	19.2/9.6	23	13.98	1
	3600	115/230	56J	C1466	5KCR39UN2892X	★	\$463	F1	1.2	19.2/9.6	23	13.98	1

### Square Flange

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/3</b>	3600	115/230	56Y	C1168	5KC36GN2507X	★	\$215	F1	1.95	6.4/3.2	15	11.59	2
<b>1/2</b>	3600	115/230	56Y	C1169	5KC36MN2508X	★	\$216	F1	1.9	10.8/5.4	17	11.59	2
<b>3/4</b>	3600	115/230	56Y	C1170	5KC38PN2509X	★	\$227	F1	1.65	12.6/6.3	19	12.59	2
<b>1</b>	3600	115/230	56Y	C1171	5KC38SN2510X	★	\$256	F1	1.65	16.4/8.2	21	12.59	2
<b>1 1/2</b>	3600	230	56Y	C1172	5KCR39UN2511X	★	\$293	F1	1.5	7.6	23	13.12	1
<b>2</b>	3600	230	56Y	C1173	5KCR39UN2512X	★	\$390	F1	1.3	8.7	23	13.12	1

# Centrifugal Pump (Jet Pump)

## Single Phase, Dripproof



### Features:

- Service Factor, as noted
- Double sealed ball bearings, mechanically locked on shaft end
- Capacitor start design for high starting torque
- Capacitor start/capacitor run design for higher efficiency, as noted
- Fixed CW rotation, viewed opposite shaft end
- Automatic reset thermal protector
- 56C = carbon steel shaft with key, drip cover not included, see Accessories Section
- 56J = 416 stainless steel threaded shaft with slinger, drip cover included
- UL Recognized and CSA Certified

### C-Face Footless, 56C/56J

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/3	3600	115/230	56C	J1025	5KC37FN71X	★	\$154	F1	1.75	6.4/3.2	14	10.71	
	3600	115/230	56J	C329	5KC37FN65X	★	\$162	F1	1.75	6.4/3.2	14	11.22	15
	1800/1500	115/208-230	56J	C683	5KC36LN84X	★	\$350	F1	1.35	6.0/3.2-3.0	17	10.82	15,50
1/2	3600	115/230	56C	C330	5KC36JN268X	★	\$169	F1	1.6	7.6/3.8	18	10.31	
	3600	115/230	56J	C331	5KC36JN269X	★	\$176	F1	1.6	7.6/3.8	18	10.82	15
3/4	3600	115/230	56C	C332	5KC39NN50X	★	\$199	F1	1.5	11.2/5.6	19	11.84	
	3600	115/230	56J	C333	5KC39QN3219X	★	\$206	F1	1.5	11.2/5.6	18	12.40	15
	2900	110/220	56C	CG732	5KC39RN114T	★	\$342	F1	1.5	9.8/4.9	28	12.60	50
1	3600	115/230	56C	C334	5KC39RN44X	★	\$223	F1	1.4	13.2/6.6	22	12.59	
	3600	115/230	56J	C335	5KC39RN45X	★	\$229	F1	1.4	13.2/6.6	22	13.14	15
1 1/2	3600	115/208-230	56C	C336	5KC49NN2140X	★	\$304	F1	1.3	18.4/9.8-9.2	27	11.38	
	3600	115/230	56J	C337	5KC49NN2167X	★	\$323	F1	1.3	18.4/9.2	26	11.89	
2	3600	115/208-230	56C	C338	5KC49TN2141X	★	\$377	F1	1.2	21.2/11.5-10.6	38	13.22	
	3600	115/208-230	56J	C339	5KC49TN2170X	★	\$396	F1	1.2	21.2/10.6	36	13.73	
3	3600	115/230	56C	C340	5KCR48TN2142T	★	\$699	F1	1.15	29.4/14.7	38	12.66	1
	3600	115/230	56J	C341	5KCR48TN2174T	★	\$631	F1	1.15	29.4/14.7	38	13.17	1,15

### C-Face Footed (Rigid Base), 56J

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/3	3600	115/208-230	56J	J054	56C34D2118	★	\$167	F1	1.75	5.6/2.7-2.8	15	10.94	
1/2	3600	115/208-230	56J	J055	56C34D2119	★	\$181	F1	1.6	7.4/3.5-3.7	17	11.19	
3/4	3600	115/208-230	56J	J056	56C34D2120	★	\$211	F1	1.5	9.8/4.8-4.9	20	11.44	
1	3600	115/208-230	56J	J057	56C34D2121	★	\$234	F1	1.4	12.0/6.2-6.0	23	12.44	
1 1/2	3600	115/208-230	56J	J058	56B34D2033	★	\$327	F1	1.3	13.4/7.4-6.7	23	12.43	1
2	3600	115/208-230	56J	J059	56B34D5341	★	\$402	F1	1.2	18.2/9.8-9.1	33	11.94	1

## Single Phase, Totally Enclosed



### Features:

- Service Factor, as noted
- Double sealed ball bearings, mechanically locked on shaft end
- Capacitor start design for high starting torque
- Capacitor start/capacitor run design for higher efficiency, as noted
- Reversible CW rotation, viewed opposite shaft end
- Automatic reset thermal protector
- 56C = carbon steel shaft with key, drip cover not included, see Accessories Section
- 56J = 416 stainless steel threaded shaft with slinger, drip cover included
- UL Recognized and CSA Certified

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/3	3600	115/230	56J	C1336	5KC33FN4180X	★	\$282	F1	1.0	5.6/2.8	14	11.87	
1/2	3600	115/230	56J	C465	5KC39QN3218X	★	\$350	F1	1.15	7.4/3.7	19	11.9	15
3/4	3600	115/230	56C	C847	5KC37NN115X	★	\$373	F1	1.0	9.8/4.9	22	11.76	
1	3600	115/230	56J	C352	5KC49NN2135X	★	\$402	F1	1.15	13.0/6.5	27	12.95	15
2	3600	115/230	56J	C878	5KCR49TN2164T	★	\$604	F1	1.0	17.8/8.9	38	14.79	ES,1,15

Catalog numbers in ( ) are GE catalog numbers that are no longer valid and have been replaced by MEMC/GE catalog numbers.

# Centrifugal Pump (Jet Pump)

## Three Phase, Dripproof



### Features:

- Service Factor, as noted
- Double sealed ball bearings, mechanically locked on shaft end
- Continuous Duty
- Nameplated 60/50 hertz, 190/380 volts at next lower HP, as noted
- 56C = carbon steel shaft with key
- 56J = 416 stainless steel threaded shaft with slinger
- UL Recognized and CSA Certified
- Drip cover not included, see Accessories section

### C-Face Footless, 56C/56J

HP	RPM	VOLTS	FRAME	CAT NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/3	3600	208-230/460	56C	KG215	5K35FN55	★	\$177	F1	1.75	1.5-1.8/0.9	14	9.90	68
	3600	208-230/460	56J	K748	5K35FN101	★	\$178	F1	1.75	1.5-1.8/0.9	14	10.40	48
1/2	3600	208-230/460	56C	K216	5K36JN57	★	\$201	F1	1.6	2.0-2.0/1.0	16	10.31	48,68
	3600	208-230/460	56J	K217	5K36JN56	★	\$202	F1	1.6	2.0-2.0/1.0	16	10.82	48,68
	1800	208-230/460	56J	K553	5K42HN4139	★	\$397	F1	1.25	2.3-2.2/1.1	18	10.41	48
3/4	3600	208-230/460	56C	K218	5K37MN37	★	\$242	F1	1.5	2.6-2.6/1.3	18	10.70	48,68
	3600	208-230/460	56J	KG219	5K37MN38	★	\$243	F1	1.5	2.6-2.6/1.3	17	11.22	48,68
	1800	208-230/460	56J	K555	5K46KN4141	★	\$467	F1	1.25	3.3-3.0/1.5	24	11.24	48
1	3600	208-230/460	56C	K220	5K38PN47	★	\$275	F1	1.4	3.3-3.2/1.6	19	11.30	48,68
	3600	208-230/460	56J	K221	5K38PN48	★	\$276	F1	1.4	3.3-3.2/1.6	19	11.82	48,68
	1800	208-230/460	56J	K750	5K46MN4144	★	\$483	F1	1.15	3.6-3.8/1.9	27	11.24	48
1 1/2	3600	208-230/460	56C	K222	5K46KN2173	★	\$335	F1	1.3	5.0-4.8/2.4	24	10.73	48,68
	3600	208-230/460	56J	K223	5K46KN2172	★	\$336	F1	1.3	5.0-4.8/2.4	23	11.24	48,68
	1800	208-230/460	56J	K751	5K49PN4121	★	\$533	F1	1.15	5.8-5.6/2.8	28	11.84	48
2	3600	208-230/460	56C	K224	5K49NN2180	★	\$392	F1	1.2	6.0-6.0/3.0	27	11.33	48,68
	3600	208-230/460	56J	K225	5K49NN2178	★	\$392	F1	1.2	6.0-6.0/3.0	27	11.84	48,68
3	3600	208-230/460	56C	K226	5K48TN2182	★	\$440	F1	1.15	8.9-8.2/4.1	38	12.61	48,68
	3600	208-230/460	56J	K227	5K48TN2181	★	\$443	F1	1.15	8.9-8.2/4.1	38	13.12	48,68



### Features:

- Service Factor, as noted
- Double sealed ball bearings, mechanically locked on shaft end
- Continuous Duty
- Nameplated 60/50 hertz, 190/380 volts at next lower HP, as noted
- 416 stainless steel threaded shaft with slinger, drip cover included
- UL Recognized and CSA Certified
- Drip cover not included, see Accessories section

### C-Face Footed (Rigid Base), 56J

HP	RPM	VOLTS	FRAME	CAT NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/3	3600	208-230/460	56J	J047	56T34D5368		\$183	F1	1.75	1.2-1.1/1.55	21	10.43	68
1/2	3600	208-230/460	56J	J048	56T34D5367	★	\$206	F1	1.6	2.1-2.2/1.1	21	10.93	68
3/4	3600	208-230/460	56J	J049	56T34D5365	★	\$247	F1	1.5	2.6-2.6/1.3	22	11.22	68
1	3600	208-230/460	56J	J050	56T34D5366	★	\$281	F1	1.4	3.7-3.7/1.85	23	10.93	68
1 1/2	3600	208-230/460	56J	J051	56T34D5369	★	\$341	F1	1.15	5.0-4.8/2.4	23	11.24	68
2	3600	208-230/460	56J	J052	56T34D5370	★	\$399	F1	1.2	6.4-6.2/3.1	30	10.93	68
3	3600	208-230/460	56J	J053	56T34D5371	★	\$447	F1	1.15	8.9-8.4/4.2	32	11.93	68

# Centrifugal Pump (Jet Pump)

## Three Phase, Totally Enclosed



### Features:

- Service Factor, as noted
- Double sealed ball bearings, mechanically locked on shaft end
- Continuous Duty
- Nameplated 60/50 hertz, 190/380 volts at next lower HP, as noted
- 56C = carbon steel shaft with key, drip cover not included, see Accessories Section
- 56J = 416 stainless steel threaded shaft with slinger, drip cover included
- UL Recognized, CSA Certified, and CE Mark
- Drip cover not included, see Accessories section

## C-Face Footless, 56C/56J

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/3</b>	3600	208-230/460	56C	P101	56T34T5306	★	\$205	F1	1.35	1.7-2.0/1.0	18	9.94	N,68
<b>1/2</b>	3600	208-230/460	56C	P102	56T34F5321	★	\$228	F1	1.15	2.1-2.2/1.1	21	11.82	4,12,18
	3600	200-230/460	56J	K230	5K35JN47	★	\$331	F1	1.6	2.1-2.0/1.0	17	11.40	4,18,82
	1800	208-230/460	56J	K550	5K42HN4133	★	\$402	F1	1.0	2.3-2.2/1.1	22	11.52	48
<b>3/4</b>	3600	208-230/460	56C	P103	56T34F5322	★	\$270	F1	1.15	3.0-3.2/1.6	22	11.82	68
	3600	208-230/460	56J	KG232	5K36MN339	★	\$366	F1	1.5	2.6-2.6/1.3	16	11.90	48
<b>1</b>	3600	208-230/460	56C	P104	56T34F5323	★	\$303	F1	1.15	3.7-3.7/1.85	24	11.82	68
	3600	200-230/460	56J	KG234	5K38RN49	★	\$420	F1	1.4	3.2-3.0/1.5	25	12.90	48
<b>1 1/2</b>	3600	208-230/460	56C	P105	56T34F5324	★	\$352	F1	1.15	4.6/2.3	25	11.82	68
	3600	200-230/460	56J	KG236	5K49PN2330	★	\$452	F1	1.3	4.8-4.2/2.1	31	12.95	48
<b>2</b>	3600	208-230/460	56C	P106	56T34F5325	★	\$408	F1	1.15	6.0-6.0/3.0	29	12.32	68
	3600	200-230/460	56J	K238	5K49SN2184	★	\$513	F1	1.2	5.8-5.4/2.7	35	13.48	48
<b>3</b>	3600	208-230/460	56C	P107	56T34F5326	★	\$443	F1	1.15	8.4-7.6/3.8	38	13.32	68
	3600	208-230/460	56J	K240	5K49ZN2190	★	\$621	F1	1.0	8.0/4.0	49	14.79	48



### Features:

- Service Factor, as noted
- Double sealed ball bearings, mechanically locked on shaft end
- Continuous Duty
- Nameplated 60/50 hertz, 190/380 volts at next lower HP, as noted
- Threaded shaft with slinger
- UL Recognized, CSA Certified, and CE Mark
- Drip cover not included, see Accessories section

## C-Face Footed (Removable Base), 56J

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/3</b>	3600	208-230/460	56J	J060	56T34T5308		\$225	F1	1.15	1.7-2.0/1.0	21	10.44	N,68
<b>1/2</b>	3600	208-230/460	56J	J061	56T34F5342	★	\$247	F1	1.15	2.1-2.2/1.1	23	12.32	68
<b>3/4</b>	3600	208-230/460	56J	J062	56T34F5343	★	\$290	F1	1.15	3.0-3.2/1.6	23	12.32	68
<b>1</b>	3600	208-230/460	56J	J063	56T34F5344	★	\$323	F1	1.15	3.7-3.7/1.85	25	12.32	68
<b>1 1/2</b>	3600	208-230/460	56J	J064	56T34F5345	★	\$388	F1	1.15	4.7-4.6/2.3	26	12.32	68
<b>2</b>	3600	208-230/460	56J	J065	56T34F5346	★	\$445	F1	1.15	6.0-6.0/3.0	30	12.82	68
<b>3</b>	3600	208-230/460	56J	J066	56T34F5347	★	\$507	F1	1.15	8.4-7.6/3.8	40	13.82	68



## Close-Coupled Pump, JM

### Single Phase, DripProof



**Applications:** Close-coupled pumps where the pump impeller is mounted directly on the motor shaft in environments that are relatively clean and dry.

- Features:**
- NEMA JM pump shaft dimensions
  - Ball bearings, mechanically locked on shaft end
  - Capacitor start design for high starting torque
  - Capacitor start / capacitor run design for higher efficiency, as noted
  - Continuous duty
  - 1.15 Service Factor
  - UL Recognized and CSA Certified

### C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1	1800	115/208-230	143JM	Z401	143TCDR5328		\$427	S2	72.0	13.4/6.8-6.7	34	13.62	
1 1/2	1800	115/208-230	145JM	Z403	145TCDR5328		\$475	S2	77.0	18.0/9.3-9.0	43	14.62	
2	3600	115/208-230	145JM	Z404	145TBDR5304		\$478	S2	78.5	19.2/10.5-9.6	36	13.62	1
	1800	115/230	182JM	Z405A	182TCDW7074	*	\$545	S2	72.0	23.0/11.5	69	16.09	13
3	3600	115/230	182JM	Z406A	182TCDW7318	*	\$605	S2	75.5	32.0/16.1	60	15.32	13
	1800	115/230	184JM	Z407	184TCDR7047	*	\$707	S2	75.5	33.0/16.5	78	17.59	d
	1800	115/230	184JM	Z407A	184TCDR7047	*	\$707	S2	75.5	33.0/16.5	77	17.59	13
5	3600	230	184JM	Z408	184TCDR7011	*	\$886	S2	80.0	24.0	93	17.09	d,CF
	3600	230	184JM	Z408A	184TBDW17007	*	\$886	S2	80.0	22.0	93	16.32	1,13
	1800	230	213JM	Z409	213TCDW7027	*	\$972	S2	78.5	28.0	115	19.92	
7 1/2	3600	230	213JM	Z410	213TCDW7002	*	\$1,106	S2	78.5	37.0	106	18.42	
	1800	230	215JM	Z411	215TBDW7029	*	\$1,343	S2	84.0	34.5	120	19.92	1
10	3600	230	215JM	Z412	215TCDW7002	*	\$1,423	S2	81.5	47.0	150	19.92	
	1800	230	215JM	Z413	215TBDW7027	*	\$1,628	S2	82.5	44.0	159	21.17	1

## Close-Coupled Pump, JM

### Single Phase, Totally Enclosed

**Applications:** Close-coupled pumps where the pump impeller is mounted directly on the motor shaft in damp, dusty, or dirty environments.

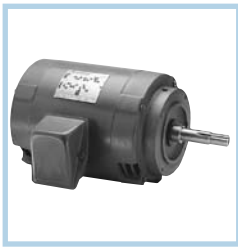
- Features:**
- NEMA JM pump shaft dimensions
  - Ball bearings, mechanically locked on shaft end
  - Capacitor start/capacitor run design for higher efficiency
  - Continuous duty
  - 1.0 Service Factor (except as noted)
  - UL Recognized and CSA Certified

### C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
5	3600	230	184JM	Z433A	184TBFW7315	*	\$917	S2	82.5	19.2	89	18.59	13
7 1/2	3600	230	213JM	Z434	213TBFW7010	*	\$1,231	S2	81.5	32.0	90	20.59	
10	3600	230	215JM	Z435	215TBFW7010	*	\$1,500	S2	85.5	41.5	236	22.09	18

# Close-Coupled Pump, JM, Three Phase

## Dripproof, C-Face Footless (Vertical) and C-Face Footed (Rigid Base)



**Applications:** Close-coupled pumps where the pump impeller is mounted directly on the motor shaft in environments that are relatively clean and dry.

- Features:**
- NEMA JM pump shaft dimensions
  - JMV frame includes drip cover for vertical mount without base
  - JM frame has rigid base, drip cover not included
  - Ball bearings, mechanically locked on shaft end
  - Continuous duty
  - 1.15 Service Factor
  - UL Recognized and CSA Certified
  - UL Listed for Fire Pump applications (except as noted)



Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1</b>	1800	200	143JM	<b>E115</b>	143TTDR4040		\$354	S2	82.5	3.6	41	14.62	
	1800	200	143JMV	<b>E117</b>	143TTDR4041		\$395	S2	82.5	3.6	40	14.92	27
	1800	208-230/460	143JM	M301	143TTDR5336	*	\$283	S2	77.0	3.5-3.6/1.8	28	13.12	d,68
	1800	208-230/460	143JMV	M302	143TTDR5334	*	\$324	S2	77.0	3.5-3.6/1.8	27	13.42	d,27,68
	1800	230/460	143JM	<b>E100</b>	143TTDR4035	*	\$354	S2	82.5	3.1/1.55	44	14.62	68
	1800	230/460	143JMV	<b>E118</b>	143TTDR4034	*	\$395	S2	82.5	3.1/1.55	40	14.92	27,68
	1800	575	143JM	<b>E116</b>	143TTDR4047		\$354	S2	82.5	1.1	36	14.62	
	1800	575	143JMV	<b>E119</b>	143TTDR4046		\$395	S2	82.5	1.1	40	14.92	27
<b>1 1/2</b>	3600	200	143JM	<b>E120</b>	143TTDR4016		\$404	S2	82.5	5.5	32	13.12	
	3600	200	143JMV	<b>E122</b>	143TTDR4017		\$445	S2	82.5	5.5	32	12.92	27
	3600	208-230/460	143JM	M303	143TTDR5309	*	\$323	S2	80.0	4.9-5.0/2.5	27	13.12	d,68
	3600	230/460	143JM	<b>E123</b>	143TTDR4009	*	\$404	S2	82.5	4.8/2.4	28	13.12	68
	3600	208-230/460	143JMV	<b>E095</b>	143TTDR14004		\$445	S2	82.5	5.2-5.0/2.5	42	12.92	27,68
	3600	575	143JM	<b>E121</b>	143TTDR4022		\$404	S2	82.5	1.9	28	13.12	
	3600	575	143JMV	<b>E124</b>	143TTDR4024		\$445	S2	82.5	1.9	36	12.92	27
	1800	200	145JM	<b>E125</b>	145TTDR4040		\$386	S2	84.0	5.0	41	14.62	
	1800	200	145JMV	<b>E127</b>	145TTDR4041		\$429	S2	84.0	5.0	39	14.92	27
	1800	208-230/460	145JMV	M306	145TTDR5346	*	\$349	S2	80.0	4.8-4.8/2.4	30	13.42	d,27,68
	1800	230/460	145JM	<b>E102</b>	145TTDR4034	*	\$386	S2	84.0	4.4/2.2	44	14.62	68
	1800	230/460	145JMV	<b>E128</b>	145TTDR4035	*	\$429	S2	84.0	4.4/2.2	39	14.92	27,68
	1800	575	145JM	<b>E126</b>	145TTDR4072		\$386	S2	84.0	1.8	41	14.62	
	1800	575	145JMV	<b>E129</b>	145TTDR4047		\$429	S2	84.0	1.8	40	14.92	27
<b>2</b>	3600	200	145JM	<b>E130</b>	145TTDR4015		\$454	S2	84.0	6.2	43	13.12	
	3600	200	145JMV	<b>E132</b>	145TTDR4016		\$496	S2	84.0	6.2	32	13.42	27
	3600	208-230/460	145JM	M307	145TTDR5313	*	\$362	S2	80.0	6.4-6.2/3.1	29	13.12	d,68
	3600	208-230/460	145JMV	M308	145TTDR5314	*	\$404	S2	80.0	6.4-6.2/3.1	28	12.92	d,27,68
	3600	208-230/460	145JM	<b>E096</b>	145TTDR4317	*	\$454	S2	84.0	5.6-5.4/2.7	33	13.12	68
	3600	230/460	145JMV	<b>E133</b>	145TTDR4010	*	\$496	S2	84.0	5.4/2.7	44	13.42	27,68
	3600	575	145JM	<b>E131</b>	145TTDR4021		\$454	S2	84.0	2.2	32	13.12	
	3600	575	145JMV	<b>E134</b>	145TTDR4022		\$496	S2	84.0	2.2	32	13.42	27
	1800	200	145JM	<b>E135</b>	145TTDR4066		\$404	S2	84.0	6.7	45	15.12	
	1800	200	145JMV	<b>E137</b>	145TTDR4067		\$445	S2	84.0	6.7	42	15.42	27
	1800	208-230/460	145JMV	M310	145TTDR5350	*	\$364	S2	81.5	6.2-6.4/3.2	36	14.42	d,27,68
	1800	230/460	145JM	<b>E104</b>	145TTDR4060	*	\$404	S2	84.0	5.8/2.9	48	15.12	68
	1800	230/460	145JMV	<b>E138</b>	145TTDR4051	*	\$445	S2	84.0	5.8/2.9	44	15.42	27,68
	1800	575	145JM	<b>E136</b>	145TTDR4046		\$404	S2	84.0	2.3	45	15.12	
	1800	575	145JMV	<b>E139</b>	145TTDR4073		\$445	S2	84.0	2.3	43	15.42	27

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

PUMP MOTORS

Continued on next page.

# Close-Coupled Pump, JM, Three Phase

## Dripproof, C-Face Footless (Vertical) and C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>3</b>	3600	200	145JM	<b>E140</b>	145TTDR4115		\$507	S2	84.0	10	34	13.62	
	3600	200	145JMV	<b>E142</b>	145TTDR4307		\$549	S2	84.0	10	34	13.92	27
	3600	208-230/460	145JM	M311	145TTDR5315	*	\$406	S2	84.0	8.9-8.4/4.2	34	13.62	68
	3600	208-230/460	145JMV	M312	145TTDR5316	*	\$448	S2	84.0	8.9-8.4/4.2	33	13.92	27,68
	3600	230/460	145JM	<b>E105</b>	145TTDR4303		\$507	S2	84.0	8.4/4.2	26	13.62	68
	3600	230/460	145JMV	<b>E143</b>	145TTDR4110		\$549	S2	84.0	8.4/4.2	34	13.92	27,68
	3600	575	145JM	<b>E141</b>	145TTDR4121		\$507	S2	84.0	3.5	34	13.62	
	3600	575	145JMV	<b>E144</b>	145TTDR4025		\$549	S2	84.0	3.5	33	13.92	27
	1800	200	182JM	<b>E145</b>	182TTDR4140		\$471	S2	86.5	9.4	70	17.09	
	1800	200	182JMV	<b>E147</b>	182TTDR4036		\$555	S2	86.5	9.9	78	18.87	27
	1800	208-230/460	182JM	M313	182TTDB7355	*	\$395	S2	80.0	9.6-10/5.0	75	13.87	d,68,98
	1800	208-230/460	182JM	<b>E097</b>	182TTDW14029	*	\$471	S2	86.5	8.8/4.4	83	14.82	13,68,98
	1800	208-230/460	182JM	M360	182TTDR5336	*	\$377	S2	84.0	9.2-8.6/4.3	57	16.59	d, 68
	1800	208-230/460	182JMV	M361	182TTDR5337	*	\$462	S2	84.0	9.2-8.6/4.3	54	16.94	d,27,68
	1800	208-230/460	182JMV	M1314	182TTDB7350	*	\$481	S2	81.5	9.4-9.0/4.5	100	17.87	d,27,68,98
	1800	230/460	182JM	<b>E106A</b>	182TTDW4336	*	\$471	S2	86.5	9.0-8.8/4.4	70	14.82	13,68
	1800	230/460	182JMV	<b>E098</b>	182TTDW4303	*	\$555	S2	85.5	14-12.4/6.2	64	14.82	27,68,98
	1800	230/460	182JMV	<b>E148A</b>	182TTDW4135	*	\$555	S2	86.5	8.8/4.4	64	18.87	27,68
	1800	575	182JM	<b>E146</b>	182TTDR4146		\$471	S2	86.5	3.45	89	16.09	
	1800	575	182JMV	<b>E149A</b>	182TTDW4147		\$555	S2	86.5	3.5	87	18.28	27
<b>5</b>	3600	200	182JM	<b>E150</b>	182TTDR4116		\$608	S2	86.5	13.8	75	16.09	13
	3600	200	182JMV	<b>E152</b>	182TTDR4117		\$690	S2	86.5	13.8	78	16.68	27
	3600	208-230/460	182JM	M1315	182TTDB7325	*	\$503	S2	85.5	13.6-12.4/6.2	88	14.82	13,68,98
	3600	208-230/460	182JMV	M1316	182TTDB7601	*	\$590	S2	85.5	13.6-12.4/6.2	74	19.24	27,68,98
	3600	230/460	182JM	<b>E107A</b>	182TTDW4325	*	\$608	S2	85.5	14-12.4/6.2	87	14.82	13
	3600	230/460	182JMV	<b>E153A</b>	182TTDW4304	*	\$690	S2	85.5	12.4/6.2	78	18.78	27
	3600	575	182JM	<b>E151</b>	182TTDR4122		\$608	S2	86.5	4.8	79	16.09	13
	3600	575	182JMV	<b>E154</b>	182TTDR4123		\$690	S2	86.5	4.8	73	16.68	27
	1800	200	184JM	<b>E155</b>	184TTDR4140		\$608	S2	87.5	15.1	78	16.59	
	1800	200	184JMV	<b>E157</b>	184TTDR4141		\$690	S2	87.5	14.5	78	19.37	27
	1800	208-230/460	184JM	M317	184TTDB7357	*	\$487	S2	86.5	14.4-13.6/6.8	58	16.35	d,68,98
	1800	208-230/460	184JM	M1317	184TTDW7357	*	\$608	S2	87.5	14.6-13.2/6.6	78	14.82	68,98
	1800	230/460	184JM	<b>E108</b>	184TTDR4034		\$608	S2	87.5	13.2/6.6	75	17.09	13
	1800	230/460	184JMV	<b>E158A</b>	184TTDW4135	*	\$690	S2	87.5	13.2/6.6	78	15.72	27,68
	1800	575	184JM	<b>E156</b>	184TTDR4146		\$608	S2	87.5	5.3	89	17.59	13
	1800	575	184JMV	<b>E159</b>	184TTDR4147		\$690	S2	87.5	5.2	83	19.37	27
<b>7 1/2</b>	3600	200	184JM	<b>E160</b>	184TTDR4115		\$731	S2	87.5	20.2	87	17.09	13
	3600	200	184JMV	<b>E162</b>	184TTDR4116		\$815	S2	87.5	20.2	89	19.87	27
	3600	208-230/460	184JM	M1319	184TTDB7322	*	\$584	S2	86.5	20.0-18.0/9.0	76	15.82	d,68,98
	3600	208-230/460	184JMV	M1320	184TTDB7325	*	\$669	S2	86.5	20.0-18.0/9.0	86	20.24	d,27,68,98
	3600	230/460	184JM	<b>E109A</b>	184TTDW14001	*	\$731	S2	87.5	17.6/8.8	89	15.82	13
	3600	230/460	184JMV	<b>E163A</b>	184TTDW4005	*	\$815	S2	87.5	17.6/8.8	90	15.82	27
	3600	575	184JM	<b>E161</b>	184TTDR4121		\$731	S2	87.5	7.2	90	17.09	13
	3600	575	184JMV	<b>E164</b>	184TTDR4122		\$815	S2	87.5	7.2	98	17.68	27

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

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# Close-Coupled Pump, JM, Three Phase

## DripProof, C-Face Footless (Vertical) and C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>7 1/2</b>	1800	200	213JM	<b>E165</b>	213TTDW4042		\$686	S2	88.5	22.1	118	19.16	
	1800	200	213JMV	<b>E167</b>	213TTDW4033		\$772	S2	88.5	22.1	96	20.44	27
	1800	208-230/460	213JM	M321	213TTDBA7047	*	\$703	S2	87.5	22.0-20.4/10.2	100	17.66	d,68,98
	1800	208-230/460	213JMV	M1322	213TTDBA7048	*	\$815	S2	84.0	22.0-21.6/10.8	68	18.94	d,27,68,98
	1800	230/460	213JM	<b>E110</b>	213TTDW4047	*	\$879	S2	88.5	19.2/9.6	100	19.16	68
	1800	230/460	213JMV	<b>E168</b>	213TTDW4048	*	\$772	S2	88.5	19.2/9.6	121	20.44	27,68
	1800	575	213JM	<b>E166</b>	213TTDW4041		\$686	S2	88.5	7.6	120	19.16	
	1800	575	213JMV	<b>E169</b>	213TTDW4038		\$990	S2	88.5	7.7	142	20.44	27
<b>10</b>	3600	200	213JM	<b>E170</b>	213TTDW4009		\$940	S2	88.5	26.9	131	19.16	
	3600	200	213JMV	<b>E172</b>	213TTDW4008		\$1,049	S2	88.5	26.9	112	20.44	27
	3600	208-230/460	213JM	M323	213TTDW7022	*	\$751	S2	85.5	28.0-25.0/12.5	96	17.66	d,68
	3600	208-230/460	213JM	M1323	213TTDBA7022	*	\$751	S2	85.5	28.0-25.0/12.5	111	17.66	d,68,98
	3600	208-230/460	213JMV	M324	213TTDW7023	*	\$861	S2	85.5	28.0-25.0/12.5	90	18.94	d,27,68
	3600	230/460	213JM	<b>E111</b>	213TTDW4022	*	\$940	S2	88.5	23.4/11.7	135	19.16	68
	3600	230/460	213JMV	<b>E173</b>	213TTDW4023	*	\$1,049	S2	88.5	23.4/11.7	132	20.44	27
	3600	575	213JM	<b>E171</b>	213TTDW4010		\$940	S2	88.5	9.3	153	19.16	
	3600	575	213JMV	<b>E174</b>	213TTDW4007		\$1,049	S2	88.5	9.3	125	20.44	27
	1800	200	215JM	<b>E175</b>	215TTDW4041		\$1,043	S2	89.5	28.7	124	19.16	68,98
	1800	200	215JMV	<b>E177</b>	215TTDW4043		\$1,152	S2	89.5	28.7	128	20.44	27,68
	1800	208-230/460	215JM	M325	215TTDBA7047	*	\$834	S2	88.5	28.4-26.4/13.2	150	19.16	d,68
	1800	208-230/460	215JMV	M326	215TTDW7048	*	\$945	S2	87.5	29.2-26.4/13.2	132	20.44	d,27,68
	1800	230/460	215JM	<b>E112</b>	215TTDW4047	*	\$1,043	S2	89.5	25.0/12.5	135	19.16	68
	1800	230/460	215JMV	<b>E178</b>	215TTDW4048	*	\$1,152	S2	89.5	25.0/12.5	135	20.44	27
	1800	575	215JM	<b>E176</b>	215TTDW4042		\$1,043	S2	89.5	10.0	125	19.16	
	1800	575	215JMV	<b>E179</b>	215TTDW4032		\$1,152	S2	89.5	10.0	118	20.44	27
	<b>15</b>	3600	200	215JM	<b>E180</b>	215TTDW4008		\$1,161	S2	90.2	39.0	128	20.41
3600		200	215JMV	<b>E182</b>	215TTDW4010		\$1,272	S2	90.2	39.0	160	21.69	27
3600		208-230/460	215JM	M327	215TTDW7022	*	\$928	S2	86.5	42.0-38.0/19.0	134	19.16	d,68
3600		208-230/460	215JMV	M328	215TTDW7023	*	\$1,040	S2	86.5	42.0-38.0/19.0	102	20.44	d,27,68
3600		230/460	215JM	<b>E113</b>	215TTDW4022	*	\$1,161	S2	90.2	34.0/17.0	131	20.41	13
3600		230/460	215JMV	<b>E183</b>	215TTDW4023	*	\$1,272	S2	90.2	34.0/17.0	127	21.69	27,68
3600		575	215JM	<b>E181</b>	215TTDW4009		\$1,161	S2	90.2	13.6	159	20.41	13
3600		575	215JMV	<b>E184</b>	215TTDW4007		\$1,272	S2	90.2	13.6	127	21.69	27
1800		200	254JM	<b>E185</b>	254TTDX4343		\$1,410	S2	91.0	44.0	268	24.17	
1800		200	254JMV	<b>E187</b>	254TTDX4345		\$1,571	S2	91.0	44.2	263	25.45	27
1800		208-230/460	254JM	<b>E114A</b>	254TTDX14062	*	\$1,410	S2	91.0	115/208-230	248	24.17	68
1800		208-230/460	254JMV	M353	254TTDX7046	*	\$1,287	S2	87.5	43.0-39.2/19.6	155	23.70	d,27
1800		230/460	254JMV	<b>E188</b>	254TTDX4039	*	\$1,571	S2	91.0	38.5/19.2	220	25.45	27,68
1800		575	254JM	<b>E186</b>	254TTDX4344		\$1,043	S2	91.0	15.3	200	24.17	
<b>20</b>	3600	200	254JM	<b>E190</b>	254TTDX4007		\$1,161	S2	91.0	53.1	204	24.17	
	3600	200	254JMV	<b>E193</b>	254TTDX4015		\$1,625	S2	91.0	53.1	185	23.70	27
	3600	208-230/460	254JM	M330	254TTDX7008	*	\$1,171	S2	88.5	52.6-47.0/23.5	156	22.42	d,68
	3600	230/460	254JM	<b>E191</b>	254TTDX4006	*	\$1,465	S2	91.0	46.0/23.1	213	22.42	
	3600	230/460	254JMV	<b>E194</b>	254TTDX4020		\$1,625	S2	91.0	46.0/23.1	187	23.70	27,68
	3600	575	254JM	<b>E192</b>	254TTDX4019		\$1,465	S2	91.0	18.5	225	22.42	
	3600	575	254JMV	<b>E195</b>	254TTDX4024		\$1,625	S2	91.0	18.5	178	23.70	27

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

PUMP MOTORS

Continued on next page.

# Close-Coupled Pump, JM, Three Phase

## Dripproof, C-Face Footless (Vertical) and C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>20</b>	1800	200	256JMV	<b>E199</b>	256TTDX4329		\$1,860	S2	91.0	60.0	235	25.45	27
	1800	208-230/460	256JM	M331	256TTDX7074	*	\$1,361	S2	88.5	56.4-53.0/26.5	230	24.17	d,68
	1800	230/460	256JM	<b>E197</b>	256TTDX4075	*	\$1,702	S2	91.0	52.0/26	128	24.17	68
	1800	230/460	256JMV	<b>U100</b>	256TTDX4041		\$1,860	S2	91.0	50.0/25	196	25.45	27,68
	1800	575	256JM	<b>E198</b>	256TTDX4326		\$1,702	S2	91.0	20.8	238	24.17	
	1800	575	256JMV	<b>U101</b>	256TTDX4047		\$1,860	S2	91.0	20.8	188	25.45	27
<b>25</b>	3600	200	256JM	<b>U102</b>	256TTDX4021		\$1,723	S2	91.0	66.5	225	24.17	
	3600	208-230/460	256JM	M332	256TTDX7011	*	\$1,378	S2	89.5	66.0-61.0/30.5	175	24.17	d,68
	3600	230/460	256JM	<b>U103</b>	256TTDX4006	*	\$1,723	S2	91.0	58.0/29	126	24.17	68
	3600	575	256JM	<b>U104</b>	256TTDX4019		\$1,723	S2	91.0	23.2	196	24.17	
	1800	208	284JM	<b>U105</b>	284TTDP4043		\$2,058	S2	91.7	67.5	358	24.31	
	1800	230/460	284JM	M333	284TTDP7338	*	\$1,647	S2	87.5	66.0/33.0	330	24.31	d,68
	1800	230/460	284JM	<b>U106</b>	284TTDP4069	*	\$2,058	S2	91.7	61.0/30.5	360	24.31	68
	1800	575	284JM	<b>U107</b>	284TTDP4037		\$2,058	S2	91.0	24.5	360	24.31	
<b>30</b>	3600	200	284JM	<b>U108</b>	284TTDP4025		\$2,101	S2	91.0	83.0	295	24.31	
	3600	230/460	284JM	<b>U109A</b>	284TTDP14009	*	\$2,101	S2	91.0	72./36.0	346	24.31	
	3600	575	284JM	<b>U110</b>	284TTDP4023		\$2,101	S2	91.0	28.8	315	24.31	
	1800	200	286JM	<b>U111</b>	286TTDP4067		\$2,377	S2	92.4	83.0	410	25.81	
	1800	230/460	286JM	<b>U112</b>	286TTDP4037	*	\$2,377	S2	92.4	72.0/36.0	385	25.81	68
	1800	575	286JM	<b>U113</b>	286TTDP4047		\$2,377	S2	92.4	28.8	385	25.81	
<b>40</b>	3600	230/460	286JM	<b>U114</b>	286TTDP4015	*	\$2,629	S2	91.7	94.0/47.0	575	25.81	
	3600	575	286JM	<b>U115</b>	286TTDP4021		\$2,629	S2	91.7	38.0	386	25.81	
	1800	230/460	324JM	<b>U116</b>	324TTDP4345		\$3,106	S2	93.0	97.0/48.5	340	26.25	68
<b>50</b>	3600	230/460	324JM	<b>U118</b>	324TTDP4004	*	\$3,364	S2	92.4	117/58.5	460	26.25	
	3600	230/460	324JM	M358	324TTDP7320	*	\$2,868	S2	89.5	124/62.0	393	26.25	d
	3600	575	324JM	<b>U119</b>	324TTDP4018		\$3,364	S2	92.4	47.0	460	26.25	
	1800	230/460	326JM	<b>U120</b>	326TTDP4329		\$3,587	S2	93.0	123/61.5	525	27.75	68
	1800	575	326JM	<b>U121</b>	326TTDP4326		\$3,587	S2	93.0	47.5	525	27.75	

Blue shaded areas are Cast Iron Frames

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements



# Globetrotter® NEMA Premium® Efficiency Close Coupled Pump, JM, Three Phase

DripProof, C-Face Footed (Rigid Base)

**Features:**

☉ Meets or exceeds NEMA Premium® efficiencies

**NEMA Premium® models are in compliance with EISA2007**

- 143TC-145TC models steel frame, 182TC-236TC models cast iron frame and brackets
- Inverter Duty 10:1 Variable Torque and 2:1 Constant Torque, 1.0 SF
- 1.15 Service Factor
- Class F Insulation
- Standard assembly F1, reversible to F2 assembly
- UL Recognized, CSA Certified, CE Mark
- Two year warranty



HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1</b>	1800	208-230/460	143JM	<b>GT0401</b>	143TTDR6030	★	\$415	S2	85.5	2.5-3.2/1.6	41	14.62	
	1800	575	143JM	<b>GT0501</b>	143TTDR6031	★	\$415	S2	85.5	1.2	41	14.62	
<b>1 1/2</b>	3600	208-230/460	143JM	<b>GT0403</b>	143TTDR6007	★	\$474	S2	84.0	4.4-4.0/2.0	40	13.12	
	3600	575	143JM	<b>GT0503</b>	143TTDR6008	★	\$474	S2	84.0	1.7	40	13.12	
	1800	208-230/460	145JM	<b>GT0404</b>	145TTDR6034	★	\$452	S2	86.5	4.8-5.6/2.4	44	14.62	
	1800	575	145JM	<b>GT0504</b>	145TTDR6031	★	\$452	S2	86.5	1.8	44	14.62	
<b>2</b>	3600	208-230/460	145JM	<b>GT0406</b>	145TTDR6007	★	\$532	S2	85.5	5.2-4.8/2.4	43	13.12	
	3600	575	145JM	<b>GT0506</b>	145TTDR6004	★	\$532	S2	85.5	2.0	43	13.12	
	1800	208-230/460	145JM	<b>GT0407</b>	145TTDR6036	★	\$512	S2	86.5	6.0-5.8/2.9	45	15.12	
	1800	575	145JM	<b>GT0507</b>	145TTDR6030	★	\$512	S2	86.5	2.5	45	15.12	
<b>3</b>	3600	208-230/460	145JM	<b>GT0409</b>	145TTDR6013	★	\$595	S2	86.5	8.0-7.2/3.6	47	13.62	
	3600	575	145JM	<b>GT0509</b>	145TTDR6006	★	\$595	S2	86.5	2.8	47	13.62	
	1800	208-230/460	182JM	<b>GT0410</b>	182TTDB6032	★	\$566	S2	89.5	8.4-7.8/3.9	123	15.35	
	1800	575	182JM	<b>GT0510</b>	182TTDB6033	★	\$566	S2	89.5	3.1	123	15.35	
<b>5</b>	3600	208-230/460	182JM	<b>GT0412</b>	182TTDB6007	★	\$715	S2	86.5	13.2-11.8/5.9	131	15.35	
	3600	575	182JM	<b>GT0512</b>	182TTDB6008	★	\$715	S2	86.5	4.7	131	15.35	
	1800	208-230/460	184JM	<b>GT0413</b>	184TTDB6032	★	\$687	S2	89.5	13.6-12.4/6.2	135	16.34	
	1800	575	184JM	<b>GT0513</b>	184TTDB6033	★	\$687	S2	89.5	5.0	135	16.34	
<b>7 1/2</b>	3600	208-230/460	184JM	<b>GT0415</b>	184TTDB6007	★	\$858	S2	88.5	19.0-17.2/8.6	149	16.34	
	3600	575	184JM	<b>GT0515</b>	184TTDB6008	★	\$858	S2	88.5	6.9	149	16.34	
	1800	208-230/460	213JM	<b>GT0416</b>	213TTDB6032	★	\$1,047	S2	91.0	20.4-18.6/9.3	166	17.68	
	1800	575	213JM	<b>GT0516</b>	213TTDB6033	★	\$1,047	S2	91.0	7.5	166	17.68	
<b>10</b>	3600	208-230/460	213JM	<b>GT0418</b>	213TTDB6007	★	\$1,106	S2	89.5	25.5-23/11.5	156	17.68	
	3600	575	213JM	<b>GT0518</b>	213TTDB6008	★	\$1,106	S2	89.5	9.2	156	17.68	
	1800	208-230/460	215JM	<b>GT0419</b>	215TTDB6032	★	\$1,225	S2	91.7	26.9-24.4/12.2	229	19.17	
	1800	575	215JM	<b>GT0519</b>	215TTDB6033	★	\$1,225	S2	91.7	9.8	229	19.17	
<b>15</b>	3600	208-230/460	215JM	<b>GT0421</b>	215TTDB6007	★	\$1,366	S2	90.2	38.0-34.0/17.0	191	19.17	
	3600	575	215JM	<b>GT0521</b>	215TTDB6008	★	\$1,366	S2	90.2	13.6	191	19.17	
	1800	208-230/460	254JM	<b>GT0422</b>	254TTDCA6032	★	\$1,646	S2	93.0	208-230/460	322	24.41	
	1800	575	254JM	<b>GT0522</b>	254TTDCA6033	★	\$1,646	S2	93.0	15.2	322	24.41	

Blue shaded areas are Cast Iron Frames

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

PUMP MOTORS

Continued on next page.

# Globetrotter® NEMA Premium® Efficiency, Three Phase

## IP23 - Close Coupled Pump, Dripproof, C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>20</b>	3600	208-230/460	254JM	<b>GT0424</b>	254TTDCA6007	★	\$1,705	S2	91.0	51.0-46.0/23.0	312	24.41	
	3600	575	254JM	<b>GT0524</b>	254TTDCA6008	★	\$1,705	S2	91.0	18.4	312	24.41	
	1800	208-230/460	256JM	<b>GT0425</b>	256TTDCA6032	★	\$2,021	S2	93.0	53.0-49.0/24.5	374	26.00	
	1800	575	256JM	<b>GT0525</b>	256TTDCA6033	★	\$2,021	S2	93.0	19.6	374	26.00	
<b>25</b>	3600	208-230/460	256JM	<b>GT0427</b>	256TTDCA6007	★	\$2,062	S2	91.7	64.0-57.0/28.5	328	26.00	
	3600	575	256JM	<b>GT0527</b>	256TTDCA6008	★	\$2,062	S2	91.7	22.8	328	26.00	
	1800	208-230/460	284JM	<b>GT0428</b>	284TTDCA6032	★	\$2,412	S2	93.6	66.0-62.0/31.0	441	26.58	
	1800	575	284JM	<b>GT0528</b>	284TTDCA6033	★	\$2,412	S2	93.6	24.8	441	26.58	
<b>30</b>	3600	208-230/460	284JM	<b>GT0430</b>	284TTDCA6007	★	\$2,462	S2	91.7	76.0-68.0/34.0	412	26.58	
	3600	575	284JM	<b>GT0530</b>	284TTDCA6008	★	\$2,462	S2	91.7	27.2	412	26.58	
	1800	208-230/460	286JM	<b>GT0431</b>	286TTDCA6032	★	\$2,786	S2	94.1	81.0-74.0/37.0	502	27.10	
	1800	575	286JM	<b>GT0531</b>	286TTDCA6033	★	\$2,786	S2	94.1	29.6	502	27.10	
<b>40</b>	3600	208-230/460	286JM	<b>GT0433</b>	286TTDCA6007	★	\$3,082	S2	92.4	100-90.0/45.0	470	27.10	
	3600	575	286JM	<b>GT0533</b>	286TTDCA6008	★	\$3,082	S2	92.4	36.0	470	27.10	
	1800	208-230/460	324JM	<b>GT0434</b>	324TTDCA6032	★	\$3,640	S2	94.1	105-95.0/47.5	604	28.95	
	1800	575	324JM	<b>GT0534</b>	324TTDCA6033	★	\$3,640	S2	94.1	40.4	604	28.95	
<b>50</b>	3600	208-230/460	324JM	<b>GT0436</b>	324TTDCA6007	★	\$3,943	S2	93.0	124-113/56.5	570	28.95	
	3600	575	324JM	<b>GT0536</b>	324TTDCA6008	★	\$3,943	S2	93.0	45.0	570	28.95	
	1800	208-230/460	326JM	<b>GT0437</b>	326TTDCA6032	★	\$4,205	S2	94.5	131-118/59.0	738	30.12	
	1800	575	326JM	<b>GT0537</b>	326TTDCA6033	★	\$4,205	S2	94.5	47.0	738	30.12	

Blue shaded areas are Cast Iron Frames

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

# Close-Coupled Pump, JM

## Three Phase, Totally Enclosed



**Applications:** Close-coupled pumps where the pump impeller is mounted directly on the motor shaft in damp, dusty, or dirty environments.

**Features:**



- NEMA JM pump shaft dimensions
- Ball bearings, mechanically locked on shaft end
- Continuous duty
- 1.15 Service Factor
- UL Recognized and CSA Certified

### C- Face Footed (Rigid Base)

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1</b>	1800	200	143JM	<b>U300</b>	143TTFR4040		\$439	S2	82.5	3.5	35	15.00	
	1800	208-230/460	143JM	M401	143TTFR5332	*	\$353	S2	77.0	3.5-3.6/1.8	31	14.50	d,68
	1800	230/460	143JM	<b>U301</b>	143TTFR4034	*	\$439	S2	82.5	3.0/1.5	35	15.00	
	1800	575	143JM	<b>U302</b>	143TTFR4046		\$439	S2	82.5	1.2	35	15.00	
<b>1 1/2</b>	3600	200	143JM	<b>U303</b>	143TTFR4015		\$516	S2	82.5	4.6	31	15.00	
	3600	208-230/460	143JM	<b>U304A</b>	143TTFR4303	*	\$516	S2	82.5	4.4-4.0/2.0	31	14.50	68
	3600	575	143JM	<b>U305</b>	143TTFR4021		\$516	S2	82.5	1.6	31	15.00	
	1800	200	145JM	<b>U306</b>	145TTFR4048		\$481	S2	84.0	5.1	45	16.50	
	1800	230/460	145JM	<b>U307</b>	145TTFR4045	*	\$481	S2	84.0	4.4/2.2	46	16.50	68
	1800	575	145JM	<b>U308</b>	145TTFR4054		\$481	S2	84.0	1.8	45	16.50	
<b>2</b>	3600	200	145JM	<b>U309</b>	145TTFR4017		\$559	S2	84.0	6.0	39	15.50	
	3600	208-230/460	145JM	M403	145TTFR5303	*	\$445	S2	80.0	6.0-6.0/3.0	32	14.50	d,68
	3600	208-230/460	145JM	<b>U310A</b>	145TTFR14011	*	\$559	S2	84.0	5.6-5.2/2.6	39	15.50	
	3600	575	145JM	<b>U311</b>	145TTFR4023		\$559	S2	84.0	2.1	39	15.50	
	1800	200	145JM	<b>U312</b>	145TTFR4050		\$503	S2	84.0	6.4	48	16.00	
	1800	208-230/460	145JM	M404	145TTFR5338	*	\$403	S2	82.5	6.0-5.8/2.9	41	16.00	d,68
	1800	208-230/460	145JM	<b>U313A</b>	145TTFR14045	*	\$503	S2	84.0	6.6-6.2/3.1	48	16.00	
	1800	575	145JM	<b>U314</b>	145TTFR4128		\$503	S2	84.0	2.2	48	16.00	
<b>3</b>	3600	208-230/460	145JM	M418	145TTFR5310	*	\$458	S2	84.0	8.4-7.6/3.8	52	15.50	d,68
	3600	208-230/460	145JM	<b>U363</b>	145TTFR4310	*	\$490	S2	85.5	8.4-8.0/4.0	59	15.00	68
	3600	200	182JM	<b>U315</b>	182TTFR4015		\$641	S2	85.5	8.5	81	17.35	13
	3600	230/460	182JM	<b>U316A</b>	182TTFW4302	*	\$641	S2	85.5	8.2-7.4/3.7	89	17.35	13
	3600	575	182JM	<b>U317</b>	182TTFR4021		\$641	S2	85.5	2.95	81	17.35	13
	1800	208-230/460	182JM	M406	182TTFR7757		\$487	S2	82.5	9.0-8.4/4.2	65	17.35	13,68
	1800	208-230/460	182JM	<b>U319A</b>	182TTFW4330	*	\$586	S2	87.5	8-8.6/4.3	72	16.59	13
	1800	575	182JM	<b>U320</b>	182TTFR4056		\$586	S2	87.5	3.35	79	18.35	13
<b>5</b>	3600	230/460	184JM	<b>U322A</b>	184TTFW4009	*	\$761	S2	87.5	12.2/6.1	118	16.09	13
	3600	575	184JM	<b>U323</b>	184TTFR4021		\$761	S2	87.5	4.9	82	18.35	13
	1800	208-230/460	184JM	<b>U325A</b>	184TTFW4760	*	\$708	S2	87.5	14.0-13.0/6.5	82	15.59	13
	1800	575	184JM	<b>U326A</b>	184TTFW14028		\$761	S2	87.5	5.2	89	15.59	13
<b>7 1/2</b>	3600	200	213JM	<b>U327</b>	213TTFW4009		\$949	S2	88.5	21.1	125	22.09	
	3600	208-230/460	184JM	<b>U360</b>	184TTFW4915	*	\$718	S2	88.5	17.6-16.8/8.4	127	18.09	13,68
	3600	208-230/460	213JM	M409	213TTFW7022	*	\$758	S2	84.0	21.2-19.2/9.6	98	20.59	d,68
	3600	230/460	213JM	<b>U329</b>	213TTFW4022	*	\$949	S2	88.5	18.4/9.2	113	22.09	68
	3600	575	213JM	<b>U331</b>	213TTFW4010		\$949	S2	88.5	7.3	147	22.09	68
	1800	208-230/460	213JM	M410	213TTFW7047	*	\$868	S2	87.5	22.0-19.4/9.7	106	20.59	d
	1800	230/460	213JM	<b>U334</b>	213TTFW4047	*	\$1,085	S2	89.5	20.0/10.0	131	20.59	68
	1800	575	213JM	<b>U335</b>	213TTFW4038		\$1,085	S2	89.5	8	225	20.59	68

Continued on next page.

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

PUMP MOTORS

## Close-Coupled Pump, JM

Three Phase, Totally Enclosed

C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>10</b>	3600	200	215JM	<b>U336</b>	215TTFW4014		\$1,161	S2	89.5	27.6	128	22.09	
	3600	230/460	215JM	<b>U337</b>	215TTFW4022	*	\$1,161	S2	89.5	24.0/12.0	142	22.09	68
	3600	575	215JM	<b>U338</b>	215TTFW4015		\$1,161	S2	89.5	9.6	158	22.09	
	1800	200	215JM	<b>U339</b>	215TTFW4035		\$1,298	S2	89.5	29.9	130	22.09	
	1800	208-230/460	215JM	M412	215TTFW7047	*	\$1,036	S2	88.5	28.0-25.0/12.5	140	22.09	d,68
	1800	230/460	215JM	<b>U340</b>	215TTFW4047	*	\$1,298	S2	89.5	25.6/12.8	135	22.09	
	1800	575	215JM	<b>U341</b>	215TTFW4036		\$1,298	S2	89.5	10.4	128	22.09	
<b>15</b>	3600	208-230/460	215JM	M417	215TTFW7022	*	\$1,105	S2	88.5	40.0-37.0/18.5	143	22.09	d,68
	3600	208-230/460	215JM	<b>U357</b>	215TTFW14301	*	\$1,182	S2	90.2	39.0-36.0/18.0	151	22.09	68
	3600	208-230/460	254JM	M413	254TTFL5004	*	\$1,161	S2	85.5	41.0-36.0/18.0	170	26.49	d,AL,68
	3600	230/460	254JM	<b>U344</b>	254TTFL4006	*	\$1,451	S2	91.0	35.0/17.5	138	24.74	AL,68
	3600	575	254JM	<b>U346</b>	254TTFL4010		\$1,451	S2	90.2	14.0	563	24.74	AL
	1800	200	254JM	<b>U347</b>	254TTFL4034		\$1,760	S2	91.0	46.0	225	24.74	AL
	1800	230/460	254JM	<b>U348</b>	254TTFL4031	*	\$1,760	S2	91.0	40.0/20.0	224	24.74	AL,68
	1800	575	254JM	<b>U349</b>	254TTFL4036		\$1,760	S2	91.0	16.0	220	24.74	AL
<b>20</b>	3600	200	256JM	<b>U350</b>	256TTFL4010		\$1,953	S2	90.2	54.1	425	26.49	AL
	3600	230/460	256JM	<b>U351</b>	256TTFL4006	*	\$1,953	S2	90.2	47.0/23.5	425	26.49	AL,68
	3600	575	256JM	<b>U352</b>	256TTFL4012		\$1,953	S2	90.2	18.8	425	26.49	AL
	1800	200	256JM	<b>U353</b>	256TTFL4036		\$2,136	S2	91.0	58.7	321	28.49	AL
	1800	230/460	256JM	<b>U354</b>	256TTFL4031	*	\$2,136	S2	91.0	51.0/25.5	321	28.49	AL,68
	1800	230/460	256JM	M421	256TTFL5055	*	\$1,708	S2	88.5	52.0/26.0	455	26.49	d,AL,68
	1800	575	256JM	<b>U355</b>	256TTFL4038		\$2,136	S2	91.0	20.4	321	28.49	AL

## Close-Coupled Pump, JP

Single Phase, DripProof



**Applications:** Close-coupled pumps where the pump impeller is mounted directly on the motor shaft in environments that are relatively clean and dry.

- Features:**
- NEMA JP pump shaft dimensions
  - Ball bearings, mechanically locked on shaft end
  - Capacitor start design for high starting torque
  - Capacitor start / capacitor run design for higher efficiency, as noted
  - Continuous duty
  - 1.15 Service Factor
  - UL Recognized and CSA Certified

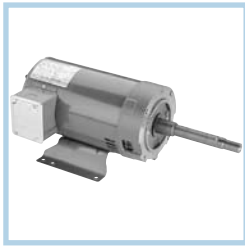
C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1</b>	1800	115/208-230	143JP	Z420	143TCDR5330		\$395	S2	72.0	13.4/6.8-6.7	35	16.68	95
<b>1 1/2</b>	1800	115/208-230	145JP	Z422	145TCDR5329		\$475	S2	77.0	18.6/9.9-9.3	43	17.68	95
<b>2</b>	1800	115/230	182JP	Z424	182TCDR7354		\$605	S2	72.0	23.0/11.5	78	19.15	13
<b>3</b>	3600	115/230	182JP	Z425	182TCDR8005		\$605	S2	74.0	32.0/16.0	87	18.65	13
	1800	115/230	184JP	Z426	184TCDR7626		\$707	S2	75.5	33.0/16.5	94	20.65	13
<b>5</b>	3600	230	184JP	Z427A	7184TBDW17011	*	\$886	S2	80.0	22.0	89	19.46	d,13
	1800	230	213JP	Z428	213TCDW7028		\$972	S2	78.5	28.0	130	23.79	95
<b>7 1/2</b>	3600	230	213JP	Z429	213TCDW7003	*	\$1,106	S2	78.5	37.0	118	22.29	95
	1800	230	215JP	Z430	215TBDW7045		\$1,343	S2	84.0	34.5	132	23.79	1,95
<b>10</b>	3600	230	215JP	Z431	215TCDW7004	*	\$1,423	S2	81.5	47.0	135	23.79	95
	1800	230	215JP	Z432	215TBDW7030		\$1,628	S2	82.5	44.0	325	25.04	1,95

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

# Close-Coupled Pump, JP, Three Phase

## Drip-proof, C-Face Footless (Vertical) and C-Face Footed (Rigid Base)



**Applications:** Close-coupled pumps where the pump impeller is mounted directly on the motor shaft in environments that are relatively clean and dry.

**Features:**

- NEMA JP pump shaft dimensions
- JPV frame includes drip cover for vertical mount without base
- JP frame has rigid base, drip cover not included
- Ball bearings, mechanically locked on shaft end
- Continuous duty
- 1.15 Service Factor
- UL Recognized and CSA Certified
- UL Listed for Fire Pump applications (except as noted)

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1</b>	1800	200	143JP	<b>U122</b>	143TTDR4042		\$354	S2	82.5	3.6	41	17.68	
	1800	200	143JPV	<b>U125</b>	143TTDR4043		\$395	S2	82.5	3.6	41	17.98	27
	1800	208-230/460	143JP	<b>U123A</b>	143TTDR14048		\$354	S2	82.5	3.3-3.1/1.6	41	17.68	68
	1800	230/460	143JPV	<b>U126</b>	143TTDR4037		\$395	S2	82.5	3.1/1.6	41	17.98	68
	1800	575	143JP	<b>U124</b>	143TTDR4048		\$354	S2	82.5	1.1	42	17.68	
	1800	575	143JPV	<b>U127</b>	143TTDR4049		\$395	S2	82.5	1.1	42	17.98	27
<b>1 1/2</b>	3600	200	143JP	<b>U128</b>	143TTDR4018		\$404	S2	82.5	5.5	46	16.18	
	3600	200	143JPV	<b>U131</b>	143TTDR4019		\$445	S2	82.5	5.5	45	15.98	27
	3600	208-230/460	143JP	<b>U129A</b>	143TTDR4003	*	\$404	S2	82.5	4.9-5.0/2.5	46	16.18	68
	3600	230/460	143JPV	<b>U132</b>	143TTDR4011		\$445	S2	82.5	4.8/2.4	46	15.98	27
	3600	575	143JP	<b>U130</b>	143TTDR4023		\$404	S2	82.5	1.9	47	16.18	
	3600	575	143JPV	<b>U133</b>	143TTDR4025		\$445	S2	82.5	1.9	47	15.98	27
	1800	200	145JP	<b>U134</b>	145TTDR4042		\$386	S2	84.0	5.0	47	17.68	
	1800	200	145JPV	<b>U137</b>	145TTDR4043		\$429	S2	84.0	5.0	47	17.98	27
	1800	208-230/460	145JP	M105	145TTDR5354	*	\$309	S2	80.0	4.8-4.8/2.4	32	16.18	d,68
	1800	208-230/460	145JP	<b>U135A</b>	145TTDR4354	*	\$386	S2	84.0	4.6-4.4/2.2	47	17.68	68
	1800	230/460	145JPV	<b>U138</b>	145TTDR4037		\$429	S2	84.0	4.4/2.2	41	17.98	27,68
	1800	575	145JP	<b>U136</b>	145TTDR4048		\$386	S2	84.0	1.8	42	17.68	
1800	575	145JPV	<b>U139</b>	145TTDR4049		\$429	S2	84.0	1.8	42	17.98	27	
<b>2</b>	3600	200	145JP	<b>U140</b>	145TTDR4017		\$364	S2	84.0	6.2	45	16.18	
	3600	200	145JPV	<b>U143</b>	145TTDR4018		\$496	S2	84.0	6.2	45	16.48	27
	3600	230/460	145JP	<b>U141</b>	145TTDR4011		\$454	S2	84.0	5.4/2.7	45	16.18	68
	3600	230/460	145JPV	<b>U144</b>	145TTDR4012		\$496	S2	84.0	5.4/2.7	45	16.48	27,68
	3600	575	145JP	<b>U142</b>	145TTDR4023		\$454	S2	84.0	2.2	45	16.18	
	3600	575	145JPV	<b>U145</b>	145TTDR4024		\$496	S2	84.0	2.2	45	16.48	27
	1800	200	145JP	<b>U146</b>	145TTDR4068		\$404	S2	84.0	6.7	45	18.18	
	1800	200	145JPV	<b>U149</b>	145TTDR4069		\$445	S2	84.0	6.7	45	18.48	27
	1800	208-230/460	145JP	M109	145TTDR5356	*	\$323	S2	81.5	6.2-6.2/3.1	37	17.18	68
	1800	208-230/460	145JP	<b>U147A</b>	145TTDR4356	*	\$404	S2	84.0	6.2-5.8/2.9	44	17.98	68
	1800	208-230/460	145JPV	<b>U150A</b>	145TTDR4355		\$445	S2	84.0	6.2-5.8/2.9	44	17.98	27,68
	1800	575	145JP	<b>U148</b>	145TTDR4074		\$404	S2	84.0	2.3	44	18.18	
	1800	575	145JPV	<b>U151</b>	145TTDR4075		\$445	S2	84.0	2.3	44	18.48	27

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

Continued on next page.



# Close-Coupled Pump, JP, Three Phase

## Drip-proof, C-Face Footless (Vertical) and C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>3</b>	3600	200	145JP	<b>U152</b>	145TTDR4117		\$507	S2	84.0	10.0	43	16.68	
	3600	200	145JPV	<b>U155</b>	145TTDR4118		\$549	S2	84.0	10.0	43	16.98	27
	3600	208-230/460	145JP	M111	145TTDR5319	*	\$406	S2	84.0	8.9-8.4/4.2	36	16.68	d,68
	3600	230/460	145JP	<b>U153</b>	145TTDR4111	*	\$507	S2	84.0	8.4/4.2	42	16.68	68
	3600	230/460	145JPV	<b>U156</b>	145TTDR4112		\$549	S2	84.0	8.4/4.2	45	16.98	27,68
	3600	575	145JP	<b>U154</b>	145TTDR4123		\$507	S2	84.0	3.5	46	16.68	
	3600	575	145JPV	<b>U157</b>	145TTDR4124		\$549	S2	84.0	3.5	45	16.98	27
	1800	200	182JP	<b>U158</b>	182TTDR4142		\$471	S2	86.5	9.4	51	19.66	13
	1800	200	182JPV	<b>U161</b>	182TTDR4143		\$555	S2	86.5	9.4	52	19.91	27
	1800	208-230/460	182JP	M170	182TTDR5338	*	\$377	S2	84.0	9.2-8.6/4.3	60	19.65	d,13,68
	1800	208-230/460	182JP	<b>U159A</b>	182TTDW4338		\$471	S2	86.5	9.0-8.8/4.4	70	17.46	13,68
	1800	230/460	182JPV	<b>U162</b>	182TTDR4048		\$555	S2	86.5	8.6/4.3	102	19.84	13,27
	1800	575	182JP	<b>U160</b>	182TTDR4148		\$471	S2	86.5	3.45	103	19.66	13
	1800	575	182JPV	<b>U163</b>	182TTDR4149		\$555	S2	86.5	3.45	102	19.91	13,27
<b>5</b>	3600	200	182JP	<b>U164</b>	182TTDR4118		\$608	S2	86.5	13.8	78	19.16	13
	3600	200	182JPV	<b>U167</b>	182TTDR4119		\$690	S2	86.5	13.8	81	19.84	13,27
	3600	208-230/460	182JP	<b>U165A</b>	182TTDW14011	*	\$608	S2	85.5	14.0-12.4/6.2	97	17.96	68
	3600	230/460	182JPV	<b>U168</b>	182TTDR4113		\$690	S2	86.5	12.0/6.0	85	19.84	27
	3600	575	182JP	<b>U166</b>	182TTDR4124		\$608	S2	86.5	4.8	76	19.16	13
	3600	575	182JPV	<b>U169</b>	182TTDR4125		\$690	S2	86.5	4.8	72	19.84	13,27
	1800	200	184JP	<b>U170</b>	184TTDR4142		\$608	S2	87.5	14.5	74	20.41	13
	1800	200	184JPV	<b>U173</b>	184TTDR4143		\$690	S2	87.5	14.5	72	20.84	27
	1800	208-230/460	184JP	<b>M115A</b>	184TTDW7358	*	\$487	S2	87.5	16.0-14.8/7.4	74	17.88	13,68
	1800	208-230/460	184JPV	M163	184TTDR8039		\$572	S2	82.5	14.5-13.4/6.7	74	19.84	27,68,98
	1800	208-230/460	184JPV	<b>U299</b>	184TTDW4039		\$690	S2	87.5	14.5-13.2/6.6	87	21.66	27,68,98
	1800	230/460	184JP	<b>U171A</b>	184TTDW4136		\$608	S2	87.5	12.6/6.3	54	20.41	13
	1800	575	184JP	<b>U172</b>	184TTDR4148		\$608	S2	87.5	5.3	69	20.16	13
	1800	575	184JPV	<b>U175</b>	184TTDR4149		\$690	S2	87.5	5.0	72	20.84	27
<b>7 1/2</b>	3600	200	184JP	<b>U176</b>	184TTDR4117		\$731	S2	87.5	20.7	72	20.16	13
	3600	200	184JPV	<b>U179</b>	184TTDR4118		\$815	S2	87.5	20.2	72	20.84	27
	3600	208-230/460	184JP	M116	184TTDR7604	*	\$584	S2	84.5	21.0-19.4/9.7	72	19.41	d,68,98
	3600	208-230/460	184JP	<b>U177A</b>	184TTDW14079	*	\$731	S2	87.5	20.0-17.6/8.8	131	18.88	13,68
	3600	230/460	184JPV	<b>U180</b>	184TTDR4112		\$815	S2	87.5	17.6/8.8	131	20.32	27
	3600	575	184JP	<b>U178</b>	184TTDR4123		\$731	S2	87.5	7.2	131	20.16	13
	3600	575	184JPV	<b>U181</b>	184TTDR4124		\$815	S2	87.5	7.2	136	20.32	27
	1800	200	213JP	<b>U182</b>	213TTDW4044		\$879	S2	88.5	22.1	137	23.03	
	1800	200	213JPV	<b>U185</b>	213TTDW4051		\$990	S2	88.5	22.1	123	24.31	27
	1800	208-230/460	213JP	M117	213TTDW7049	*	\$703	S2	84.0	22.0-21.6/10.8	111	21.53	d,68
	1800	230/460	213JP	<b>U183</b>	213TTDW4049	*	\$879	S2	88.5	19.2/9.6	141	23.03	68
	1800	230/460	213JPV	<b>U186A</b>	213TTDW14059		\$990	S2	88.5	19.4/9.2	141	23.03	27,68
	1800	575	213JP	<b>U184</b>	213TTDW4039		\$879	S2	88.5	7.6	138	23.03	
	1800	575	213JPV	<b>U187</b>	213TTDW4052		\$990	S2	88.5	7.7	140	24.31	27

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

Continued on next page.

PUMP MOTORS

# Close-Coupled Pump, JP, Three Phase

## DripProof, C-Face Footless (Vertical) and C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>10</b>	3600	200	213JP	<b>U188</b>	213TTDW4011		\$940	S2	88.5	26.9	130	23.03	
	3600	200	213JPV	<b>U191</b>	213TTDW4013		\$1,049	S2	88.5	26.9	130	24.31	27
	3600	208-230/460	213JP	M118	213TTDW7024	*	\$751	S2	85.5	28.0-25.0/12.5	130	21.53	d,68
	3600	208-230/460	213JP	<b>U189A</b>	213TTDW14013	*	\$940	S2	88.5	26.0-23.4/11.7	132	23.03	68
	3600	230/460	213JPV	<b>U192</b>	213TTDW4025		\$1,049	S2	88.5	23.4/11.7	134	24.31	27,68
	3600	575	213JP	<b>U190</b>	213TTDW4012		\$940	S2	88.5	9.4	135	23.03	
	3600	575	213JPV	<b>U193</b>	213TTDW4014		\$1,049	S2	88.5	9.3	130	24.31	27
	1800	200	215JP	<b>U194</b>	215TTDW4044		\$1,043	S2	89.5	28.8	156	23.03	
	1800	200	215JPV	<b>U197</b>	215TTDW4053		\$1,152	S2	89.5	28.8	163	24.31	27
	1800	208-230/460	215JP	M119	215TTDW7049	*	\$834	S2	87.5	29.0-26.4/13.2	115	23.03	d,68
	1800	208-230/460	215JPV	M167	215TTDW7050		\$945	S2	87.5	29.2-26.4/13.2	141	24.31	27,68
	1800	230/460	215JP	<b>U195</b>	215TTDW4049	*	\$1,043	S2	89.5	25.0/12.5	225	23.03	68
	1800	208-230/460	215JPV	<b>U198A</b>	215TTDW14073		\$1,152	S2	89.5	28.0-25.0/12.5	225	24.38	27,68
	1800	575	215JP	<b>U196</b>	215TTDW4051		\$1,043	S2	89.5	10.0	135	23.03	
	1800	575	215JPV	<b>U199</b>	215TTDW4052		\$1,152	S2	89.0	10.0	137	24.31	27
<b>15</b>	3600	200	215JP	<b>U200</b>	215TTDW4011		\$1,161	S2	90.2	39.0	138	24.28	
	3600	200	215JPV	<b>U203</b>	215TTDW4013		\$1,272	S2	90.2	39.1	139	25.56	27
	3600	208-230/460	215JPV	M168	215TTDW7025		\$1,040	S2	91.0	39.0-35.0/17.5	129	24.31	27,68
	3600	230/460	215JP	<b>U201A</b>	215TTDW14020	*	\$1,161	S2	90.2	34.0/17.0	220	24.28	68
	3600	230/460	215JPV	<b>U204</b>	215TTDW4025		\$1,272	S2	90.2	34.0/17.0	135	25.56	27,68
	3600	575	215JP	<b>U202</b>	215TTDW4012		\$1,161	S2	90.2	13.6	168	24.28	
	3600	575	215JPV	<b>U205</b>	215TTDW4014		\$1,272	S2	90.2	13.6	215	25.56	27
	1800	200	254JP	<b>U206</b>	254TTDX4074		\$1,410	S2	91.0	44.0	220	27.04	
	1800	200	254JPV	<b>U209</b>	254TTDX4060		\$1,571	S2	91.0	44.0	198	28.33	27
	1800	208-230/460	254JP	M121	254TTDX7042	*	\$1,128	S2	87.5	43.0-39.2/19.6	158	25.29	d,68
	1800	208-230/460	254JPV	M122	254TTDX7043	*	\$1,287	S2	87.5	43.0-39.2/19.6	174	26.58	d,27
	1800	230/460	254JP	<b>U207</b>	254TTDX4075	*	\$1,410	S2	91.0	38.5/19.2	214	27.04	
	1800	230/460	254JPV	<b>U210</b>	254TTDX4041	*	\$1,571	S2	91.0	38.5/19.2	224	28.33	27
	1800	575	254JP	<b>U208</b>	254TTDX4340		\$1,410	S2	91.0	15.4	260	27.04	
	1800	575	254JPV	<b>U211</b>	254TTDX4341		\$1,571	S2	91.0	15.4	220	28.33	27
<b>20</b>	3600	200	254JP	<b>U212</b>	254TTDX4014		\$1,465	S2	91.0	53.1	200	25.29	
	3600	200	254JPV	<b>U215</b>	254TTDX4010		\$1,625	S2	91.0	53.1	200	26.58	27
	3600	230/460	254JP	<b>U213</b>	254TTDX4017	*	\$1,465	S2	91.0	46.0/23.1	213	25.29	
	3600	230/460	254JPV	<b>U216</b>	254TTDX4012		\$1,625	S2	91.0	46.0/23.1	150	26.58	27,68
	3600	575	254JP	<b>U214</b>	254TTDX4008		\$1,465	S2	91.0	18.0	203	25.29	
	3600	575	254JPV	<b>U217</b>	254TTDX4016		\$1,625	S2	91.0	18.5	200	26.58	27
	1800	200	256JP	<b>U218</b>	256TTDX4064		\$1,702	S2	91.0	60.0	225	27.04	
	1800	200	256JPV	<b>U221</b>	256TTDX4065		\$1,860	S2	91.0	59.8	235	28.33	27
	1800	230/460	256JP	<b>U219</b>	256TTDX4063	*	\$1,702	S2	91.0	52.0/26.0	328	27.04	68
	1800	575	256JP	<b>U220</b>	256TTDX4328		\$1,702	S2	91.0	20.8	136	27.04	
<b>25</b>	1800	575	256JPV	<b>U223</b>	256TTDX4059		\$1,860	S2	91.0	20.8	220	28.33	27
	3600	200	256JP	<b>U224</b>	256TTDX4022		\$1,723	S2	91.0	66.7	235	27.04	
	3600	230/460	256JP	<b>U225</b>	256TTDX4004	*	\$1,723	S2	91.0	58.0/29.0	185	27.04	68
	3600	575	256JP	<b>U226</b>	256TTDX4023		\$1,723	S2	91.0	23.2	255	27.04	

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

Continued on next page.

PUMP MOTORS

## Close-Coupled Pump, JP, Three Phase

### Drip-proof, C-Face Footed (Rigid Base)

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>25</b>	1800	200	284JP	<b>U227</b>	284TTDP4044		\$2,058	S2	91.7	70.0	420	27.18	
	1800	230/460	284JP	M126	284TTDP7072	*	\$1,647	S2	87.5	66.0/33.0	306	27.18	d,68
	1800	230/460	284JP	<b>U228A</b>	284TTDP14044	*	\$2,058	S2	91.7	61.0/30.5	310	27.18	68
	1800	575	284JP	<b>U229</b>	284TTDP4045		\$2,058	S2	91.7	24.5	348	27.18	
<b>30</b>	3600	200	284JP	<b>U230</b>	284TTDP4011		\$2,101	S2	91.0	83.0	361	27.18	
	3600	230/460	284JP	M127	284TTDP7302	*	\$1,679	S2	88.5	73.0/36.5	305	27.18	d,68
	3600	230/460	284JP	<b>U231</b>	284TTDP4022	*	\$2,101	S2	91.0	72.0/36.0	368	27.18	68
	3600	575	284JP	<b>U232</b>	284TTDP4012		\$2,101	S2	91.0	29.0	428	27.18	
	1800	200	286JP	<b>U233</b>	286TTDP4048		\$2,377	S2	92.4	83.0	330	28.68	
	1800	230/460	286JP	M128	286TTDP7054	*	\$1,859	S2	89.5	79.0/39.5	331	28.68	d,68
	1800	230/460	286JP	<b>U234</b>	286TTDP4074	*	\$2,377	S2	92.4	72.0/36.0	331	28.68	68
	1800	575	286JP	<b>U235</b>	286TTDP4049		\$2,377	S2	92.4	28.8	425	28.68	
<b>40</b>	3600	230/460	286JP	M129	286TTDP7018	*	\$2,104	S2	88.5	100/50.0	350	28.68	d,68
	3600	230/460	286JP	<b>U236</b>	286TTDP4020	*	\$2,629	S2	91.7	94.0/47.0	428	28.68	68
	3600	575	286JP	<b>U237</b>	286TTDP4024		\$2,629	S2	91.7	38.0	327	28.68	
	1800	230/460	324JP	<b>U238</b>	324TTDP4348	*	\$3,106	S2	93.0	97.0/48.5	487	29.12	68
	1800	230/460	324JP	M130	324TTDP7073	*	\$2,484	S2	89.5	106/53.0	563	29.12	d,68
	1800	575	324JP	<b>U239</b>	324TTDP4033		\$3,106	S2	93.0	39.0	474	29.12	
<b>50</b>	3600	230/460	324JP	<b>U240</b>	324TTDP4002	*	\$3,364	S2	92.4	117/58.5	478	29.12	68
	3600	575	324JP	<b>U241</b>	324TTDP4011		\$3,385	S2	92.4	47.0	424	29.12	
	1800	230/460	326JP	M131	326TTDP7330	*	\$2,868	S2	90.2	130/65.0	427	30.62	d,68
	1800	230/460	326JP	<b>U242</b>	326TTDP4340	*	\$3,587	S2	93.0	123/61.5	585	30.62	68
	1800	575	326JP	<b>U243</b>	326TTDP4032		\$3,587	S2	93.0	49.0	490	30.62	

Blue shaded areas are Cast Iron Frames

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

## Close-Coupled Pump, JP, Three Phase

### Totally Enclosed, C-Face Footed (Rigid Base)



**Applications:** Close-coupled pumps where the pump impeller is mounted directly on the motor shaft in damp, dusty, or dirty environments.

**Features:**



- **More ratings available, contact Marathon for price and availability**
- NEMA JP pump shaft dimensions
- Ball bearings, mechanically locked on shaft end
- Continuous duty
- 1.15 Service Factor
- UL Recognized and CSA Certified

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>7 1/2</b>	3600	200	213JP	<b>U328</b>	213TTFW4011		\$949	S2	89.5	21.2	96	25.96	
	3600	208-230/460	184JP	M216	184TTFR8914	*	\$671	S2	85.5	20.0-19.0/9.5	84	21.91	d,68
	3600	208-230/460	184JP	<b>U372</b>	184TTFW4914	*	\$767	S2	88.5	17.6-16.8/8.4	90	21.20	13,68
	3600	575	213JP	<b>U332</b>	213TTFW4012		\$949	S2	89.5	7.4	98	25.96	
<b>15</b>	3600	200	254JP	<b>U343</b>	254TTFL4009		\$1,451	S2	91.0	40.3	197	27.60	AL
	3600	208-230/460	215JP	<b>U366</b>	215TTFW14302		\$1,182	S2	90.2	40.0-37.0/18.5	193	25.96	68
	3600	208-230/460	254JP	M213	254TTFL5003	*	\$1,161	S2	85.5	41.0-36.0/18.0	173	27.60	d,AL,68
	3600	230/460	254JP	<b>U345A</b>	254TTFL14008		\$1,451	S2	91.0	35.0/17.5	173	27.55	AL,68
	3600	575	254JP	<b>U356</b>	254TTFL4011		\$1,451	S2	91.0	14.0	173	27.60	AL

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

# Fire Pump, Three Phase

## Dripproof, Rigid Base



**Applications:** For use on pumps designed for fire pump duty and installed per NFPA-20. These Dripproof motors are intended for installation in relatively clean and dry environments. **Fire Pump motors are not recommended for use with variable frequency drives.**

- Features:**
- UL File EX5190, CSA File LR2025
  - Ball bearings
  - 1.15 Service Factor
  - Red paint on 25 HP through 200 HP
  - NEMA Design B, Code G or less
  - Dual voltage motors have 12 leads, suitable for wye-delta or across the line start on either voltage, or part winding start on low voltage
  - Single voltage motors have 12 leads and are suitable for wye-delta, across the line, or part winding start
  - Will accept C- Face kits, see Accessories section
  - 230/460 and 460 Volt models rated for 50 HZ at next lower HP, 1.15 SF as noted

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>25</b>	3600	200/400	256T	<b>U501</b>	256TTDX4020		\$1,750	E2	91.0	66.5/33.5	126	22.32	
	3600	230/460	256T	<b>U500</b>	256TTDX4024		\$1,750	E2	91.0	58.0/29.0	164	22.32	68
	1800	200/400	284T	<b>U503</b>	284TTDP4047		\$1,733	E2	91.7	70/35.0	420	23.49	
	1800	230/460	284T	<b>U502</b>	284TTDP4027		\$1,733	E2	91.7	61.0/30.5	423	23.49	68
<b>30</b>	3600	200/400	284TS	Y625	284TSTDP8618		\$1,613	E2	88.5	84.0/42.0	247	22.06	
	3600	230/460	284TS	<b>U504</b>	284TSTDP4002		\$2,088	E2	91.0	72.0/36.0	460	22.06	68
	1800	200/400	286T	<b>U507</b>	286TTDP14042		\$2,016	E2	92.4	83.0/41.5	331	24.99	68
	1800	230/460	286T	<b>U506</b>	286TTDP4041		\$2,016	E2	92.4	72.0/36.0	331	24.99	68
<b>40</b>	3600	200/400	286TS	<b>U509</b>	286TSTDP4023	*	\$2,672	E2	91.7	108/54.0	360	23.56	
	3600	230/460	286TS	<b>U508</b>	286TSTDP4022	*	\$2,672	E2	91.7	94.0/47.0	332	23.56	68
	1800	200/400	324T	<b>U511</b>	324TTDP14049		\$2,507	E2	93.0	112/56.0	465	26.00	
	1800	230/460	324T	<b>U510</b>	324TTDP4038		\$2,507	E2	93.0	97.0/48.5	465	26.00	68
<b>50</b>	3600	200/400	324TS	<b>U513</b>	324TSTDP4007	*	\$3,176	E2	92.4	135/67.5	414	24.50	
	3600	230/460	324TS	<b>U512</b>	324TSTDP4010	*	\$3,176	E2	92.4	117/58.5	414	24.50	68
	1800	200/400	326T	<b>U515</b>	326TTDP4344		\$2,922	E2	93.0	141/70.5	515	27.50	
	1800	230/460	326T	<b>U514</b>	326TTDP4345		\$2,922	E2	93.0	123/61.5	345	27.50	68
<b>60</b>	3600	200/400	326TS	Y637	326TSTDP8219	*	\$3,242	E2	90.2	167/83.5	465	26.00	d
	3600	200/400	326TS	<b>U517</b>	326TSTDP4022	*	\$3,611	E2	93.0	155/77.5	378	26.00	
	3600	230/460	326TS	<b>U516</b>	326TSTDP4024	*	\$3,611	E2	93.0	135/67.5	378	26.00	68
	1800	200/400	326TS	<b>U521</b>	326TSTDR14034		\$3,285	E2	93.6	167/83.5	418	29.50	
	1800	200/400	364TS	<b>U519</b>	364TSTDS4337		\$3,682	E2	93.6	166/83.0	699	26.50	
	1800	200/400	364T	<b>U538</b>	364TTDS14329		\$3,682	E2	93.6	166/83.0	716	28.62	
	1800	230/460	364T	<b>U520</b>	364TTDS4328		\$3,682	E2	93.6	144/72.0	716	28.62	68
	1800	230/460	364TS	<b>U518</b>	364TSTDS4332	*	\$3,682	E2	93.6	144/72.0	686	26.50	68
<b>75</b>	3600	200/400	364TS	<b>U523</b>	364TSTDS4024	*	\$4,949	E2	93.0	210/105	713	26.50	

Blue shaded areas are Cast Iron Frames

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements

PUMP MOTORS

# Fire Pump, Three Phase

## Drip-proof, Rigid Base

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>75</b>	3600	230/460	364TS	<b>U522</b>	364TSTDS4025	*	\$4,949	E2	93.0	183/91.5	950	26.50	68
	1800	200/400	365TS	<b>U525</b>	365TSTDS4347	*	\$4,485	E2	94.1	204/102	766	27.50	
	1800	230/460	365TS	<b>U524</b>	365TSTDS4332	*	\$4,485	E2	94.1	177/88.5	772	27.50	68
<b>100</b>	3600	200/400	365TS	<b>U527</b>	365TSTDS4303	*	\$6,501	E2	93.0	276/138	748	27.50	
	3600	200/400	365TS	Y647	365TSTDS7904	*	\$5,943	E2	91.7	274/137	690	27.50	d
	3600	230/460	365TS	<b>U526</b>	365TSTDS4025	*	\$6,501	E2	93.0	240/120	721	27.50	68
	1800	200/400	404TS	<b>U529</b>	404TSTDS4333	*	\$5,807	E2	94.1	271/136	850	29.50	
	1800	230/460	404TS	<b>U528</b>	404TSTDS4332	*	\$5,720	E2	94.1	236/118	1002	29.50	68
<b>125</b>	3600	200/400	404TS	Y651	404TSTDS7623	*	\$7,310	E2	92.4	322/161	910	29.50	d
	3600	200/400	404TS	<b>U531</b>	404TSTDS14008	*	\$8,087	E2	93.6	327/163	949	29.50	
	3600	230/460	404TS	<b>U530</b>	404TSTDS4017	*	\$8,087	E2	93.6	284/142	933	29.50	68
	1800	200/400	405TS	<b>U533</b>	405TSTDS4333	*	\$6,849	E2	94.5	336/168	1070	31.00	
	1800	230/460	405TS	<b>U532</b>	405TSTDS4332	*	\$6,849	E2	94.5	292/146	925	31.00	68
<b>150</b>	3600	460	405TS	<b>U534</b>	405TSTDS4006	*	\$9,838	E2	93.6	169	1004	31.00	68
	1800	460	444TS	<b>U535</b>	444TSTDS4332	*	\$9,891	E2	95.0	173	1286	34.00	68
<b>200</b>	3600	460	444TS	<b>U536</b>	444TSTDS4010	*	\$15,304	E2	94.5	225	1313	34.00	68
	1800	460	445TS	<b>U537</b>	445TSTDS4332	*	\$12,496	E2	95.0	233	1414	36.00	68
<b>250</b>	3600	460	445TS	U539	445TSTDS14007	*	\$15,937	E2	94.5	279	1608	36.00	68
	1800	460	445TS	U540	445TSTDS14051	*	\$13,790	E2	95.4	287	1642	36.00	68
<b>300</b>	3600	460	447TS	H178	447TSTDN7001	*	\$16,918	E6	95.0	332	1940	39.50	F,25,68
	1800	460	447TS	H812	447TSTDN7026	*	\$15,976	E6	95.4	345	1994	39.50	F,25,68
<b>350</b>	3600	460	447TS	H193	447TSTDN7003	*	\$19,379	E6	95.0	385	2013	39.50	F,25,68
	1800	460	447TS	H813	447TSTDN7027	*	\$17,363	E6	95.4	400	2064	39.50	F,25,68
<b>400</b>	3600	460	447TS	H817	447TSTDN7005	*	\$22,049	E6	95.4	440	2150	39.50	F,25,68
	1800	460	447TS	H814	447TSTDN7028	*	\$20,152	E6	95.4	450	2220	39.50	F,25
<b>450</b>	3600	460	449TS	H818	449TSTDN7001	*	\$23,550	E6	95.8	495	2544	44.50	F,TS,25,68
	1800	460	449TS	H815A	449TSTDN14033	*	\$23,169	E6	95.8	505	2937	44.50	F,TS,25
<b>500</b>	3600	460	449TS	H819A	449TSTDN14005	*	\$28,591	E6	95.8	545	2892	44.50	F,TS,25
	1800	460	449TS	H816	449TSTDN7027	*	\$23,599	E6	95.8	560	2695	44.50	F,TS,25

Blue shaded areas are Cast Iron Frames

Catalog numbers (Cat No.) highlighted in bold blue have efficiency levels that meet EISA requirements



# Spa and Jetted Tub

## Single Compartment, Single Phase, Dripproof



### Features:

- Designed for Spa Duty only
- Permanent Split Capacitor (PSC)
- Fixed CW rotation, viewed opposite shaft end
- Shaft type is threaded
- UL Recognized and CSA Certified

### Rigid Base - Single Speed

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/15	1800	115	56Z	RB901	5KCP35DNC172X	★	\$131	F1	1.0	1.3	13	9.76	
	1800/1500	230/220-240	56Z	RB902	5KCP35DNC173X	★	\$142	F1	1.0	0.7	13	9.76	
	1800/1500	230/220-240	56Z	RB951	5KCP35DNC174T		\$197	F1	1.0	0.7/0.5	13	9.73	50,N
1/2	3600	115	56Z	RB701	5KCP38HN4301X		\$149	F1	1.0	5.2	15	11.22	
3/4	3600	115	56Z	RB702	5KCP38JN4300X		\$167	F1	1.0	7.0	15	11.22	
1	3600	115	56Z	RB703	5KCP38LN4222X		\$183	F1	1.0	9.4	17	11.22	
	3600	230	56Z	RB723	5KCP38LN4455X	★	\$183	F1	1.0	4.3	17	11.22	
1 1/2	3600	115/230	56Z	RB704	5KCP39SN4429X	★	\$227	F1	1.0	13.0/6.5	21	11.75	
	3600	115/230	56Z	RB714	5KCP48PN9170X		\$227	F1	1.0	13.0/6.5	31	12.37	
2	3600	230	56Z	RB715	5KCP49RN9289X	★	\$248	F1	1.0	8.4	33	12.92	
	3600	115/230	56Z	RB705	5KCP39SN4249X		\$259	F1	1.0	17.2/8.6	21	12.50	
2 1/2	3600	230	56Z	RB716	5KCP49SN9306X	★	\$281	F1	1.0	10.2	35	12.92	
	3600	230	56Z	RB706	5KCP39TN4454X		\$281	F1	1.0	10.0	22	12.50	
3	3600	230	56Z	RB717	5KCP49TN9307X	★	\$314	F1	1.0	12.0	38	13.56	
4	3600	230	56Z	RB718	5KCP49WN9308X	★	\$379	F1	1.0	16.0	44	14.64	

### Rigid Base - Two Speed

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/2	3600/1800	115	56Z	RB801	5KCP38LN4302X		\$215	F1	1.0	5.2/2.2	17	11.22	
3/4	3600/1800	115	56Z	RB802	5KCP39NN4294X		\$232	F1	1.0	7.3/2.6	18	11.75	
1	3600/1800	115	56Z	RB803	5KCP39RN4422X		\$248	F1	1.0	8.8/3.0	20	12.50	
	3600/1800	230	56Z	RB823	5KCP39PNB827X		\$248	F1	1.0	4.5/1.6	19	11.75	
1 1/2	3600/1800	115	56Z	RB804	5KCP39SN4457X	★	\$281	F1	1.0	13.2/3.8	21	12.50	
	3600/1800	230	56Z	RB824	5KCP39SN4462X	★	\$281	F1	1.0	6.8/2.5	21	12.50	
2	3600/1800	230	56Z	RB805	5KCP39TN4458X	★	\$314	F1	1.0	8.4/3.0	22	12.50	
	3600/1800	230	56Z	RB815	5KCP49SN9312X	★	\$314	F1	1.0	8.4/2.7	22	12.92	
2 1/2	3600/1800	230	56Z	RB816	5KCP49TN9313X	★	\$346	F1	1.0	10.0/3.5	38	12.92	
	3600/1800	230	56Z	RB806	5KCP39UN4459X	★	\$346	F1	1.0	10.0/2.9	38	13.19	
3	3600/1800	230	56Z	RB817	5KCP49UN9314X	★	\$379	F1	1.0	12.0/3.9	42	13.56	
	3600/1800	230	56Z	RB807	5KCP39VN4461X	★	\$379	F1	1.0	12.0/3.3	42	13.19	
4	3600/1800	230	56Z	RB818	5KCP49ZN9315X	★	\$445	F1	1.0	16.0/4.5	49	14.64	

# Pool (Above-Ground), Spa and Jetted Tub

## Two Compartment, Single Phase, Dripproof, Rigid Base



### Features:

- Capacitor start design for high starting torque
- Capacitor start/capacitor run design for higher efficiency, as noted
- Split phase, as noted
- 50° C Ambient
- Fixed CW rotation, viewed opposite shaft end
- Extended clamp screws
- Shaft type is threaded
- UL Recognized and CSA Certified

### Single Speed

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>3/4</b>	3600	115/230	56Z	C1453	5KC39JN2895X	★	\$203	F1	1.0	9.0/4.5	15	10.80	
	3600	115	56Z	H909	5KH33JN6141X	★	\$151	F1	1.0	9.9	15	10.31	d,3
<b>1</b>	3600	115/230	56Z	C1454	5KC33NN2896X	★	\$219	F1	1.0	11.7/5.9	18	11.80	
	3600	115	56Z	C1429	5KC33NN4099X	★	\$214	F1	1.0	11.7	41	11.78	
	3600	115	56Z	H910	5KH33NN6142X	★	\$167	F1	1.0	12.4	20	10.71	d,3
<b>1 1/2</b>	3600	115/230	56Z	C1455	5KCR39SN2897X	★	\$253	F1	1.0	14.4/7.2	27	13.20	ES,1
	3600	115	56Z	H921	5KH36SN6140X	★	\$199	F1	1.0	15.8	19	11.84	d,3
	3600	115/230	56Z	C1905	5KC39SN6139X	★	\$210	F1	1.0	16.0/8.0	26	11.80	d
<b>2</b>	3600	230	56Z	C1456	5KCR39UN2898X	★	\$280	F1	1.0	8.5	23	13.20	ES,1
<b>3</b>	3600	230	56Z	C1503	5KCR39UN6097X	★	\$313	F1	1.0	12.5	23	14.10	ES,F,1

### Two Speed

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>3/4</b>	3600/1800	115	56Z	C1322	5KC33NN2899X	★	\$219	F1	1.0	8.8/2.6	18	11.80	
	3600/1800	230	56Z	C1457	5KC33NN2900X	★	\$226	F1	1.0	4.4/1.3	18	11.80	
<b>1</b>	3600/1800	115	56Z	C1323	5KC39RN2901X	★	\$237	F1	1.0	11.9/3.3	20	13.20	
	3600/1800	115	56Z	C1903	5KC38RN3662X	★	\$194	F1	1.0	11.9/3.3	18	11.30	d
	3600/1800	230	56Z	C1324	5KC39RN2902X	★	\$242	F1	1.0	5.8/1.9	24	13.20	
<b>1 1/2</b>	3600/1800	115	56Z	C1316	5KCR39UN6113X	★	\$269	F1	1.0	16.0/6.2	23	13.20	ES,1
	3600/1800	230	56Z	C1326	5KCR39UN2903X	★	\$274	F1	1.0	6.9/2.6	23	13.20	ES,1
<b>2</b>	3600/1800	230	56Z	C1327	5KCR39UN2904X	★	\$302	F1	1.0	8.8/2.6	23	13.24	ES,1
<b>3</b>	3600/1800	230	56Z	C1504	5KCR39UN6098X	★	\$368	F1	1.0	13.0/3.7	29	14.86	ES,F,1

# Pool (In-Ground)

## Single Compartment, Single Phase, Dripproof, Square Flange



### Features:

- Permanent Split Capacitor (PSC)
- 50° C Ambient
- Fixed CW rotation, viewed opposite shaft end
- Threaded shaft motors are 303 stainless
- UL1081 approved
- UL Recognized and CSA Certified

### Single Speed - Full Rated

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	S.F. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/2</b>	3600	115/230	56Y	RB102	5KCP49JN9157X	★	\$197	F1	1.90	10.0/5.0	23	12.26	
<b>3/4</b>	3600	115/230	56Y	RB103	5KCP49LN9159X	★	\$220	F1	1.65	12.4/6.2	25	12.26	
	3600	115/208-230	56Y	RB133	5KCP48PN9163X	★	\$254	F1	1.65	11.0/5.9-5.5	29	13.02	ES
<b>1</b>	3600	115/230	56Y	RB104	5KCP48NN9161X	★	\$245	F1	1.65	15.6/7.8	29	13.02	
	3600	115/208-230	56Y	RB134	5KCP49RN9164X	★	\$277	F1	1.65	14.0/7.6-7.0	33	13.58	ES
<b>1 1/2</b>	3600	115/230	56Y	RB105	5KCP48PN9158X	★	\$293	F1	1.50	20.6/10.3	31	13.02	
	3600	115/208-230	56Y	RB135	5KCP49SN9166X	★	\$326	F1	1.50	18.2/9.9-9.1	35	13.58	ES
<b>2</b>	3600	230	56Y	RB106	5KCP49RN9160X	★	\$353	F1	1.30	11.3	33	13.58	
	3600	208-230	56Y	RB136	5KCP49TN9173X	★	\$374	F1	1.30	11.0-10.0	38	13.58	ES
<b>3</b>	3600	208-230	56Y	RB107	5KCP49UN9141X		\$448	F1	1.15	14.7-13.4	40	13.58	

### Single Speed - Up Rated

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	S.F. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/2</b>	3600	115/230	56Y	RB111	5KCP49JN9183X	★	\$190	F1	1.30	7.6/3.8	23	12.26	
<b>3/4</b>	3600	115/230	56Y	RB112	5KCP49JN9184X	★	\$197	F1	1.25	10.0/5.0	23	12.26	
	3600	115/208-230	56Y	RB142	5KCP48PN9297X	★	\$230	F1	1.25	8.8/4.8-4.4	31	13.02	ES
<b>1</b>	3600	115/230	56Y	RB113	5KCP49LN9185X	★	\$220	F1	1.25	12.4/6.2	25	12.26	
	3600	115/208-230	56Y	RB143	5KCP48PN9190X	★	\$254	F1	1.25	11.0/5.9-5.5	31	13.02	ES
<b>1 1/2</b>	3600	115/230	56Y	RB114	5KCP48NN9186X	★	\$245	F1	1.10	15.6/7.8	29	13.02	
	3600	115/208-230	56Y	RB144	5KCP49RN9191X	★	\$277	F1	1.10	14.0/7.6-7.0	33	13.58	ES
<b>2</b>	3600	115/230	56Y	RB115	5KCP48PN9187X	★	\$293	F1	1.10	20.6/10.3	31	13.02	
	3600	208-230	56Y	RB145	5KCP49SN9192X	★	\$326	F1	1.10	9.6-8.8	35	13.58	ES
<b>2 1/2</b>	3600	230	56Y	RB116	5KCP49RN9188X	★	\$353	F1	1.04	11.3	33	13.58	
	3600	230	56Y	RB146	5KCP49TN9193X		\$374	F1	1.04	11.0-10.0	38	13.58	ES

### Two Speed - Up Rated

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	S.F. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>3/4</b>	3600/1800	115	56Y	RB203	5KCP48NN9195X	★	\$330	F1	1.67	12.0/4.5	29	13.02	ES
	3600/1800	230	56Y	RB223	5KCP48NN9196X	★	\$330	F1	1.67	5.6/2.3	29	13.02	ES
<b>1</b>	3600/1800	115	56Y	RB204	5KCP48PN9201X	★	\$355	F1	1.65	15.0/5.2	31	13.02	ES
	3600/1800	230	56Y	RB224	5KCP48PN9197X	★	\$355	F1	1.65	7.2/2.7	31	13.02	ES
<b>1 1/2</b>	3600/1800	230	56Y	RB225	5KCP49RN9199X	★	\$402	F1	1.47	9.6/3.3	33	13.58	ES
<b>2</b>	3600/1800	230	56Y	RB206	5KCP49SN9198X	★	\$450	F1	1.30	10.8/3.8	35	13.58	ES

PUMP MOTORS

# Pool (In-Ground)

## Two-Compartment, Single Phase, DripProof, Square Flange



### Features:

- Capacitor start design for high starting torque
- Capacitor start/capacitor run design for higher efficiency, as noted
- 50° C Ambient
- Fixed CW rotation, viewed opposite shaft end
- Threaded shaft motors are 303 stainless
- Voltage selection plug
- UL1081 approved
- UL Recognized and CSA Certified

### Single Speed - Full Rated

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	S.F. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/3	3600	115/230	56Y	C1484	5KC36JN2922X	★	\$190	F1	1.95	8.8/4.4	18	11.60	
1/2	3600	115/230	56Y	C1304	5KC38NN2520X	★	\$197	F1	1.9	11.6/5.8	18	12.60	
	3600	115/208-230	56Y	C1446	5KCR38PN6146X	★	\$230	F1	1.9	9.5/4.9-4.7	19	12.60	1
3/4	3600	115/230	56Y	C1305	5KC38SN6085X	★	\$220	F1	1.65	14.0/7.0	21	12.60	100
	3600	115/208-230	56Y	C1499	5KCR38SN6147X	★	\$254	F1	1.65	12.6/6.5-6.3	21	12.60	1
1	3600	115/230	56Y	C1306	5KC39UN2522X	★	\$245	F1	1.65	18.4/9.2	23	13.10	100
	3600	115/208-230	56Y	C1500	5KCR39UN6148X	★	\$277	F1	1.65	15.4/7.9-7.7	23	13.10	1
1 1/2	3600	115/208-230	56Y	C1307	5KCR48UN2493X	★	\$326	F1	1.5	20.9/10.5-10.4	40	14.90	1
2	3600	115/208-230	56Y	C1308	5KCR48UN2494X	★	\$374	F1	1.3	20.6/10.4-10.3	40	14.90	1
3	3600	208-230	56Y	C1449	5KCR49ZN2499X	★	\$471	F1	1.15	15.5-14.8	49	16.10	1

### Single Speed - Up Rated

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	S.F. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/2	3600	115/230	56Y	C1243	5KC36JN2532X	★	\$190	F1	1.3	8.8/4.4	15	11.60	
3/4	3600	115/230	56Y	C1244	5KC36MN2533X	★	\$197	F1	1.27	11.8/5.9	17	11.60	
1	3600	115/230	56Y	C1245	5KC38SN6084X	★	\$220	F1	1.25	14.0/7.0	21	12.60	
1 1/2	3600	115/230	56Y	C1246	5KC39UN6086X	★	\$269	F1	1.10	18.4/9.2	29	13.10	
2	3600	115/230	56Y	C1247	5KCR39UN6190X	★	\$339	F1	1.10	20.0/10.0	32	14.90	1
	3600	208-230	56Y	C1284	5KCR48UN2496X	★	\$349	F1	1.95	12.2-12.0	32	14.90	
2 1/2	3600	208-230	56Y	C1335	5KCR48UN2492X	★	\$398	F1	1.0	11.5-11.3	40	14.90	1
3	3600	208-230	56Y	C1445	5KCR49ZN2497X	★	\$446	F1	1.0	13.2-13.0	49	16.10	1

### Two Speed - Full Rated

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	S.F. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
3/4	3600/1800	115	56Y	C1450	5KCR48PN2112X	★	\$330	F1	1.65	13.0/3.0	31	14.90	1
	3600/1800	230	56Y	C1310	5KC49PN2113X	★	\$309	F1	1.65	7.3/1.5	31	13.62	
1	3600/1800	230	56Y	C1311	5KC39UN2560T	★	\$332	F1	1.25	7.3/1.8	23	13.12	
1 1/2	3600/1800	230	56Y	C1312	5KCR49SN2095X	★	\$402	F1	1.5	10.0/2.5	41	15.46	1
2	3600/1800	230	56Y	C1313	5KCR49UN2096X	★	\$450	F1	1.3	11.3/3.2	35	16.10	1

# Pool (In-Ground) and Pool Cleaner

## Single Compartment, Single Phase, Dripproof, C-Face Footless, 56C/56J



### Features:

- Permanent Split Capacitor (PSC)
- 50° C Ambient
- Fixed CW rotation, viewed opposite shaft end
- Threaded shaft motors are 303 stainless
- UL1081 approved
- UL Recognized and CSA Certified

### Single Speed - Full Rated

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	S.F. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/2	3600	115/230	56C	RB302	5KCP46JN9210X		\$188	F1	1.6	8.6/4.3	23	11.27	
	3600	115/230	56J	RB502	5KCP46JN9179X		\$195	F1	1.6	8.6/4.3	23	11.88	
	3600	115/208-230	56J	RB532	5KCP49PN9290X	*	\$228	F1	1.95	8.8/4.8-4.4	28	13.0	ES
3/4	3600	115/230	56C	RB303	5KCP46LN9246X		\$212	F1	1.5	11.4/5.7	25	11.27	
	3600	115/230	56J	RB503	5KCP46LN9208X	*	\$218	F1	1.5	11.4/5.7	25	11.88	
	3600	115/208-230	56J	RB533	5KCP49PN9194X	*	\$252	F1	1.5	10.0/5.4-5.0	31	13.0	ES
1	3600	115/230	56C	RB304	5KCP49NN9211X		\$237	F1	1.4	13.6/6.8	29	12.40	
	3600	115/230	56J	RB504	5KCP49NN9178X	*	\$243	F1	1.4	13.6/6.8	29	13.00	
	3600	115/208-230	56J	RB534	5KCP49RN9209X	*	\$275	F1	1.65	14.0/7.6-7.0	33	13.0	ES
1 1/2	3600	115/230	56C	RB305	5KCP49PN9212X		\$284	F1	1.3	18.0/9.0	31	12.40	
	3600	115/230	56J	RB505	5KCP49PN9180X	*	\$291	F1	1.3	18.0/9.0	31	13.00	
	3600	115/208-230	56J	RB535	5KCP48SN9253X	*	\$324	F1	1.3	15.8/8.7-7.9	34	13.15	ES
2	3600	230	56C	RB306	5KCP49RN9216X		\$343	F1	1.2	10.3	33	12.40	
	3600	230	56J	RB506	5KCP49RN9181X	*	\$349	F1	1.2	10.3	33	13.00	
	3600	208-230	56J	RB536	5KCP48TN9220X		\$372	F1	1.2	10.2-9.4	35	13.75	ES
3	3600	208-230	56C	RB307	5KCP48UN9219X		\$440	F1	1.15	14.7-13.4	40	13.15	
	3600	208-230	56J	RB507	5KCP48UN9189X		\$446	F1	1.15	14.7-13.4	40	13.75	

### Single Speed - Up Rated, 56Y/56J

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	S.F. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/2	3600	115/230	56J	RB511	5KCP46JN9252X		\$188	F1	1.3	7.6/3.8	23	11.88	
3/4	3600	115/230	56J	RB512	5KCP46JN9213X	*	\$195	F1	1.0	8.6/4.3	23	11.88	
1	3600	115/230	56J	RB513	5KCP46LN9251X	*	\$218	F1	1.0	10.6/5.3	25	11.88	
1 1/2	3600	115/230	56J	RB514	5KCP49NN9214X	*	\$243	F1	1.0	14.0/7.0	29	13.00	
2	3600	115/230	56J	RB515	5KCP49PN9215X	*	\$291	F1	1.1	20.6/10.3	31	13.00	
2 1/2	3600	230	56J	RB516	5KCP49RN9250X		\$349	F1	1.0	10.5	33	13.00	



### Features:

- Direct replacement for Polaris and Letro pumps
- Switchless and capacitor start
- UL Recognized and CSA Certified

### C-Face Footless

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
3/4	3600	115/230	56CZ	C1502	5KC46KN2408X	*	\$245	F1	1.5	15.0/7.5	24	12.72	2,48
	3600	115/230	56CZ	P730	5KCP49MN9091X	*	\$261	F1	1.5	12.0/6.0	27	13.32	48,97
	3600	115/230	56CZ	C1510	5KCP46KN9075X	*	\$261	F1	1.5	13.5/6.8	24	13.3	48,97



# Pool (In-Ground)

## Two Compartment, Single Phase, DripProof, C-Face Footless, 56C/56J



### Features:

- Capacitor start design for high starting torque
- Capacitor start/capacitor run design for higher efficiency, as noted
- 50° C Ambient
- Fixed CW rotation, viewed opposite shaft end
- Threaded shaft motors are 303 stainless
- Voltage selection plug
- UL1081 approved
- UL Recognized and CSA Certified

### Single Speed - Full Rated

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	S.F. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/2	3600	115/230	56C	C1093	5KC33JN2525X	★	\$188	F1	1.6	9.8/4.9	15	12.01	
	3600	115/230	56C	C1485	5KCR39PN2920X	★	\$210	F1	1.9	9.5/4.7	19	13.47	1
	3600	115/230	56J	C1098	5KC33JN2513X	★	\$195	F1	1.6	9.8/4.9	15	12.42	
	3600	115/230	56J	C1486	5KCR39PN2921X	★	\$216	F1	1.9	9.5/4.7	19	13.98	1
3/4	3600	115/230	56C	C1094	5KC33MN2526X	★	\$212	F1	1.5	13.1/6.5	17	12.01	
	3600	115/230	56C	C1436	5KCR39PN2905X	★	\$234	F1	1.65	11.8/5.9	19	13.47	1
	3600	115/230	56J	C1099	5KC33MN2514X	★	\$218	F1	1.5	13.1/6.5	17	12.42	
	3600	115/230	56J	C1437	5KCR39PN2906X	★	\$241	F1	1.65	11.8/5.9	19	13.98	1
1	3600	115/230	56C	C1095	5KCR39SN2820X	★	\$237	F1	1.5	17.6/8.8	21	13.47	1
	3600	115/230	56C	C1487	5KCR49SN2085X	★	\$258	F1	1.65	15.7/7.8	35	13.80	1
	3600	115/230	56J	C1100	5KCR39SN2818X	★	\$243	F1	1.5	17.6/8.8	21	13.98	1
	3600	115/230	56J	C1488	5KCR49SN2086X	★	\$264	F1	1.65	15.7/7.8	35	14.31	1
1 1/2	3600	115/230	56C	C1096	5KCR49UN2087X	★	\$306	F1	1.5	19.0/9.5	39	13.80	1
	3600	115/230	56J	C1101	5KCR49UN2088X	★	\$313	F1	1.5	19.0/9.5	38	14.31	1
2	3600	230	56C	C1097	5KCR49UN2089X	★	\$355	F1	1.3	11.4	38	13.80	1
	3600	230	56J	C1102	5KCR49UN2090X	★	\$361	F1	1.3	11.4	40	14.31	1
3	3600	230	56C	C1439	5KCR49ZN2111X	★	\$450	F1	1.15	14.8	49	15.64	1
	3600	230	56J	C1440	5KCR49ZN2092X	★	\$457	F1	1.15	14.8	49	16.15	1

### Single Speed - Up Rated

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	S.F. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
3/4	3600	115/230	56J	C1321	5KC33JN2825X	★	\$195	F1	1.0	9.8/4.9	18	12.42	
1	3600	115/230	56J	C1318	5KC39PN2822X	★	\$218	F1	1.0	12.7/6.3	19	13.98	
1 1/2	3600	115/230	56J	C1319	5KCR39SN2823X	★	\$264	F1	1.0	15.8/7.9	21	13.98	1
2	3600	115/230	56J	C1320	5KCR39UN2824X	★	\$313	F1	1.0	19.2/9.6	23	13.98	1
2 1/2	3600	230	56J	C1149	5KCR39UN6181X	★	\$361	F1	1.0	10.4	23	13.98	1

### Two Speed - Full Rated

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	S.F. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/2	3600/1800	115	56C	C1103	5KC33NN2547X	★	\$275	F1	1.65	10.0/2.6	18	12.01	
	3600/1800	115	56J	C1108	5KC33NN2542T	★	\$282	F1	1.65	10.0/2.6	18	12.42	
3/4	3600/1800	115	56C	CG1104	5KC39UN2947T	★	\$300	F1	1.65	14.7/3.5	28	15.10	
	3600/1800	230	56C	CG1105	5KC39UN2943X	★	\$305	F1	1.65	6.8/1.9	23	13.47	
	3600/1800	115	56J	C1109	5KC39UN2948T	★	\$306	F1	1.65	14.7/3.5	29	15.61	
	3600/1800	230	56J	C1110	5KC39UN2942X	★	\$312	F1	1.65	6.8/1.9	23	13.98	
1	3600/1800	230	56C	C1106	5KCR39UN2945X	★	\$329	F1	1.5	7.5/2.7	23	13.47	1
	3600/1800	230	56J	C1111	5KCR39UN2944X	★	\$358	F1	1.5	7.5/2.7	23	13.98	1
1 1/2	3600/1800	230	56C	C1107	5KCR48SN3014X	★	\$399	F1	1.5	10.0/2.5	35	15.08	1
	3600/1800	230	56J	C1112	5KCR48SN3015X	★	\$405	F1	1.5	10.0/2.5	35	15.59	1
2	3600/1800	230	56C	C1442	5KCR48UN3016X	★	\$447	F1	1.3	11.3/3.2	39	15.44	1
	3600/1800	230	56J	C1443	5KCR48UN3017X	★	\$454	F1	1.3	11.3/3.2	40	15.59	1

PUMP MOTORS

# Pool (In-Ground), Spa

## Three Phase, Dripproof



### Features:

- Single Compartment
- 50° C Ambient
- Threaded shaft motors are 303 stainless
- UL1081 approved
- UL Recognized and CSA Certified

### C-Face footless, 56C/56J

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	S.F. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/2	3600	208-230/460	56C	K8000	5K46FN2616		\$243	F1	1.6	2.6-2.6/1.3	20	10.78	
	3600	208-230/460	56J	K8001	5K46FN2629		\$249	F1	1.6	2.9-2.8/1.4	15	11.82	
3/4	3600	208-230/460	56C	K8002	5K49GN2617		\$267	F1	1.5	3.4-3.4/1.7	21	11.38	
	3600	208-230/460	56J	K8003	5K49GN2628		\$273	F1	1.5	3.4-3.4/1.7	21	12.50	
1	3600	208-230/460	56C	K8004	5K49JN2618	*	\$291	F1	1.4	4.2-4.2/2.1	23	11.38	
	3600	208-230/460	56J	K8005	5K49JN2631	*	\$298	F1	1.4	4.2-4.2/2.1	23	12.50	
1 1/2	3600	208-230/460	56C	K8006	5K46KN2569	*	\$339	F1	1.3	6.5-6.0/3.0	24	10.78	
	3600	208-230/460	56J	K8007	5K49KN2619	*	\$345	F1	1.3	6.5-6.0/3.0	24	11.29	
2	3600	208-230/460	56C	K8008	5K49NN2571		\$387	F1	1.2	7.1-7.0/3.5	29	11.91	
	3600	208-230/460	56J	K8009	5K49NN2575		\$393	F1	1.2	7.1-7.0/3.5	29	13.00	
3	3600	208-230/460	56C	K8010	5K48TN2570		\$484	F1	1.15	10.5-9.4/4.7	38	12.66	
	3600	208-230/460	56J	K8011	5K48TN2576		\$490	F1	1.15	10.5-9.4/4.7	38	13.75	

### Square Flange

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	SERVICE FACTOR	S.F. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/2	3600	208-230/460	56Y	K8012	5K49FN2613		\$252	F1	1.6	2.6-2.6/1.3	20	12.27	
3/4	3600	208-230/460	56Y	K8013	5K49GN2614	*	\$275	F1	1.65	4.0-4.0/2.0	21	12.27	
1	3600	208-230/460	56Y	K8014	5K48JN2615	*	\$300	F1	1.4	4.2-4.2/2.1	23	13.02	
1 1/2	3600	208-230/460	56Y	K8015	5K49KN2567	*	\$347	F1	1.3	6.5-6.0/3.0	24	12.27	
2	3600	208-230/460	56Y	K8016	5K48NN2566	*	\$396	F1	1.3	7.0-6.6/3.3	29	13.02	
3	3600	208-230/460	56Y	K8017	5K49TN2568		\$492	F1	1.15	10.5-9.4/4.7	38	13.54	

# Aeration Fan, Farm / Agricultural Duty, Single Phase

## TEAO, Rigid Base

HVAC



**Applications:** Direct drive vane axial fans. These totally enclosed/air over motors must be mounted within the airstream for proper cooling. These aeration fan motors are often used in agricultural applications.

- Features:**
- Capacitor start design for high starting torque
  - 1.0 Service Factor except as noted
  - UL Recognized and CSA Certified
  - 18" Leads for ease of connection
  - 56Z & 143-5TZ have keyway and 1/4" x 20" UNC tapped hole

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>3/4</b>	3600	115/230	56Z	AUTO	C1467	5KC37NN3544T	*	\$260	F1	9.8/4.9	20	11.26	10
<b>1</b>	3600	115/230	56Z	AUTO	C1468	5KC49NN2081T	*	\$288	F1	13.0/6.5	26	11.74	10
<b>1 1/2</b>	3600	115/230	143TZ	AUTO	C1273	5KC49SN8060T	*	\$581	S1	16.4/8.2	35	12.28	
<b>2</b>	3600	115/230	145TZ	AUTO	C1274	5KCR49TN8058T	*	\$711	S1	17.8/8.9	37	12.28	1,18
<b>3</b>	3600	230	145T	AUTO	C1275	5KCR49ZN8061T	*	\$969	S1	13.2	49	13.69	1,18

# Attic Fan, Split Phase

## Dripproof, Air Over, Resilient Base



- Features:**
- Variable torque on two speed motors
  - 48Y Frame has 48/56 Frame mounting holes
  - 56YZ frame with 3" shaft height, 1/2" diameter shaft, and 5/8" adapter with keyway included
  - UL Recognized and CSA Certified

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/3</b>	1800/1200	115	48Y	AUTO	B402	48S17D7209	*	\$209	F1	5.3/2.9	21	10.31	
	1800	115	48Y	AUTO	B400	48S17D997	*	\$138	F1	6.6	14	9.34	
<b>1/2</b>	1800	115	56YZ	AUTO	B401	56S17D2062	*	\$172	F1	7.8	18	10.47	53

## Centrifugal Fan, Single Phase

### Dripproof, Rigid Base

**Applications:** Direct drive centrifugal fans installed in relatively clean and dry applications.

- Features:**
- Capacitor start/capacitor run design for high starting torque and low amps
  - Ball bearings, mechanically locked on shaft end
  - Heavy gauge steel frame and base
  - Shafts are 1" longer than NEMA standard for extra clearance
  - Rodent screens
  - Thermostats for thermal overload protection
  - 1.15 Service Factor (unless otherwise noted)
  - UL Recognized and CSA Certified

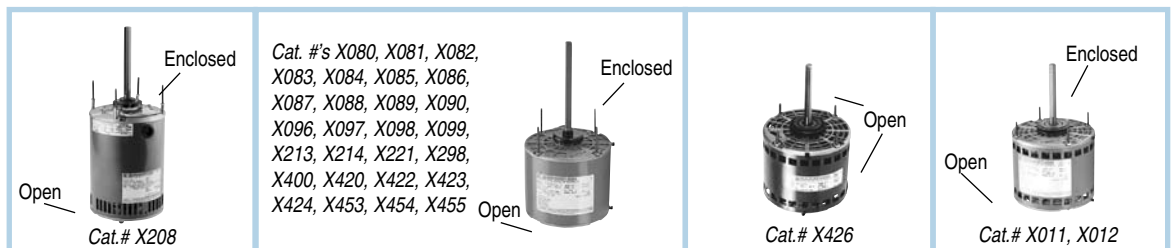
HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
5	1800	208-230	184TZ	Z1124	184TBDW7369		\$1,388	S1	23.0-21.0	82	16.72	13
7 1/2	1800	208-230	215TZ	Z125	215TBDR7361		\$1,837	S1	35.2	135	19.19	
10	1800	230	215TZ	Z126	215TBDW7362		\$1,939	S1	44.0	158	18.70	
15	1800	230	256TZ	Z127	256TBDX7028		\$2,404	S1	61.0	187	24.06	17

## Condenser Fan/Heat Pump, PSC, Open Air Over

### Thru-Bolt, Shaft Up or Horizontal

**Applications:** Direct drive condenser fans mounted vertically, shaft up. Models with open brackets should be mounted where they are shielded from rain. These motors need to be mounted within the airflow of the fan for proper cooling.

- Features:**
- Frame and shaft end bracket enclosed, except X011, X012, and X208 have open frames and X426 has open frame and brackets
  - **Single and multi-speed models as noted**
  - Ball bearings
  - Weather resistant reversing plug
  - 30" long leads
  - Shaft with flat, unless otherwise noted
  - **60°C ambient (as noted)**
  - Shaft slinger
  - 1-5/8" Extended thru-bolts on shaft end, except where noted
  - Automatic reset thermal protector
  - Lug mount kits and other accessories available, see Accessories section
  - UL Recognized and CSA Certified
  - **Capacitor not included, see Accessories section**



HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.	FOOT NOTES
1/4	1625/1	208-230	48Y	X012	48A17O2006	★	\$147	F1	1.8-1.8	12	4 1/2	1/2 x 6	30,34,44
	1625/1	460	48Y	X420	48A17O169	★	\$197	F1	1.0	12	4	1/2 x 6	34
	1075/2	208-230	48Y	X081	48A11O2031	★	\$164	F1	1.9-1.9	12	4 1/4	1/2 x 6	
	1075/2	208-230	48Y	X080	48A11O2030	★	\$146	F1	1.9-1.9	12	4 1/4	1/2 X 6	d
	1075/1	208-230	48Y	X213	48A11O1524	★	\$140	F1	1.4-1.2	12	4 1/4	1/2 X 6	21
	1075/1	208-230	48Y	X087	48A11O2029	★	\$133	F1	2.0-2.0	12	4 1/4	1/2 x 6	
	1075/1	460	48Y	X423	48A11O2055	★	\$152	F1	1.0	13	4 1/4	1/2 x 6	36
	825/1	208-230	48Y	X097	48A8O182	★	\$197	F1	1.8-1.8	13	4 1/2	1/2 x 6	
1/3	1625/3	208-230	48Y	X011	48A17O2005	★	\$158	F1	2.3-2.3	14	4 3/4	1/2 x 6	30,34,44
	1075/2	208-230	48Y	X083	48A11O2034	★	\$174	F1	3.0-3.0	18	4 3/4	1/2 x 6	
	1075/2	208-230	48Y	X082	48A11O2033	★	\$159	F1	3.0-3.0	14	4 3/4	1/2 x 6	d

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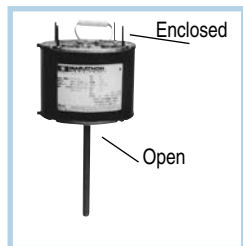
# Condenser Fan/Heat Pump, PSC, Open Air Over

## Thru-Bolt, Shaft Up or Horizontal

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.	FOOT NOTES
<b>1/3</b>	1075/1	208-230	48Y	X214	48A11O1525	★	\$139	F1	2.3-2.6	139	4 1/2	1/2 x 6	45
	1075/1	208-230	48Y	X088	48A11O2032	★	\$143	F1	3.0-3.0	143	4 3/4	1/2 x 6	
	1075/1	460	48Y	X424	48A11O2054	★	\$172	F1	1.4	172	4 3/4	1/2 x 6	36
	825/1	208-230	48Y	X086	48A8O2001	★	\$221	F1	2.4-2.4	221	5 1/4	1/2 x 6	
<b>1/2</b>	1625/1	460	48Y	X422	48A17O172	★	\$249	F1	1.7	249	5	1/2 x 6	36
	1625/1	575	48Y	X454	48A17O250	★	\$249	F1	1.35	249	5	1/2 x 6	36
	1075/1	208-230	48Y	X096	48A11O840	★	\$191	F1	4.2-4.2	191	5 1/2	1/2 x 6	
	1075/1	208-230	48Y	X221	48A11O1526	★	\$169	F1	2.7-2.6	169	5	1/2 x 6	45
	1075/1	460	48Y	X400	48A11O2017	★	\$194	F1	1.8	194	5	1/2 x 6	35
	1075/1	575	48Y	X453	48A11O1771	★	\$194	F1	1.15	194	5	1/2 x 6	35
	825/1	208-230	48Y	X098	48A8O181	★	\$266	F1	3.3-3.3	266	5 1/2	1/2 x 6	
	825/1	208-230	56Z	X208	56A8O5	★	\$407	F1	3.4-3.4	407	8 5/8	5/8 x 6 w/key/flat	30
<b>3/4</b>	1075/2	208-230	48Y	X085	48A11O678	★	\$221	F1	5.1-5.1	221	5 1/2	1/2 x 6	
	1075/1	208-230	48Y	X298	48A11O2059	★	\$185	F1	4.0-4.2	185	5 1/4	1/2 x 6	
	1075/1	208-230	48Y	X090	48A11O2007	★	\$209	F1	4.6-4.6	209	5 1/2	1/2 x 6	
	1075/1	460	48Y	X099	48A11O2016	★	\$223	F1	2.5	223	5 1/2	1/2 x 6	34
	1075/1	460	48YZ	X426	48A11O1375	★	\$270	F1	2.2	270	5 1/2	5/8 x 4.5 w/key	69
	1075/1	575	48Y	X455	48A11O1770	★	\$223	F1	1.7	223	5 1/2	1/2 x 6	35
<b>1</b>	1075/1	200-230/460	56Z	P190	5KCP49ZN9617T	★	\$477	F1	6.7-6.8/3.4	477	9.0	5/8 x 4	

# Condenser Fan/Heat Pump, PSC, Open Air Over

## Thru-Bolt Mount, Shaft Down



**Applications:** Direct drive condenser fans mounted vertically, shaft down. These motors need to be mounted within the airflow of the fan for proper cooling.

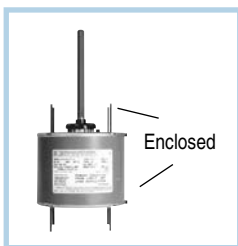
- Features:**
- Frame and opposite shaft end bracket are enclosed for vertical shaft down mounting
  - Weather resistant reversing plug
  - 30" Long leads
  - Shaft slinger
  - 1-1/4" Extended thru-bolts on shaft end, except where noted
  - Automatic reset thermal protector
  - Ball Bearings
  - UL Recognized and CSA Certified
  - **Capacitor not included, see Accessories section**

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.	FOOT NOTES
<b>1/8</b>	825	208-230	48Y	X278	48A8O206	★	\$181	F1	0.9-0.9	11	4 1/4	1/2 X 4 3/4	37,44
<b>1/6</b>	1075	208-230	48Y	X440	48A11O2065	★	\$119	F1	1.0-0.9	10	4	1/2 X 6	
<b>1/5</b>	1075	208-230	48Y	X216	48A11O1097	★	\$133	F1	1.8-1.6	10	3 3/4	1/2 X 6	37,44,60
<b>1/4</b>	1075	208-230	48Y	X441	48A11O2062	★	\$146	F1	1.35-1.35	12	4 1/4	1/2 X 6	
<b>1/3</b>	1075	208-230	48Y	X442	48A11O2064	★	\$156	F1	2.0-1.95	14	4 3/4	1/2 X 6	
	1075	208-230	48Y	X297	48A11T509	★	\$141	F1	1.8-1.8	12	4 1/4	1/2 X 3 3/4	N29,41,60
<b>1/2</b>	1075	208-230	48Y	X443	48A11O2063	★	\$173	F1	3.9-3.9	18	5 1/4	1/2 X 6	
<b>3/4</b>	1075	208-230	48Y	X444	48A11O1596	★	\$230	F1	4.3-4.7	18	5 1/2	1/2 X 6	



## Condenser Fan/Heat Pump, PSC, Open Air Over

### 48 Frame, Thru-Bolt, All-Angle



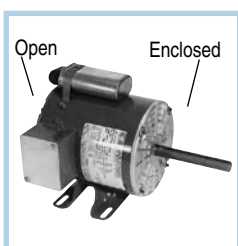
**Applications:** Direct drive condenser fans for all angle mounting. These motors need to be mounted within the airflow of the fan for proper cooling.

- Features:**
- Frame and end brackets enclosed
  - **Single and multi-speed models, as noted**
  - Ball bearings (except as noted)
  - Weather resistant reversing plug
  - 30" long leads
  - Shaft slinger
  - 1-1/2" Thru-bolts on shaft end, 1" thru-bolts on lead end (except as noted)
  - Automatic reset thermal protector
  - Weep holes with removable plugs on end brackets. Remove bottom plug after installation.
  - Lug mount kits and other accessories available (see Accessories section)
  - **60°C ambient, as noted**
  - UL Recognized and CSA Certified
  - **Capacitor not included, see Accessories section**

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.	FOOT NOTES
1/6	1075/2	208-230	48Y	X429	48A11T2020	★	\$160	F1	1.3-1.3	11	4	1/2 x 6	36
	1075/1	208-230	48Y	X411	48A11T2008	★	\$152	F1	1.3-1.3	10	3 3/4	1/2 x 6	
	825/1	208-230	48Y	X465	48A8T11002	★	\$160	F1	1.1-1.1	12	4 1/4	1/2 x 6	45
1/4	1625/1	208-230	48Y	X467	48A17T87	★	\$143	F1	2.0-2.0	12	4 1/2	1/2 x 6	21,36
	1625/2	208-230	48Y	X463	48A17T356	★	\$164	F1	1.4-1.4	13	4 1/2	1/2 x 6	45,94
	1075/2	208-230	48Y	X430	48A11T463	★	\$174	F1	1.8-1.8	16	4 1/2	1/2 x 6	36
	1075/1	208-230	48Y	X412	48A11T569	★	\$169	F1	1.4-1.4	16	4 1/4	1/2 x 6	45
	1075/1	460	48Y	X456	48A11T578	★	\$174	F1	0.75	15	4 1/2	1/2 x 6	45
	840/1	208-230	48Y	X450	48A8T71	★	\$164	F1	1.9-1.9	17	5 1/4	1/2 x 6	45
	1625/1	208-230	48Y	X466	48A17T86	★	\$157	F1	2.0-2.0	15	5	1/2 x 6	21,36
1/3	1075/2	208-230	48Y	X415	48A11T2012	★	\$186	F1	2.6-2.6	16	5	1/2 x 6	36
	1075/1	208-230	48Y	X413	48A11T529	★	\$183	F1	1.9-1.9	14	4 3/4	1/2 x 6	45
	1075/1	460	48Y	X457	48A11T579	★	\$185	F1	0.9	17	5	1/2 x 6	36,45
	825/1	208-230	48Y	X451	48A8T72	★	\$173	F1	2.3-2.3	19	5 3/4	1/2 x 6	34,45
	1625/1	208-230	48Y	X468	48A17T96		\$177	F1	2.9-2.6	16	5 1/4	1/2 x 6	21
1/2	1625/2	208-230	48Y	X464	48A17T359		\$199	F1	3.1-2.9	17	5 1/4	1/2 x 6	45
	1075/2	208-230	48Y	X416	48A11T2013	★	\$204	F1	4.2-4.2	19	5 1/2	1/2 x 6	36
	1075/1	208-230	48Y	X414	48A11T571	★	\$201	F1	2.7-2.7	17	5	1/2 x 6	36,45
	1075/1	460	48Y	X458	48A11T580	★	\$204	F1	1.4	20	5 1/2	1/2 x 6	36,45
	825/1	208-230	48Y	X452	48A8T73	★	\$213	F1	3.1	21	6 1/4	1/2 x 6	45
	1625/1	208-230	48Y	X469	48A11T276	★	\$177	F1	4.2-3.65	21	6	1/2 x 6	21,63
	1075/1	460	48Y	X459	48A11T581	★	\$230	F1	2.1	23	6	1/2 x 6	32,45
1	1075/1	460	48Y	X462	48A11T619	★	\$272	F1	3.4	27	7 1/4	1/2 x 6	32,45

## Condenser Fan/Heat Pump, PSC, Open Air Over

### Rigid Base, Shaft Up or Horizontal



**Applications:** Condenser fans, installed outdoors. These motors need to be mounted within the airflow of the fan for proper cooling.

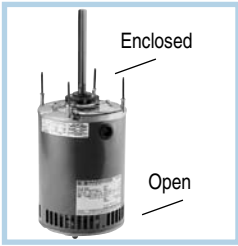
- Features:**
- Frame and shaft end bracket enclosed
  - Heavy gauge steel constructions
  - 56Y frame has non-NEMA BA dimension of 1.97"
  - Automatic reset thermal protector
  - Flat and keyway on shaft
  - Ball Bearings
  - UL Recognized and CSA Certified
  - **Capacitor included on X432, see Accessories section to order capacitor for X433**

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.
3/4	1075	208-230/460	56YZ	X432	56A11O29	★	\$334	F1	4.6-4.4/2.2	22	11.88	5/8 x 4 1/2
1	1075	208-230/460	56YZ	X433	56A11O30	★	\$398	F1	5.8-5.4/2.7	27	12.38	5/8 x 4 1/2

# Condenser Fan/Heat Pump, PSC

## 56 Frame, Resilient Ring, Thru-Bolt

HVAC



**Applications:** Direct drive condenser fans mounted vertically, shaft up or horizontal. These motors need to be mounted within the airflow of the fan for proper cooling.

- Features:**
- Enclosed shaft end bracket with vented frame
  - Ball bearings
  - 30" long leads (except P243)
  - Shaft slinger
  - **60°C ambient, as noted**
  - Automatic reset thermal protector
  - Flat & keyway on shaft
  - UL Recognized and CSA Certified
  - **Capacitor not included, see Accessories section**

### Open Air Over, Shaft Up

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.	FOOT NOTES
3/4	1075	208-230/460	56Y	X207	56A11O5311	★	\$377	F1	3.9-3.6/1.8	31	8 1/4	5/8 x 6	37,45
1	1075	208-230/460	56Y	X206	56A11O5310	★	\$398	F1	5.4-5.2/2.6	34	10 1/16	5/8x6	37
1 1/2	1075	208-230/460	56Y	X271	56A11O5305	★	\$454	F1	7.7-7.6/3.8	43	9 3/4	5/8 x 6	34,45

### Dripproof

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.	FOOT NOTES
1/2	825/1	115/208-230	56Y	P245	5KCP49PN9812S	★	\$513	F1	6.2/3.8-3.1	31	13.66	5/8 X 6	
	825/1	208-230	56Y	P246	5KCP49UN9811S	★	\$556	F1	5.8-5.6	32	14.47	5/8 X 6	
1	1075/3	115	56Y	P184	5KCP49UN9612S	★	\$532	F1	10.8	40	14.87	5/8 x 6	
	1075/3	200-230	56Y	P185	5KCP49UN9614S	★	\$532	F1	4.8-5.0	34	14.87	5/8 X 6	
	825/1	208-230/460	56Y	P180	5KCP49WN9813S	★	\$586	F1	6.3-6.4/3.2	39	11.24	5/8 x 6	

# Commercial Condenser Fan/Heat Pump, PSC

## Open Air Over, Belly Band, Shaft Up



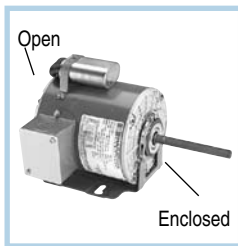
**Applications:** Heavy duty design for commercial direct drive condenser fans mounted vertically, shaft up. These motors need to be mounted within the airflow of the fan for proper cooling.

- Features:**
- Open frame and end brackets
  - Shaft with flat, unless otherwise noted
  - Unique Rain Shield fits over shaft to protect motor in vertical shaft up position
  - Shaft slinger
  - Automatic reset thermal protector
  - **60°C ambient (as noted)**
  - Ball bearings
  - UL Recognized and CSA Certified
  - **Capacitor not included, see Accessories section**

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.	FOOT NOTES
0.4	1075	200-230/460	48Y	X445	48A11O1732		\$204	F1	3.0-2.8/1.4	29	5 1/2	1/2 x 4	
0.6	1075	200-230/460	48Y	X446	48A11O1643	★	\$225	F1	3.0-3.6/1.8	20	6 7/8	1/2 x 4	
0.8	1075	200-230/460	48Y	P193	5KCP395NB4805	★	\$252	F1	4.0/2.0	21	14.19	1/2 x2 3/4	d
	1075	200-230/460	48Y	P194	5KCP39SNB481S	★	\$301	F1	4.0/2.0	21	9 1/3	5/8 x 4 7/8	d
	1075	200-230/460	48Y	X447	48A11O1642	★	\$301	F1	5.0-4.4/2.2	27	8 3/4	1/2 x 4	45
1	1075	200-230/460	48Y	P195	5KCP39SNB482S	★	\$325	F1	5.6/2.8	21	10 5/8	5/8 x 5 1/4 w/key/flat	
	1075	200-230/460	56Y	X448	56A11O5314	★	\$325	F1	6.0-5.2/2.6	33	8 3/4	5/8 x 4 w/key/flat	45
	1075	575	56Y	P196	5KCP39TNB763T	★	\$325	F1	2.6	22	10 1/4	1/2 x 5 1/4	
1.5	1075	200-230/460	56Y	P197	5KCP39UNB767T	★	\$373	F1	8.1-7.8/3.9	23	10 1/4	5/8 spcl.	d
	1075	200-230/460	56Y	X449	56A11O5315	★	\$373	F1	7.0-7.0/3.5	39	9 1/4	5/8 x 4	45
	1075	575	56Y	P198	5KCP39UNB764T	★	\$373	F1	3.5	23	10 1/4	1/2 x 5 1/4	

# Commercial Condenser Fan/Heat Pump, PSC

## Resilient Base, Shaft Up or Horizontal



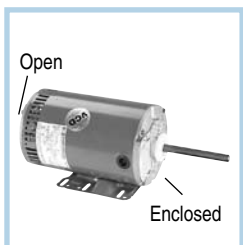
**Applications:** Condenser fans, installed outdoors. These motors need to be mounted within the airflow of the fan for proper cooling.

- Features:**
- Frame and shaft end bracket enclosed
  - Automatic reset thermal protector
  - Ball bearings
  - UL Recognized and CSA Certified
  - **Capacitor included**

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.
1/2	1075	208-230/460	48YZ	X431	48A11O1461	*	\$263	F1	3.0-3.0/1.5	19	11.94	1/2 x 4 1/2

# Commercial Condenser Fan/Heat Pump, Three Phase

## Open Air Over, Rigid Base, Shaft Up or Horizontal



**Applications:** Commercial condenser fans may be installed outdoors. These motors need to be mounted within the airflow of the fan for proper cooling. Used on Trane, Carrier, Climtrol and York units, 5 tons and larger.

- Features:**
- 70°C ambient (except as noted)
  - Enclosed shaft end bracket, vented frame
  - Continuous duty, air over
  - Automatic reset thermal protector
  - Shaft slinger
  - Threaded lead exit
  - Nameplated 60/50 hertz 190/380 volts, at next lower HP
  - Double sealed ball bearings
  - Flat and keyway on shaft
  - Patented VCD™ - Voltage Change Device (as noted)
  - Ball Bearings
  - UL Recognized and CSA Certified



HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	SHAFT DIM.	FOOT NOTES
1/3	1140	208-230/460	56Z	X532	56T11O11001	*	\$355	F1	1.8-1.8/0.9	22	13.37	1/2 x 5	45,50
1/2	1140	208-230/460	56Z	X533	56T11O11002	*	\$382	F1	2.1-2.0/1.0	20	13.37	5/8 x 5	45,50
	850	208-230/460	56HZ	X529	56T8O5531	*	\$547	F1	2.9-3.0/1.5	31	14.68	5/8 x 5	VC,5
3/4	1140	208-230/460	56HZ	X512	56T11O15511	*	\$425	F1	2.7-3.0/1.5	27	14.18	5/8 x 5	VC,5
1	1140	208-230/460	56HZ	K1485	5K49RN6118S	*	\$435	F1	4.2-4.0/2.0	33	16.02	5/8 X 6	d,46
	1140	208-230/460	56HZ	X513	56T11O5305	*	\$461	F1	4.1-4.2/2.1	29	14.68	5/8 x 5	VC,5
	850	208-230/460	56HZ	X528	56T8O5306	*	\$614	F1	5.1-5.3/2.65	49	17.06	5/8 x 5	VC,5
1 1/2	1140	208-230/460	56HZ	K1486	5K48TN6119S	*	\$473	F1	5.1-5.0/2.5	38	16.77	5/8 X 6	46
	1140	208-230/460	56HZ	X523	56T11O5306	*	\$501	F1	5.45-5.4/2.7	36	15.68	5/8 x 5	VC,5
	850	208-230/460	56HZ	X531	56T8O15504	*	\$668	F1	7.0-7.0/3.5	47	16.68	5/8 x 5	VC,5
2	1140	208-230/460	56HZ	X525	56T11O5310	*	\$543	F1	7.2-6.8/3.4	47	16.68	5/8 x 5	VC,5

# Condenser Fan/Heat Pump, Three Phase

## Open Air Over, Belly Band/Resilient Ring



**Applications:** Commercial condenser fans may be installed outdoors. These motors need to be mounted within the airflow of the fan for proper cooling. Used on Trane, Carrier, Climatrol and York units, 5 tons and larger.

**Features:**

- 70°C ambient (except as noted)
- Enclosed shaft end bracket, vented frame
- Automatic reset thermal protector
- Nameplate 60/50 hertz 190/380 volts, at next lower HP (except as noted)
- Double sealed ball bearings
- 5/8" Dia. x 5" long shaft with flat and keyway
- Ball bearings
- Threaded lead exit
- Patented VCD™ - Voltage Change Device
- 4 Locating screws 90 degrees apart, 3.33" from outer edge of shaft slinger
- Hubs on both ends will accept resilient base kits, see Accessories section (except X524 and X526 - horizontal only)
- UL Recognized and CSA Certified
- External shaft slinger on all, internal slinger on 5K models



HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	FOOT NOTES
1/3	850	208-230/460	56Y	X511	56T8O5303	★	\$493	F1	2.3-2.5/1.25	23	9 1/2	VC
1/2	1140	200-230/460	56Y	X500	56T11O5300	★	\$392	F1	2.4-2.7/1.35	21	9.00	VC
	1140	575	56Y	K1500	5K49MN6432S	★	\$467	F1	1.0	27	9.49	33,46
3/4	1140	208-230/460	56Y	K378	5K46LN6033S	★	\$410	F1	3.0-3.4/1.7	25	8.89	d,46
	1140	200-230/460	56Y	X501	56T11O5301	★	\$434	F1	3.1-3.2/1.6	24	9.50	VC
	1140	575	56Y	K1505	5K46LN6428S	★	\$490	F1	1.5	25	8.89	33,46
	850	208-230/460	56Y	X506	56T8O5301	★	\$574	F1	3.6-3.6/1.8	39	11.00	VC
1	1140	208-230/460	56Y	K379	5K49RN6034S	★	\$429	F1	4.2-4.0/2.0	33	10.02	46
	1140	200-230/460	56Y	X502	56T11O5302	★	\$455	F1	4.0-4.2/2.1	28	10.00	VC
	1140	575	56Y	X522	56T11O5308	★	\$427	F1	1.7	28	10.00	70
	1140	575	56Y	K1510	5K49RN6429S	★	\$427	F1	1.6	33	16.02	d,33,46
	850	208-230/460	56Y	K1482	5K48WN3013S	★	\$563	F1	5.1-5.2/2.6	44	10.77	46
	850	200-230/460	56Y	X507	56T8O5302	★	\$597	F1	5.3-5.3/2.6	46	12.00	VC
	850	575	56Y	K1511	5K48WN3181S	★	\$563	F1	2.0	44	10.77	d,33,46
	850	575	56Y	X527	56T8O5304	★	\$597	F1	2.1	46	12.00	70
1 1/2	1140	200-230/460	56Y	X503	56T11O5303	★	\$497	F1	5.5-5.4/2.7	35	11.00	VC
	1140	575	56Y	X524	56T11O5307	★	\$497	F1	2.2	35	11.00	73
	1140	575	56Y	K1515	5K48TN6430S	★	\$467	F1	2.2	38	10.77	d,33,46
	850	208-230/460	56Y	X530	56T8O5307	★	\$643	F1	7.5-6.8/3.4	47	11.25	VC
2	1140	208-230/460	56Y	X509	56T11O5304	★	\$539	F1	7.2-6.8/3.4	49	12.00	VC
	1140	575	56Y	K1520	5K49ZN6433S	★	\$497	F1	2.5	49	11.97	d,33,46
	1140	575	56Y	X526	56T11O5309	★	\$539	F1	2.7	45	11.63	73

### Shaft Up with Fan Canopy / Rainshield

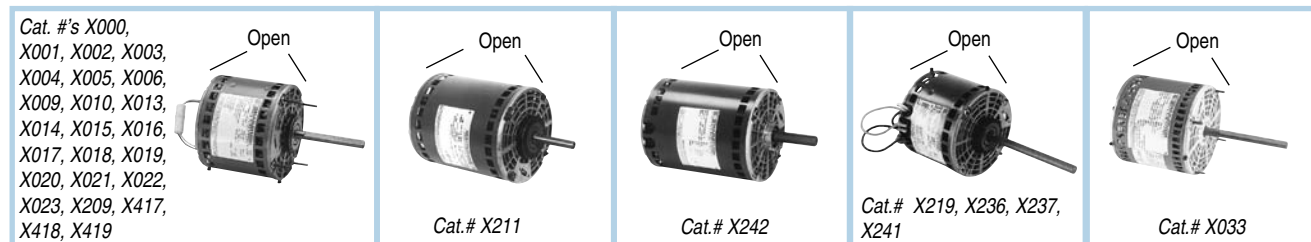
HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	FOOT NOTES
1/2	1140	200-230/460	48Y	K1403	5K36PN345S	★	\$465	F1	2.2-2.6/1.3	20	7.95	46
3/4	1140	200-230/460	48Y	K1404	5K38SN267S	★	\$489	F1	3.3-3.8/1.9	24	8.95	46
	1140	575	48Y	K1405	5K39SNB765T	★	\$519	F1	1.5	21	8.50	46
1	1140	200-230/460	48Y	K1402	5K39SNB505S	★	\$539	F1	4.4-4.0/2.0	21	8.50	46
1 1/2	1140	200-230/460	48Y	K1407	5K39SNB587S	★	\$590	F1	6.0-5.8/2.9	21	10.63	46

# Fan and Blower - Direct Drive, PSC

## Open Air Over, Resilient Ring, Thru-Bolt Mount

### Features:

- Open frames and brackets (except X011 and X012 have enclosed shaft end bracket)
- **Single and multi-speed models as noted**
- Grommeted lead exit
- Weather resistant reversing plug
- 2-1/4" resilient ring mounting except where noted (base not included, see Accessories section)
- 2 1/2" adapter rings supplied, shipped loose in box
- Extended thru-bolts on shaft end
- 30" long leads
- Automatic reset thermal protector
- Ball bearings
- UL Recognized and CSA Certified
- **Capacitor not included, see Accessories section**



HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.	FOOT NOTES
<b>1/5</b>	1075/3	115	48Y	X219	48A11O2047	★	\$132	F1	3.5	11	4	1/2 x 4	39
<b>1/4</b>	1625/3	115	48Y	X013	48A17O152	★	\$145	F1	2.9	12	5	1/2 x 4	32
	1625/3	208-230	48Y	X014	48A17O154	★	\$147	F1	1.8-1.35	11	4 1/4	1/2 x 4	32
	1625/1	208-230	48Y	X012	48A17O2006	★	\$147	F1	1.8-1.8	12	4 1/2	1/2 x 6	34,44
	1075/3	115	48Y	X000	48A11O1798	★	\$139	F1	3.4	12	4 1/4	1/2 x 4	32
	1075/3	208-230	48Y	X001	48A11O1799	★	\$143	F1	1.5-1.5	12	4 1/2	1/2 x 4	32
	1075/3	277	48Y	X018	48A11O1350	★	\$149	F1	1.6	11	4 1/4	1/2 x 4	32
	1075/1	208-230	48Y	X006	48A11O2001	★	\$137	F1	2.0-2.0	11	4 1/4	1/2 x 4	32
	1075/1	208-230	48Y	X417	48A11O2051	★	\$146	F1	2.0-2.2	13	4 1/4	1/2 x 6	51,116
<b>1/3</b>	1625/3	115	48Y	X015	48A17O151	★	\$154	F1	4.0	13	4 3/4	1/2 x 4	32
	1625/3	208-230	48Y	X011	48A17O2005	★	\$158	F1	2.3-2.3	14	4 3/4	1/2 x 6	34,44
	1075/4	115	48Y	X236	48A11O699	★	\$173	F1	6.4	16	4 3/4	1/2 x 6	39
	1075/4	208-230	48Y	X237	48A11O694	★	\$176	F1	4.8-4.8	16	5 1/4	1/2 x 6	39
	1075/3	115	48Y	X002	48A11O1769	★	\$149	F1	4.6	14	4 3/4	1/2 x 4	32
	1075/3	208-230	48Y	X003	48A11OB2042	★	\$152	F1	3.3-3.3	14	4 3/4	1/2 x 4	32
	1075/3	277	48Y	X019	48A11O1351	★	\$159	F1	2.7	15	4 3/4	1/2 x 4	32
	1075/2	460	48Y	X037	48A11O1876	★	\$299	F1	1.0	14	4 3/4	1/2 X 6	51
	1075/1	208-230	48Y	X418	48A11O2052	★	\$155	F1	3.1-3.1	14	4 1/2	1/2 x 6	51,116
	825/1	230	48Y	X209	48A8O183	★	\$190	F1	2.8	17	5 3/4	1/2 x 5 1/2	34,43
<b>1/2</b>	1625/3	115	48Y	X016	48A17O153	★	\$172	F1	5.0	16	5 1/4	1/2 x 4	32
	1625/3	208-230	48Y	X017	48A17O155	★	\$174	F1	4.1-4.1	16	5 1/4	1/2 x 4	32
	1075/4	115	48Y	X033	48A11O1674	★	\$145	F1	6.1	15	5	1/2 x 5	31,73
	1075/3	115	48Y	X004	48A11O1755	★	\$168	F1	6.2	17	5 1/2	1/2 x 4	32
	1075/3	208-230	48Y	X005	48A11O1756	★	\$170	F1	2.65-2.6	17	5 1/2	1/2 x 4	32
	1075/3	277	48Y	X020	48A11O1352	★	\$177	F1	3.6	17	5 1/2	1/2 x 4	32
	1075/1	208-230	48Y	X419	48A11O2053	★	\$173	F1	4.2	17	5 1/4	1/2 x 6	51,116
<b>3/4</b>	1625/3	230	48Y	X022	48A17O174	★	\$191	F1	3.7	18	5 1/2	1/2 x 5 1/2	39,43
	1075/4	208-230	48Y	X241	48A11O697	★	\$223	F1	5.4-5.4	17	5 1/2	1/2 x 6	39
	1075/3	115	48Y	X009	48A11O787	★	\$196	F1	10.2	20	5 3/4	1/2 x 4	32
	1075/3	208-230	48Y	X010	48A11O2046	★	\$199	F1	5.6	19	5 1/2	1/2 x 4	32
	1075/3	277	48Y	X021	48A11O1353	★	\$204	F1	5.0	20	5 3/4	1/2 x 4	32
<b>1</b>	1625/2	208-230	48Y	X211	48A17O125	★	\$248	F1	6.2	20	6 1/4	1/2 x 2 1/2	39,42,43
	1075/3	230	48Y	X023	48A11O1583	★	\$227	F1	5.3	24	6 1/2	1/2 x 5	34
	1075/3	208-230	48YZ	X242	48A11O756	★	\$377	F1	6.2	26	7 1/4	5/8 x 4	39,51



## Fan and Blower - Direct Drive, PSC

### Open Air Over, Resilient Ring

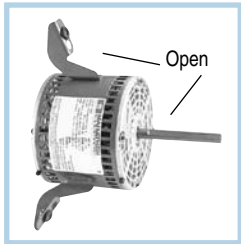
**Applications:** Single speed PSC motors designed to replace PSC and Shaded pole motors, used in direct drive furnace, air conditioners, and others blowers.

- Features:**
- Open frame and brackets
  - Heavy gauge steel frame and base
  - Shaft with flat
  - **70°C ambient**
  - 37" Leads
  - Thermal overload protection
  - 1/4" terminals on the capacitor leads
  - 2 1/4" resilient rings, includes 2 1/2" expanders
  - **Capacitor not included, see Accessories section**

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.	FOOT NOTES
1/6	1625	115	48Y	X477	48A17O128	★	\$138	F1	2.6	9	4	1/2 x 4	
	1625	230	48Y	X475	48A17O123	★	\$138	F1	1.3	9	4	1/2 x 4	
	1075	115	48Y	X473	48A11O1046	★	\$133	F1	2.9	9	4	1/2 x 4	
	1075	230	48Y	X471	48A11O1044	★	\$133	F1	1.3	10	4	1/2 x 4	
1/4	1625	230	48Y	X476	48A17O124	★	\$147	F1	1.8	10	4 1/4	1/2 x 4	
	1075	115	48Y	X472	48A11O1045	★	\$139	F1	4.0	11	4 1/4	1/2 x 4	
	1075	230	48Y	X474	48A11O1047	★	\$139	F1	2.0	11	4 1/4	1/2 x 4	

## Fan and Blower - Direct Drive, PSC

### Open Air Over, Torsion Flex Mount



**Applications:** Residential and commercial furnaces, air conditioners, exhaust fans, and other air handling equipment installed in clean and dry environments.

- Features:**
- Open frames and brackets
  - Three lug mount fits 9" or 10" bolt circle. Mounting holes on lugs are .435" dia., with grommets and sleeves for .26" dia. option.
  - **Multi-speed capability**
  - Weather resistant reversing plug
  - 30" long leads
  - Automatic reset thermal protector
  - Ball Bearings
  - UL Recognized and CSA Certified
  - **Capacitor not included, see Accessories section**

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.	FOOT NOTES
1/4	1075/4	115	48Y	X034	48A11O1773	★	\$160	F1	3.3	14	4 1/2	1/2 x 6	
1/3	1075/4	115	48Y	X035	48A11O1774	★	\$172	F1	4.5	15	4 1/2	1/2 x 6	
1/2	1075/4	115	48Y	X036	48A11O1772	★	\$190	F1	6.0	19	5	1/2 x 6	

## Fan & Blower - Direct Drive, PSC

### Open Air Over, Extended Thru-Bolt, 460 Volt



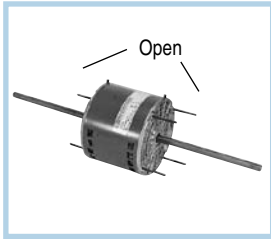
**Applications:** Residential and commercial furnaces, air conditioners, exhaust fans, and other air handling equipment installed in clean and dry environments.

- Features:**
- Enclosed frame and open end brackets
  - **Multi-speed capability**
  - Grommeted lead exit
  - Weather resistant reversing plug
  - Automatic reset thermal protector
  - 7/8" extended thru-bolts on shaft end
  - Ball Bearings
  - UL Recognized and CSA Certified
  - **Capacitor not included, see Accessories section**

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.	FOOT NOTES
1/3	1075/2	460	48Y	X037	48A11O1876	★	\$299	F1	1.0	14	4 3/4	1/2 X 6	51
1/2	1075/2	460	48Y	X038	48A11O1874	★	\$305	F1	1.6	17	5 1/4	1/2 X 6	51
3/4	1075/2	460	48Y	X039	48A11O1875	★	\$311	F1	2.1	19	5 1/2	1/2 X 6	51

# Fan and Blower - Direct Drive, PSC, Open Air Over

## Belly Band Thru-Bolt, Double Shaft



**Applications:** Continuous air over applications, such as room air conditioners, fan coil units, and other air moving applications.

**Features:**

- Open frame and brackets
- **Multi-speed capability**
- Automatic reset thermal protector
- 30" leads
- **CCW rotation, fixed lead end**
- 1" extended Thru-bolts both ends
- 20" overall length
- Length adapter kits included where noted
- Ball Bearings (except as noted)
- UL Recognized and CSA Certified
- **Capacitor not included, see Accessories section**

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.	FOOT NOTES
<b>1/8</b>	1075/3	115	48Y	X064	48A11O2011		\$132	F1	2.4	11	4	8 1/5 x 1/2 x 7 7/8	4
	1075/3	115	48Y	X056	48A11O901	*	\$146	F1	2.4	13	4	8 1/5 x 1/2 x 7 7/8	4,71
	1075/3	208-230	48Y	X065	48A11O2012	*	\$132	F1	1.0	11	4	8 1/5 x 1/2 x 7 7/8	
	1075/3	208-230	48Y	X057	48A11O900		\$146	F1	1.0	33	4	8 1/5 x 1/2 x 7 7/8	4,71
<b>1/6</b>	1075/3	115	48Y	X048	48A11O772		\$133	F1	3.0	14	4	8 1/5 x 1/2 x 7 7/8	4
	1075/3	115	48Y	X042	48A11O653	*	\$149	F1	3.0	11	4	8 1/5 x 1/2 x 7 7/8	71
	1075/3	208-230	48Y	X049	48A11O773	*	\$133	F1	1.5	9	4	8 1/5 x 1/2 x 7 7/8	
	1075/3	208-230	48Y	X043	48A11O654	*	\$149	F1	1.5	11	4	8 1/5 x 1/2 x 7 7/8	71
<b>1/4</b>	1625/3	208-230	48Y	X059	48A17O2002		\$147	F1	1.8	12	4 1/4	8 x 1/2 x 7 7/8	
	1625/3	208-230	48Y	X040	48A17O69	*	\$163	F1	1.8	12	4 1/4	8 x 1/2 x 7 7/8	71
	1075/3	115	48Y	X061	48A11O2022	*	\$159	F1	4.8	14	4 1/4	8 x 1/2 x 7 7/8	71
	1075/3	208-230	48Y	X050	48A11O774	*	\$143	F1	2.2	13	4 1/4	8 x 1/2 x 7 7/8	
	1075/3	208-230	48Y	X044	48A11O655	*	\$159	F1	2.2	16	4 1/4	8 x 1/2 x 7 7/8	71
<b>1/3</b>	1625/3	208-230	48Y	X060	48A17O2003		\$158	F1	2.5	14	4 3/4	7 1/2 x 1/2 x 7 7/8	4
	1625/3	208-230	48Y	X041	48A17O70	*	\$172	F1	2.5	15	4 3/4	7 1/2 x 1/2 x 7 7/8	71
	1075/3	115	48Y	X070	48A11O2024	*	\$168	F1	7.8	15	4 3/4	7 1/2 x 1/2 x 7 7/8	71
	1075/3	208-230	48Y	X052	48A11O775	*	\$152	F1	3.4	16	4 3/4	7 1/2 x 1/2 x 7 7/8	
	1075/3	208-230	48Y	X045	48A11O656	*	\$168	F1	3.4	17	4 3/4	7 1/2 x 1/2 x 7 7/8	71
	1075/3	208-230	48Y	X258	48A11O1167	*	\$147	F1	2.3	14	4 1/4	6 7/8 x 1/2 x 6 7/8	
<b>1/2</b>	1625/3	208-230	48Y	X058	48A17O2001	*	\$194	F1	4.1	18	5 1/4	7 x 1/2 x 7 7/8	71
	1625/3	208-230	48Y	X069	48A17O2004		\$177	F1	4.1	16	5 1/4	7 x 1/2 x 7 7/8	4
	1075/3	115	48Y	X071	48A11O2026	*	\$189	F1	9.4	20	5 1/2	6 5/8 x 1/2 x 7 7/8	71
	1075/3	208-230	48Y	X062	48A11O2009	*	\$189	F1	4.7	17	5 1/2	6 5/8 x 1/2 x 7 7/8	71
	1075/3	208-230	48Y	X067	48A11O2014	*	\$173	F1	4.7	19	5 1/2	6 5/8 x 1/2 x 7 7/8	
<b>3/4</b>	1075/3	208-230	48Y	X068	48A11O2015		\$197	F1	5.0	15	5 3/4	6 3/4 x 1/2 x 6 7/8	
	1075/3	208-230	48Y	X063	48A11O2028	*	\$212	F1	5.4	19	5 1/2	6 5/8 x 1/2 x 7 7/8	71

# Fan and Blower, Split Phase, Dripproof

## Resilient Base (Single & Two-Speed)



### Features:

- Ball bearings (except as noted)
- Service Factor, as noted
- Thermal protection, as noted
- Variable torque on two speed motors
- Extended Thru-bolts, as noted
- Heavy gauge steel frame and base
- 48Y and 48YZ Frame have 48/56 Frame mounting holes
- UL Recognized and CSA Certified

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	
<b>1/12</b>	1140	115	48Z	AUTO	HG152	5KH32GN140X	★	\$247	F1	2.4	15	9.32	8,112	
<b>1/8</b>	1140	115	48Z	AUTO	HG154	5KH36KN113X	★	\$273	F1	3.8	17	10.38	8,112	
	850	115	56	AUTO	HG155	5KH46MN3021X	★	\$439	F1	4.6	32	10.88	112	
<b>1/6</b>	1725/1140	115	48Z	NONE	H169	5KH36KN114	★	\$170	F1	3.4/1.9	17	10.38	8,20,54	
	1725/1140	115	48Z	AUTO	H170	5KH36KN114X	★	\$177	F1	3.4/1.9	17	10.38	8,20,54	
	1725/1140	115	48	NONE	4322	5KH39QN9548	★	\$204	F1	3.4/1.9	15	10.00	4,20	
	1725/1140	115	48	AUTO	4389	5KH39QN9548X	★	\$217	F1	3.4/1.9	18	10.00	4,20	
	1725	115	48	AUTO	4314	5KH39QN5520X	★	\$147	F1	3.9	12	8.93	4,20	
	1725	115	48Y	AUTO	D107	48S17D2017	★	\$151	F1	3.6	12	8.99	CF,4,20	
	1725	115	48	NONE	4304	5KH39QN5543	★	\$146	F1	3.9	12	8.93	4,20	
	1725	115	48Z	AUTO	H913	5KH32DNA700X	★	\$155	F1	4.4	12	9.74	9,20,28	
	1725	115	48Z	NONE	HG156	5KH32DN3085	★	\$143	F1	3.9	12	9.32	8,20	
	1725	115	48Z	NONE	H912	5KH32DNA700	★	\$105	F1	4.4	12	9.74	9,20,28	
	1725	115	48YZ	NONE	B300	48S17D2052	★	\$145	F1	3.6	13	9.32	CF,20,31,52	
	1725	115	48Z	AUTO	H157	5KH32DN3085X	★	\$151	F1	3.9	12	9.32	8,20	
	1725	115	48YZ	AUTO	B322	48S17D2053	★	\$153	F1	3.6	13	9.32	CF,20,31,52	
	1725	115	56Z	AUTO	4350	5KH39QN5538X	★	\$154	F1	3.9	13	9.19	4,8,20,26	
	1140	115	48	NONE	H112	5KH37PN39	★	\$242	F1	4	20	10.40	4,20	
	1140	115	48Z	AUTO	H159	5KH37PN41X	★	\$300	F1	4	21	10.78	8,20	
	1140	115	48	NONE	HG695	5KH37PNA233	★	\$244	F1	4	24	10.40	4,20	
	1140	115	48Z	NONE	H158	5KH37PN41	★	\$293	F1	4	21	10.78	8,20	
	1140	115	48	AUTO	HG113	5KH37PN39X	★	\$250	F1	4	20	10.40	4,20	
	850	115	56	NONE	H620	5KH49PN3043	★	\$487	F1	6.1	31	11.48	20	
	<b>1/4</b>	1725/1140	115	48Y	AUTO	D180	48S17D7204	★	\$185	F1	4.1/2.5	18	10.06	4,20
		1725/1140	115	48Z	AUTO	H172	5KH37PN33X	★	\$203	F1	4.2/2.7	21	10.69	8,20,54
1725/1140		115	48Z	NONE	H171	5KH37PN33	★	\$196	F1	4.2/2.7	21	10.69	82,054	
1725/1140		115	48	AUTO	4399	5KH39QN9551X	★	\$250	F1	4.2/2.7	22	10.40	4,20,54	
1725/1140		115	56Z	AUTO	HG704	5KH35MNA568T	★	\$255	F1	5.2/2.8	17	10.18	17,20,48	
1725/1140		230	48	AUTO	4412	5KH39QN9550X	★	\$281	F1	2.1/1.3	22	10.40	4,20,39	
1725		115	48	AUTO	4305	5KH39QN5511X	★	\$130	F1	5.1	13	8.93	4,20	
1725		115	48	NONE	4355	5KH39QN5225	★	\$154	F1	5.1	13	8.93	4,20	
1725		115	48Y	AUTO	4701	5KH39QN5512T	★	\$128	F1	5.1	12	9.12	4,20,47	
1725		115	48YZ	AUTO	B206	48S17D2107	★	\$134	F1	5	14	9.62	CF,4,20,53	
1725		115	48Z	NONE	H160	5KH32FN3083	★	\$153	F1	5.1	14	9.32	8,20	
1725		115	48Z	NONE	H914	5KH33FNA722	★	\$115	F1	5.6	14	9.99	d,9,20,28	
1725		115	48YZ	NONE	B302	48S17D2054	★	\$156	F1	5	14	9.57	CF,20,31,52	
1725		115	48Z	AUTO	H915	5KH33FNA722X	★	\$167	F1	5.6	14	9.99	9,20,28	
1725		115/230	48Y	AUTO	4702	5KH33HN5725X	★	\$162	F1	5.2/2.6	15	9.62	4,7,20,26	
1725		115	48Y	AUTO	HG701	5KH32DN5618X	★	\$139	F1	5.1	13	8.94	4,20,48	
1725		115/208-230	48Z	AUTO	4680	5KH32FN3120T	★	\$219	F1	5.0/2.5	13	9.94	9,20	
1725		115	48Z	AUTO	HG161	5KH32FN3083X	★	\$160	F1	5.1	14	9.32	8,20	
1725		115	48YZ	AUTO	B303	48S17D2055	★	\$163	F1	5	14	9.57	CF,20,31,52	
1725		115	56Z	AUTO	B201	56S17D2047	★	\$134	F1	5	14	9.47	20,32,53	
1725		115	56Z	AUTO	4363	5KH39QN5526X	★	\$176	F1	5.1	14	9.19	4,8,20,26	
1725		230	48	AUTO	4306	5KH39QN5537X	★	\$139	F1	2.5	13	9.09	4,20	
1725		230	48	NONE	4360	5KH39QN5548	★	\$170	F1	2.5	13	8.93	4,20	
1725		277	48YZ	NONE	B606	48S17D2116	★	\$174	F1	2.1	13	9.47	20,31,52	
1140/850		115	56	NONE	H300	5KH49SN3048	★	\$514	F1	5.8/3.6	30	12.01	20,31	
1140		115	56	AUTO	H163	5KH46MN6053X	★	\$356	F1	5.6	23	10.88	20	
1140		115	56	NONE	H162	5KH46MN6053	★	\$348	F1	5.6	27	10.88	20	
<b>1/3</b>	850	115	56	NONE	H296	5KH49SN3046	★	\$598	F1	6.9	30	12.01	19	
	3450	115	48	NONE	H114	5KH35FN124	★	\$198	F1	5.6	15	9.57	20	
	3450	115	48	AUTO	HG115	5KH35FN124X	★	\$211	F1	5.6	15	9.57	20	
	3450	115/230	48Z	AUTO	4798	5KH35FN153T	★	\$230	F1	6.8/3.4	13	10.25	9,20	

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# Fan and Blower, Split Phase, Dripproof

## Resilient Base (Single & Two-Speed)

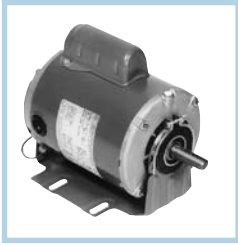
HVAC

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	
1/3	1725/1140	115	48	AUTO	4319	5KH39QN9429T	*	\$256	F1	6.3/3.1	22	10.40	4,17,54	
	1725/1140	115	48	NONE	4396	5KH39QN9683	*	\$246	F1	6.3/3.1	21	10.40	4,17,54	
	1725/1140	115	48Y	AUTO	D181	48S17D7205	*	\$230	F1	5.3/2.9	20	10.06	4,20	
	1725/1140	115	56	NONE	H173	5KH46MN3025	*	\$247	F1	5.7/3.2	24	10.88	20,31	
	1725/1140	115	56	AUTO	H174	5KH46MN3025X	*	\$254	F1	5.7/3.2	32	10.88	20,31	
	1725/1140	115	56Z	AUTO	HG706	5KH37PNA569T	*	\$292	F1	6.0/3.8	20	11.01	17,48	
	1725/850	115	56Z	AUTO	HG705	5KH46NN3039T	*	\$444	F1	4.7/2.6	25	10.90	17,48	
	1725	115	48Y	AUTO	D143	48S17D2086	*	\$152	F1	6.1	15	9.34	20	
	1725	115	48Y	AUTO	B703	48N17D14	*	\$204	F1	3.2	17	9.84	20,74	
	1725	115	48Y	AUTO	HG711	5KH32HN5620T	*	\$149	F1	6.6	14	8.94	4,20,26,48	
	1725	115	48Y	AUTO	HG700	5KHC37NNA167T	*	\$261	F1	3.7	24	10.39	ES20,26,47	
	1725	115	48Y	AUTO	4706	5KH39QN5514T	*	\$142	F1	6.6	15	9.12	4,20,47	
	1725	115	48YZ	AUTO	B207	48S17D2108	*	\$152	F1	5.5	15	9.62	CF,4,20,53	
	1725	115	48Z	NONE	H164	5KH32JN3128	*	\$177	F1	6.2	15	9.32	8,20	
	1725	115	48YZ	NONE	B304	48S17D2056	*	\$180	F1	5.5	15	9.32	CF20,31,52	
	1725	115	48Z	AUTO	H917	5KH35JNA723X	*	\$190	F1	6.9	15	10.37	9,20,28	
	1725	115	48Z	AUTO	H165	5KH32JN3128X	*	\$183	F1	6.2	16	9.32	8,20	
	1725	115	48YZ	AUTO	B305	48S17D2057	*	\$186	F1	5.5	15	9.32	CF20,31,52	
	1725	115	56Z	AUTO	B202	56S17D2048	*	\$156	F1	6.1	15	9.72	20,32,53	
	1725	230	48Z	AUTO	H167	5KH35JN26X	*	\$160	F1	3.3	16	9.95	8,20	
	1725	230	48	AUTO	4309	5KH39QN9514X	*	\$232	F1	3.1	15	9.18	20	
	1725	115	48	NONE	4370	5KH39QN9682	*	\$213	F1	6.2	15	9.18	20	
	1725	115/230	48Y	AUTO	4707	5KH33HN5722X	*	\$181	F1	6.0/3.0	15	9.12	4,7,20,26	
	1725	115/208-230	56Z	AUTO	4682	5KH35JN3132T	*	\$246	F1	6.2/3.1	16	10.26	9,20,26,72	
	1725	230	48Z	NONE	H166	5KH35JN26	*	\$235	F1	3.3	16	9.95	8,20	
	1725	230	56Z	AUTO	4757	5KH39QN9636T	*	\$243	F1	3.1	16	9.19	7,20,26	
	1725	277	48YZ	NONE	B607	48S17D2117	*	\$196	F1	2.5	15	9.72	20,31,52	
	1725	115	56Z	AUTO	4383	5KH39QN9513X	*	\$228	F1	6.2	15	9.19	8,26	
	1140	115/230	56	NONE	H168	5KH49PN6055	*	\$404	F1	7.0/3.5	27	11.48	20	
	1140	115/230	56	AUTO	HG621	5KH49PN6055X	*	\$419	F1	7.0/3.5	26	11.48	20	
	1/2	1725/1140	115	56	NONE	H175	5KH49PN3026	*	\$312	F1	8.0/4.2	31	11.48	19,31
		1725/1140	115	56	AUTO	H176	5KH49PN3026X	*	\$319	F1	8.0/4.2	31	11.48	19,31
1725/1140		115	56	NONE	H130	5KH39QN9632	*	\$350	F1	8.4/4.8	22	10.32	17	
1725/1140		115	56	AUTO	H131	5KH39QN9631T	*	\$362	F1	8.4/4.8	22	10.32	17,31	
1725/1140		115	56Z	AUTO	HG715	5KH38SNA731T	*	\$412	F1	7.8/4.8	25	11.44	17,48	
1725/1140		230	56	NONE	H275	5KH49PN3045	*	\$436	F1	3.8/1.9	28	11.48	19,31	
1725/1140		230	56	AUTO	H133	5KH39QN9642T	*	\$378	F1	4.1/2.4	22	10.32	17,31	
1725		115	48Y	AUTO	D162	48S17D2087	*	\$207	F1	7.2	19	10.09	19	
1725		115	48Y	AUTO	HG703	5KH35MNA519T	*	\$200	F1	7.9	15	10.32	19,48	
1725		115	48Y	AUTO	4708	5KH39QN9401T	*	\$188	F1	7.9	17	9.93	4,19,47	
1725		115	48YZ	AUTO	B208	48S17D2109	*	\$207	F1	7.5	20	10.43	CF,4,19,53	
1725		115	48YZ	NONE	B306	48S17D2058	*	\$218	F1	7.5	18	10.32	CF,19,31,52	
1725		115	48	AUTO	HG694	5KH39QN9767X	*	\$231	F1	7.1	19	9.99	19	
1725		115	48YZ	AUTO	B307	48S17D2059	*	\$237	F1	7.5	18	10.32	CF,19,31,52	
1725		115	48Z	AUTO	H919	5KH36MNA735X	*	\$234	F1	8.7	18	10.80	10,19,28	
1725		115	56	AUTO	4392	5KH39QN9405X	*	\$230	F1	7.9	21	10.32	19	
1725		115	56	NONE	4390	5KH39QNA039	*	\$258	F1	7.9	17	10.32	19	
1725		115	56	AUTO	D149	56S17D2050	*	\$212	F1	7.2	19	10.47	19	
1725		115	56	AUTO	H248	5KH36MN3106X	*	\$262	F1	9.3	18	10.32	19	
1725		115	56	NONE	H286	5KH36MN3106	*	\$258	F1	9.3	18	10.32	19	
1725		115	56Z	AUTO	B200	56S17D2049	*	\$212	F1	7.2	19	10.47	19,32,53	
1725		115	56Z	AUTO	4758	5KH39QN9698T	*	\$269	F1	7.9	22	9.99	7,19,26	
1725		115/230	48Y	AUTO	4709	5KH36MN5729X	*	\$220	F1	7.6/3.8	18	9.93	1,4,7,19	
1725		115/230	56	AUTO	B100	56S17D2064	*	\$223	F1	7.2/3.6	20	10.47	19	
1725		115/230	56Z	AUTO	4684	5KH36MN3127T	*	\$304	F1	8.9/4.5	18	10.69	9,26	
1725		230	56	AUTO	4393	5KH39QN9544X	*	\$281	F1	4.5	21	10.32	19	
1725		230	48Y	AUTO	D163	48S17D2088	*	\$217	F1	3.6	19	10.09	19	
1140		115/230	56	AUTO	H298	5KH48UN6054X	*	\$536	F1	9.0/4.5	32	12.76	19	
3/4		1725	115	56	AUTO	4338	5KH39QN9541T	*	\$275	F1	11.4	21	10.72	18

# Fan and Blower - Capacitor Start, Dripproof

## Resilient Base (Single & Two-Speed)

HVAC



### Features:

- Ball bearings
- Heavy gauge steel frame and base
- Service Factor, as noted
- Capacitor start / capacitor run as noted
- Thermal protection, as noted
- 48Y and 48YZ Frame have 48/56 Frame mounting holes
- UL Recognized and CSA Certified

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/4	1725	115/230	48	NONE	G1114	5KC35JN7J	★	\$173	F1	5.2/2.6	16	9.57	20
	1725	115/208-230	48YZ	AUTO	B313	48C17D2042	★	\$203	F1	5.2/2.8-2.6	16	9.95	CF,20,31,52
	1725	115/208-230	48YZ	NONE	B312	48C17D2041	★	\$194	F1	6.2/2.8-3.1	15	9.72	20,31,52
	1725	115/230	48	AUTO	G1115	5KC35JN7X	★	\$183	F1	5.2/2.6	16	9.57	20
1/3	1725	115/208-230	48YZ	NONE	B314	48C17D2043	★	\$229	F1	5.8/3.1-2.9	18	10.22	20,31,52
	1725	115/208-230	48YZ	AUTO	B315	48C17D2044	★	\$237	F1	5.8/3.1-2.9	17	10.22	20,31,52
	1725	115/208-230	56	AUTO	C216	5KC36LN1X	★	\$241	F1	6.0/3.2-3.0	18	10.32	20,50
	1725	115/230	48YZ	AUTO	D119	48C17D2055	★	\$218	F1	5.8/2.9	12	10.22	20,31,52
	1725	115/230	56	AUTO	G135	56C17D2088	★	\$221	F1	6.4/3.2	18	10.22	20
	1/2	3450	115/208-230	48	AUTO	C1152	5KC39QN3220X	★	\$175	F1	8.2/3.9-4.1	19	11
1725/1140		115	56	AUTO	C419	5KC49PN3027X	★	\$499	F1	8.2/3.9	28	11.38	19
1725		115/208-230	56	NONE	B1316	5KC49GN0001	★	\$259	F1	8.8/4.2-4.4	21	10.38	19
1725		115/208-230	56	AUTO	C1153	5KC49GN0022X	★	\$293	F1	8.6/4.1-4.3	21	10.38	19
1725		115/208-230	56	AUTO	B317	56C17D2072	★	\$299	F1	8.0/4.1-4.0	20	10.32	CF,19,31
1725		115/208-230	56Y	AUTO	B353	56B17D67	★	\$320	F1	6.2/3-3.1	24	12.92	1,19,55
1725		115/230	56	AUTO	D111	56C17D2079	★	\$263	F1	7.2/3.6	20	10.72	19
1725		115/230	56	AUTO	G151	56C17D2025	★	\$263	F1	8.6/4.3	24	11.72	19
1725		277	56	NONE	B608	56C17D2113	★	\$296	F1	3.6	23	11.72	19
3/4		3450	115/208-230	56	AUTO	C1155	5KC38NN410X	★	\$229	F1	10.0/4.9-5.0	17	11.32
	3450	115/208-230	48	AUTO	C1154	5KC38NN413X	★	\$322	F1	9.8/5.0-4.9	17	11	19
	1725/1140	115	56	AUTO	B332	56B17D5701	★	\$473	F1	8.9/6.1	40	12.85	1,19,31
	1725/1140	115	56	NONE	C420	5KCR49PN3011	★	\$463	F1	9.0/6.4	31	11.48	ES,1,19
	1725/1140	208-230	56	NONE	C486	5KCR49PN3012X	★	\$472	F1	4.3-4.4/3.1-3.2	38	11.48	ES,1,19
	1725/1140	115	56	AUTO	C474	5KCR49PN3011X	★	\$545	F1	9.0/6.4	31	11.48	ES,1,19
	1725	115/208-230	56	AUTO	C1156	5KC46LN0149X	★	\$353	F1	13.3/6.5-6.6	27	10.78	19
	1725	115/208-230	56	AUTO	B319	56C17D2074	★	\$363	F1	10.0/5.2-5.0	23	10.72	CF,19,31
	1725	115/208-230	56	NONE	CG230	5KC46LN0158	★	\$326	F1	13.2/6.2-6.6	25	10.78	19
	1725	115/208-230	56	NONE	B318	56C17D2073	★	\$337	F1	10.0/5.2-5.0	24	10.72	CF,19,31
	1725	115/208-230	56	NONE	G156	56B17D2012	★	\$324	F1	11.0/5.5-5.5	26	11.47	1,19
	1725	115/208-230	56Z	AUTO	4686	5KC46LN0269X	★	\$385	F1	13.3/6.5-6.6	25	11.15	10,19
	1725	115/230	56	AUTO	D1113	5KC46LN0158X	★	\$325	F1	13.2/6.6	25	10.78	19
	1725	277	56	NONE	B609	56B17D2013	★	\$360	F1	4.3	27	11.47	1,19,31
1	3450	115/208-230	56	AUTO	C1157	5KC39RN383X	★	\$284	F1	13.4/6.7-6.6	25	11.85	19
	3450	115/208-230	56	AUTO	D118	56C34D2106	★	\$266	F1	12.0/6.2-6.0	25	12.22	18
	1725/1140	115	56	AUTO	B335	56B17D5703	★	\$589	F1	11.5/7.0	39	12.85	1,18,31
	1725/1140	115	56	NONE	C475	5KCR49SN3009	★	\$578	F1	10.8/7.4	35	12.01	ES,1,18
	1725/1140	115	56	AUTO	C1478	5KCR49SN3009X	★	\$604	F1	10.8/7.4	30	12.01	ES,1,18
	1725/1140	208-230	56	NONE	C476	5KCR49SN3010	★	\$601	F1	5.3-5.4/3.6-3.7	35	12.01	ES,1,18
	1725/1140	208-230/190-380	56H	AUTO	C1479	5KCR48TN3084X	★	\$613	F1	5.3-5.4/3.6-3.7	36	12.54	ES,1,17
	1725	115/208-230	56	AUTO	C1158	5KC49PN0164X	★	\$369	F1	14.7/7.2-7.4	29	11.38	18
	1725	115/208-230	56Z	AUTO	4688	5KC49NN0061T	★	\$374	F1	14.4/7.2-7.4	28	11.75	10,18
	1725	115/208-230	56H	NONE	C235	5KC49PN0155	★	\$344	F1	13.6/6.7-6.8	31	11.38	18
	1725	277	56	NONE	B337	56C17D5348	★	\$386	F1	5.6	29	11.85	19,32
1 1/2	3450	115/208-230	56H	AUTO	C1159	5KC49RN2152T	★	\$370	F1	19.6/9.8-9.8	33	12.01	d,18
	3450	115/208-230	56	AUTO	D115	56B34D2027	★	\$370	F1	13.4/7.4-6.7	28	11.72	1,18
	1725	115/208-230	145T	NONE	I146	145TCDR5331	★	\$419	S1	18.0/9.3-9.0	42	13.22	18,32
	1725	115/208-230	56H	NONE	B336	56C17D5347	★	\$413	F1	18.0/9.3-9.0	39	12.85	5,18,32
	1725	115/208-230	56H	AUTO	C1160	5KCR49SN0150X	★	\$429	F1	16.4/8.4-8.2	35	11.91	ES,1,18
	1725	277	56H	NONE	B338	56C17D5349	★	\$447	F1	7.5	41	12.85	5,18,32
2	3450	115/208-230	56H	AUTO	C1161	5KCR49RN2148T	★	\$451	F1	19.6/10.4-9.8	33	11.91	ES,1,110
	1725	115/208-230	56H	AUTO	C1162	5KCR49WN0291T	★	\$547	F1	22.0/10.9-11.0	44	13.96	ES,1,18
	1725	115/208-230	145T	NONE	I147	145TBDR5345	★	\$440	S1	21/11.3-10.5	49	14.22	1,18



# Fan and Blower, Split Phase and Capacitor Start

## Totally Enclosed, Resilient Base (Single & Two-Speed)



### Features:

- Thermal protection, as noted
- 1.0 Service Factor (except as noted)
- Heavy gauge steel frame and base
- Split phase (except as noted)
- Ball bearings
- UL Recognized and CSA Certified

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/6	1725	115	48	NONE	HG178	5KH32EN79	★	\$242	F1	4.0	15	9.92	
	1725	115	48	AUTO	H291	5KH32EN72X	★	\$255	F1	4.0	15	9.92	
	1140	115	48	NONE	H233	5KH36PN109	★	\$335	F1	4.0	23	10.98	
1/4	1725	115	48	AUTO	H234	5KH39QN9105X	★	\$177	F1	5.1	17	9.92	
	1725	115	48	NONE	B1502	5KH39QN9105	★	\$170	F1	5.1	17	9.92	
	1725	115/230	48	NONE	C247	5KC32GN13	★	\$300	F1	5.4/2.7	17	9.92	2
	1725/1140	115	48	NONE	HG189	5KH36PN108	★	\$335	F1	4.2/2.7	23	10.98	
	1140	115/230	56	NONE	HG182	5KH49MN6060	★	\$386	F1	5.6/2.8	25	11.54	
1/3	1725	115	56	NONE	B1504	5KH35MN56	★	\$210	F1	5.9	20	10.93	
	1725	115	56	AUTO	H236	5KH35MN56X	★	\$217	F1	5.9	20	10.93	
	1725/1140	115	56	NONE	H190	5KH49MN3035	★	\$416	F1	5.7/3.2	27	11.54	
	1140	115	56	NONE	HG186	5KH46PN6059	★	\$444	F1	7.0	31	11.94	
1/2	1725	115	56	AUTO	B506	56S17F5303		\$298	F1	8.4	27	12.30	
	1725	115	56	NONE	B1507	5KH42GN0336	★	\$252	F1	8.0	21	11.11	19
	1725	115/230	56	AUTO	C289	5KC42GN0309X	★	\$405	F1	8.6/4.3	21	11.11	2,18
	1725/1140	115	56	NONE	HG191	5KH46PN3033	★	\$463	F1	8.0/4.2	29	11.94	
	1725/1140	230	56	NONE	H293	5KH46PN3034	★	\$475	F1	3.8/1.9	31	11.94	
	1140	115	56	NONE	HG188	5KH49UN6064	★	\$565	F1	9.0	40	13.07	
3/4	1725	115/230	56	AUTO	C806	5KC49PN0281X	★	\$471	F1	11.0/5.5	32	12.54	2,17
1	1725	115/230	56	AUTO	C292	5KC49TN0285X	★	\$520	F1	13.2/6.6	38	13.07	2

## Fan & Blower - Three Phase

### TEAO, Resilient Base

**Applications:** Designed for applications like commercial fans and blowers, direct and belt drive air handlers and exhaust fans.

### Features:

- Ball bearings
- 1.0 Service Factor
- .62" extended thru-bolts
- UL Recognized and CSA Certified

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/4	1800	230/460	48		K281	5K32GN48	★	\$282	F1	1.4/0.7	14	8.94	
	1200	230/460	56		K282	5K35MN294	★	\$405	F1	1.4/0.7	18	9.89	
1/3	1800	230/460	48		K283	5K33KN52	★	\$316	F1	1.5/0.8	16	9.19	
1/2	1800	208-230/460	56		K284	5K42HN4128	★	\$355	F1	2.3-2.2/1.1	22	10.05	
	1200	208-230/460	56		K285	5K49MN6080	★	\$475	F1	2.6-2.6/1.3	24	10.48	
	1200	208-230/460	56		K541	5K49MN6081	★	\$514	F1	2.6-2.6/1.3	27	11.54	
3/4	1800	208-230/460	56		K286	5K49KN4142	★	\$383	F1	3.3-3.0/1.5	21	10.48	
1	1800	208-230/460	56		K525	5K49MN4114	★	\$402	F1	3.6-3.8/1.9	25	10.48	

# Fan & Blower - Three Phase, Dripproof

## Resilient Base (Single and Two-Speed)



**Features:**



- **Single and two-speed models, as noted**
- Variable torque on two speed ratings
- Ball bearings
- Heavy gauge steel frame and base
- Thermal protection, as noted
- Service Factor, as noted
- Nameplated 60/50 Hz at next lower horsepower (except as noted)
- **Patented VCD™**, Voltage Change Device where footnoted "VC"
- UL Recognized and CSA Certified

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/4</b>	1800	230/460	48Z	NONE	K275	5K33GN45	★	\$267	F1	1.4/0.7	14	9.57	20
<b>1/3</b>	1800/1200	460	56	NONE	G161	56T17D5701	★	\$352	F1	0.6/0.4	33	12.35	20
	1800	208-230/460	56	AUTO	G106	56T17D2104	★	\$280	F1	1.5-1.6/8	16	9.97	20
	1800	208-230/460	56	NONE	G162	56T17D2121	★	\$232	F1	1.5-1.6/8	16	9.97	20
	1800	575	56	NONE	G964	56T17D2117	★	\$232	F1	0.64	16	9.97	20,70
<b>1/2</b>	1800/1200	200-230	56	NONE	K544	5K42JN3051	★	\$382	F1	2.4-2.8/1.5-1.7	23	10.05	19
	1800/1200	460	56	NONE	K546	5K42JN3050	★	\$382	F1	1.1/0.6	22	10.05	19
	1800	208-230/460	56	AUTO	K1408	5K42HN4089X	★	\$310	F1	2.3-2.2/1.1	20	10.05	19
	1800	208-230/460	56	NONE	K381	5K42HN4089	★	\$262	F1	2.3-2.2/1.1	20	10.05	19
	1800	208-230/460	56	AUTO	G140	56T17D5345	★	\$324	F1	2.3-2.4/1.2	22	10.85	VC,19
	1800	575	56	NONE	G961	56T17D2118	★	\$261	F1	0.9	18	10.47	19,70
<b>3/4</b>	3600	208-230/460	56	AUTO	K1409	5K37MN252X	★	\$284	F1	2.6-2.6/1.3	16	10.72	19
	1800/1200	200-230	56	NONE	K279	5K49PN3053	★	\$454	F1	2.8-3.0/1.6-1.8	31	11.48	19
	1800/1200	460	56	NONE	K280	5K49PN3052	★	\$454	F1	1.3/0.7	28	11.48	19
	1800	208-230/460	56	AUTO	K1410	5K46KN4085X	★	\$339	F1	3.3-3.0/1.5	21	10.88	19
	1800	208-230/460	56	AUTO	G141	56T17D5346	★	\$354	F1	2.9-3.0/1.5	23	10.85	VC,19
	1800	208-230/460	56	NONE	K277	5K46KN4085	★	\$293	F1	3.3-3.0/1.5	25	10.88	19
	1800	575	56	NONE	G962	56T17D2119	★	\$292	F1	1.1	21	10.97	19,70
<b>1</b>	3600	208-230/460	56	AUTO	K1411	5K38PN258X	★	\$316	F1	3.3-3.2/1.6	18	11.32	19
	1800/1200	200-230	56	NONE	K518	5K49SN3054	★	\$470	F1	3.7-3.9/2.0-2.2	35	12.01	18
	1800/1200	460	56	NONE	K519	5K49SN3055	★	\$470	F1	1.8/1.1	35	12.01	18
	1800	208-230/460	56	AUTO	K1412	5K46MN4087X	★	\$360	F1	3.6-3.8/1.9	27	10.88	d,18
	1800	208-230/460	56	AUTO	G142	56T17D5347	★	\$360	F1	3.5-3.6/1.8	25	11.35	VC,18
	1800	208-230/460	56H	AUTO	G100	56T17D2101	★	\$346	F1	3.4-3.4/1.7	24	11.47	5,18
	1800	208-230/460	56	NONE	K278	5K46MN4087	★	\$301	F1	3.6-3.8/1.9	27	10.88	18
	1800	575	56H	NONE	G963	56T17D2120	★	\$300	F1	1.4	23	11.47	5,18,70
<b>1 1/2</b>	3600	208-230/460	56H	AUTO	K1413	5K49KN2150X	★	\$377	F1	5.0-4.8/2.4	26	12.01	18
	1800/1200	200-230	56H	NONE	K520	5K48UN3056	★	\$484	F1	5.0-5.3/2.8-3.1	40	12.76	18
	1800/1200	460	56H	NONE	K549	5K48UN3057	★	\$484	F1	2.3/1.4	40	12.76	18
	1800	208-230/460	56	NONE	G122	56T17D5329	★	\$333	F1	4.8-4.8/2.4	28	11.35	18
	1800	208-230/460	56H	AUTO	K1415	5K49PN4088X	★	\$378	F1	5.5-5.6/2.8	31	12.01	18
	1800	208-230/460	56	AUTO	G143	56T17D5348	★	\$393	F1	4.8-4.8/2.4	28	11.35	VC,18
	1800	208-230/460	145T	AUTO	K2030	5KE49TN8384T	★	\$409	E6	4.5-4.4/2.2	40	13.19	d,18,70
<b>2</b>	1800	575	56H	AUTO	G965	56T17D5357	★	\$377	F1	1.9	29	11.35	18,70
	3600	208-230/460	56H	AUTO	K1416	5K49NN2147X	★	\$435	F1	6.0-6.0/3.0	30	12.01	18
	1800	208-230/460	56H	AUTO	G144	56T17D5349	★	\$435	F1	6.2-6.2/3.1	35	12.35	VC,5,18
	1800	208-230/460	56H	NONE	G127	56T17D5332	★	\$364	F1	6.2-6.2/3.1	34	12.35	5,18
	1800	208-230/460	56H	AUTO	K1418	5K49UN4086X	★	\$412	F1	6.2-6.0/3.0	39	13.96	18
<b>3</b>	1800	575	56H	AUTO	G967	56T17D5385	★	\$411	F1	2.5	36	12.35	5,18,70
	3600	208-230/460	56HZ	AUTO	B193	56T34D5357	★	\$488	F1	8.9-8.4/4.2	34	12.22	Z,5,18
	3600	208-230/460	145T	AUTO	K2037	5KE49UN8376T	★	\$476	E6	8.4-7.6/3.8	34	13.19	d,18,70
	1800	208-230/460	56HZ	AUTO	G145	56T17D5350	★	\$458	F1	9.2-8.6/4.3	48	14.22	Z,VC,5,18
	1800	208-230/460	56HZ	AUTO	K1497	5K49WN4335X	★	\$508	F1	10.2/4.8	44	15.31	11,18
<b>5</b>	3600	208-230/460	56HZ	AUTO	X251	56T34D5364	★	\$654	F1	13.5-12.4/6.2	50	13.49	Z,5,12,17,70
	3600	230/460	145T	AUTO	K2038	5KE49QN8375T	★	\$541	E6	12.4/6.2	54	14.19	d,17,70

## Exhaust Ventilator, Single Phase

### Dripproof, C-Face Footless, Single Speed



#### Features:

- Split phase (except as noted)
- Thermal protection, as noted
- Service Factor, as noted
- Motors with 56CZ frames have 2-1/4 x 5/8 shaft dimensions
- Ball Bearings

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/12	1140	115	56CZ	NONE	H204	5KH32GN142	★	\$247	F1	2.4	13	9.62	112
	850	115	56CZ	NONE	H205	5KH37PN37	★	\$358	F1	3.2	19	11.08	112
	850	115	56CZ	AUTO	H278	5KH37PN37X	★	\$367	F1	3.2	19	11.08	112
1/8	1140	115	56CZ	AUTO	H287	5KH36KN112X	★	\$285	F1	3.8	15	10.68	112
	1140	115	56CZ	NONE	H206	5KH36KN112	★	\$271	F1	3.8	15	10.68	112
	850	115	56CZ	NONE	H207	5KH46MN3041	★	\$439	F1	4.6	22	11.15	112
1/6	1725	115	56CZ	NONE	H208	5KH32DN111	★	\$145	F1	4.2	11	9.62	20
	1140/850	115	56CZ	NONE	H222	5KH49PN3047	★	\$431	F1	4.2/2.9	43	11.70	20
	1140	115	56CZ	AUTO	H210	5KH37PN36X	★	\$316	F1	4.0	19	11.08	20
	1140	115	56CZ	NONE	H209	5KH37PN36	★	\$221	F1	4.0	19	11.08	20
1/4	1725	115	56CZ	NONE	H212	5KH33FN77	★	\$154	F1	5.6	13	9.87	20
	1725	115	56CZ	AUTO	H213	5KH33FN77X	★	\$231	F1	5.6	13	9.87	20
	1725/1140	115	56CZ	NONE	H223	5KH37PN40	★	\$296	F1	4.2/2.7	20	11.08	20
	1140/850	115	56CZ	NONE	H224	5KH49SN3049	★	\$525	F1	5.8/3.6	29	11.91	20
	1140	115	56CZ	NONE	H214	5KH46MN6071	★	\$262	F1	5.6	22	11.15	20
	1140	115	56CZ	AUTO	H215	5KH46MN6071X	★	\$361	F1	5.6	22	11.15	20
	850	115	56CZ	AUTO	H288	5KH49SN3023X	★	\$617	F1	6.9	31	13.59	20
1/3	1725	115	56CZ	NONE	H217	5KH35JN121	★	\$174	F1	6.6	14	10.25	20
	1725	115	56CZ	AUTO	H218	5KH35JN121X	★	\$261	F1	6.6	14	10.25	20
	1725/1140	115	56CZ	NONE	H225	5KH46MN3040	★	\$368	F1	5.7/3.2	22	11.15	20
	1140	115	56CZ	NONE	H219	5KH49PN6069	★	\$432	F1	7.0	31	11.70	20
	850	115	56CZ	AUTO	H280	5KH49UN3024X	★	\$647	F1	9.2	40	13.59	20
1/2	1725	115	56CZ	NONE	H290	5KH36MN137	★	\$230	F1	7.2	16	11.31	19
	1725/1140	115	56CZ	AUTO	H282	5KH49PN3042X	★	\$444	F1	8.0/4.2	31	11.70	19
	1725/1140	115	56CZ	NONE	H226	5KH49PN3042	★	\$432	F1	8.0/4.2	26	11.70	19
	1140	115	56CZ	NONE	H221	5KH48UN6074	★	\$490	F1	9.0	34	12.66	19
	1140	115/208-230	56C	NONE	G278	56C11D5304	★	\$448	F1	10.6/5.1-5.3	32	11.94	2,19

## Furnace Blower, Split Phase

### Open, PDQ Mounting



#### Applications:

Designed for replacement of virtually any NEMA 48 and 56 frame belt drive furnace blower motors. PDQ models have 1 1/2" extended splined hub on opposite shaft end for quick and easy positioning of resilient ring to properly fit the pre-existing motor base.

#### Features:

- Ball bearings
- Reversible rotation connected for CCW rotation from factory
- NEMA service factors
- 4733, 4734 and 4735 have both 48 and 56 frame mounting holes and includes mounting base
- UL Recognized and CSA Certified

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	MIN/MAX BASE DIM'S	FOOT NOTES
1/4	1725	115	48Y	AUTO	4733	5KH39DNA533T	★	\$159	F1	5.1	13	9.78	6.62" & 7.91"	
	1725	115	48Y	AUTO	4730	5KH39QN9725T	★	\$146	F1	5.0	13	9.78	6.62" & 7.91"	30
1/3	1725	115	48Y	AUTO	4734	5KH32HNA532T	★	\$171	F1	6.6	15	10.03	6.87" & 8.16"	
	1725	115	48Y	AUTO	4731	5KH39QN9696X	★	\$157	F1	5.8	15	10.28	7.12" & 8.41"	30
	1725	230	48Y	AUTO	4738	5KH39QN9703T	★	\$256	F1	3.1	15	10.28	7.12" & 8.41"	30
1/2	1725	115	48Y	AUTO	4732	5KH39QN9702T	★	\$207	F1	7.9	17	10.66	7.50" & 8.79"	30
	1725	115	48Y	AUTO	4735	5KH33JNA534T	★	\$224	F1	7.9	15	10.28	6.62" & 7.91"	
	1725	230	48Y	AUTO	4739	5KH39QN9704T	★	\$323	F1	4.0	17	10.66	7.50" & 8.79"	30

# Oil Burner, Split Phase and Capacitor Start

## NEMA 48M and 48N Flange Mount



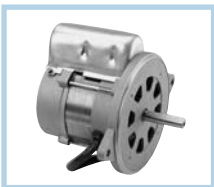
**Applications:** Direct replacement motors for residential and commercial oil burners and hot water pressure/steam cleaners.

- Features:**
- Quiet, economical sleeve bearings
  - 20" Long leads from a 1/2" NPT opening
  - Split phase and capacitor start designs
  - **Catalog numbers 4781, 4788, O010 and O011 have dripproof enclosures**
  - Semi- or totally enclosed steel frame (totally enclosed footnoted with N)
  - Two-bolt, NEMA N- or M-Flange direct mounting
  - 1.0 Service Factor

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/8</b>	3450	115	48N	MANUAL	4773	5KH39BN5016U	★	\$128	F1	2.4	10	7.6	d,3,4
	3450	115	48N	MANUAL	O005	48S34S2004	★	\$128	F1	2.4	9	7.09	3,61
	1725	115	48N	MANUAL	4782	5KH39BN5017U	★	\$112	F1	2.9	10	7.4	d,3,4
	1725	115	48N	MANUAL	O600	48S17T286	★	\$112	F1	2.8	11	7.7	CF,N,3
<b>1/7</b>	3450	115	48M	MANUAL	4779	5KH39BN5010Y	★	\$129	F1	2.4	9	7.15	3,4,15,81
	3450	115	48M	MANUAL	O100	48S34S361	★	\$138	F1	2.8	11	7.7	CF,3,4
<b>1/6</b>	3450	115	48M	MANUAL	O102	48S34S2005	★	\$146	F1	3.0	11	7.25	3
	1725	115	48N	MANUAL	4784	5KH39CN5018U	★	\$120	F1	3.3	11	7.6	d,3,4
	1725	115	48N	MANUAL	O601	48S17T290	★	\$120	F1	2.7	12	7.59	CF,N,3
<b>1/5</b>	3450	115/230	48N	MANUAL	O012	48C34S24	★	\$170	F1	3.0/1.5	14	8.35	2,61
<b>1/4</b>	3450	115	48N	MANUAL	4785	5KH32EN5015U	★	\$161	F1	4.1	13	8.13	3,4
	3450	115	48N	MANUAL	O004	48S34S2003	★	\$170	F1	4.2	13	8.13	CF,3,4
	3450	115/230	48N	MANUAL	O013	48C34S2001		\$177	F1	4.4/2.2	19	8.6	2,4
	1725	115	48N	MANUAL	4786	5KH39DN5019U	★	\$145	F1	4.1	12	7.9	d,3,4
	1725	115	48N	MANUAL	O002	48S17S25	★	\$145	F1	4.2	12	7.59	3
<b>1/3</b>	3450	115/230	48N	MANUAL	4788	5KC37EN3900U	★	\$186	F1	6.0/3.0	14	10.13	d
	3450	115/208-230	48N	MANUAL	O010	48C34D2024	★	\$186	F1	5.6/2.7-2.8	14	10.34	2
	3450	115/230	48N	MANUAL	O014	48C34S20		\$186	F1	5.2/2.6	19	8.85	2,4
	3450	115	48N	MANUAL	4774	5KH33GN5014U	★	\$173	F1	4.9	15	8.38	3,4
	1725	115	48N	MANUAL	4787	5KH32GN5020U	★	\$168	F1	4.8	15	8.13	d,3,4
	1725	115	48N	MANUAL	O003	48S17S24	★	\$168	F1	5.0	17	8.34	3
<b>1/2</b>	3450	115/230	48N	MANUAL	4781	5KC37HN3898U		\$229	F1	8.2/4.1	15	10.13	
	3450	115/208-230	48N	MANUAL	O011	48C34D2028	★	\$229	F1	7.4/3.5-3.7	17	10.84	2

## Oil Burner, PSC

### NEMA 48M Flange Mount



**Applications:** Replacement motors for mini pumps in residential or light commercial furnaces.

- Features:**
- High efficiency design
  - Ultra quiet performance
  - 14" cord for easy connection
  - UL Recognized and CSA Certified

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/7</b>	3450	115	48M	AUTO	4777	5KCP100EZA001X	★	\$119	F1	1.7	8	6.61	
	3450	115	48M	AUTO	O701	48A34SU1001	★	\$119	F1	1.7	8	6.61	

## Oil Burner, Split Phase and Capacitor Start

### Dripproof, NEMA 56C, C-Face Footless



#### Features:

- Ball Bearings (except as noted)
- Split Phase and capacitor start designs
- NEMA 56C direct mounting
- Moderate starting torque
- Manual or automatic reset thermal protector
- NEMA Jet Pump Service Factors
- UL Recognized and CSA Certified

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/4	3600	115	56C	MAN	O200	56S34D2000	*	\$139	F1	4.3	14	10.19	3,4,15,115
1/3	3600	115	56C	AUTO	O201	56S34D93	*	\$132	F1	5.6	14	10.44	3,4,15,2
	3600	115/230	56C	AUTO	J1025	5KC37FN71X	*	\$154	F1	6.4/3.2	14	10.71	2,115
	3600	115/208-230	56C	MAN	O211	56C34D2109	*	\$161	F1	5.6/2.7-2.8	14	10.44	2,115
	3600	115/208-230	56C	AUTO	O210	56C34D2114	*	\$154	F1	5.6/2.7-2.8	14	10.44	2,115
1/2	3600	115/208-230	56C	MAN	O213	56C34D2099	*	\$176	F1	7.4/3.5-3.7	16	10.69	2,114
	3600	115/208-230	56C	AUTO	O212	56C34D2098	*	\$169	F1	7.4/3.5-3.7	17	10.69	2,114
	3600	115/230	56C	AUTO	C330	5KC36JN268X	*	\$205	F1	7.6/3.8	17	10.31	2,114
3/4	3600	115/208-230	56C	MAN	O215	56C34D2112	*	\$199	F1	9.8/4.8-4.9	18	10.94	2,113
	3600	115/208-230	56C	AUTO	O214	56C34D2104	*	\$199	F1	9.8/4.8-4.9	20	10.94	2,113
	3600	115/230	56C	AUTO	C332	5KC39NN50X	*	\$199	F1	11.2/5.6	22	11.84	2,113
1	3600	115/230	56C	AUTO	C334	5KC39RN44X	*	\$223	F1	13.2/6.6	22	12.59	2,112
	3600	115/208-230	56C	MAN	O217	56C34D2105	*	\$230	F1	12.0/6.2-6.0	24	11.94	2,112
1 1/2	3600	115/208-230	56C	MAN	O231	56B34D2028	*	\$312	F1	13.4/7.4-6.7	25	11.97	1,111
	3600	115/208-230	56C	AUTO	C336	5KC49NN2140X	*	\$304	F1	18.4-9.8/9.2	27	11.38	1,111
2	3600	115/208-230	56C	AUTO	C338	5KC49TN2141X	*	\$377	F1	21.2-11.5/10.6	38	13.22	1,110
	3600	115/208-230	56C	MAN	O232	56B34D5337	*	\$386	F1	19.2/10.3-9.6	33	11.44	1,110
3	3600	115/230	56C	AUTO	C340	5KCR48TN2142T	*	\$599	F1	29.4/14.7	38	12.66	1,18

## Oil Burner, Three Phase

### Dripproof, NEMA 56C, C-Face Footless



#### Features:

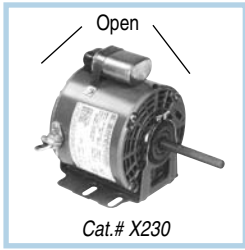
- Double sealed ball bearings
- NEMA Jet Pump Service Factors
- NEMA 56C direct mounting
- Ball Bearings
- UL Recognized and CSA Certified

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/3	3600	208-230/460	56C	NONE	KG215	5K35FN55	*	\$177	F1	1.5-1.8/0.9	14	9.88	68,115
1/2	3600	208-230/460	56C	NONE	K216	5K36JN57	*	\$202	F1	2.0-2.0/1.0	15	10.31	68,114
3/4	3600	208-230/460	56C	NONE	K218	5K37MN37	*	\$243	F1	2.6-2.6/1.3	17	10.7	68,113
1	3600	208-230/460	56C	NONE	K220	5K38PN47	*	\$276	F1	3.3-3.2/1.6	20	11.3	68,112
1 1/2	3600	208-230/460	56C	NONE	K222	5K46KN2173	*	\$336	F1	5.0-4.8/2.4	24	10.73	68,111
2	3600	208-230/460	56C	NONE	K224	5K49NN2180	*	\$395	F1	6.0-6.0/3.0	27	11.33	68,110
3	3600	208-230/460	56C	NONE	K226	5K48TN2182	*	\$473	F1	8.9-8.2/4.1	36	12.61	68,18

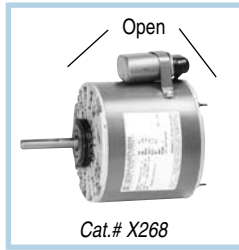


# Refrigeration Fan, PSC, Open Air Over

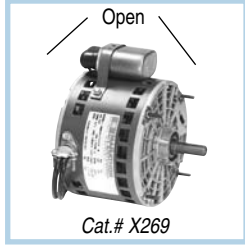
## Resilient Ring & Thru-Bolt Mount



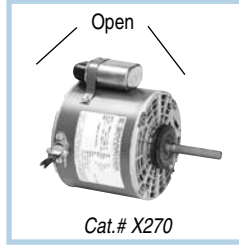
Cat.# X230



Cat.# X268



Cat.# X269



Cat.# X270

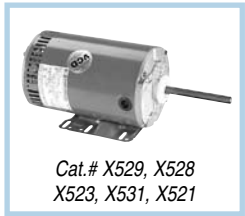
### Features:

- Open end bracket
- Ball Bearings
- Automatic reset thermal protector
- BX connector included in frame (except on Catalog # X262)
- Catalog # X263 and X264 have 12" cord and molded plug
- UL Recognized and CSA Certified
- **Capacitor included (except on Catalog # X262 and X426)**

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.	FOOT NOTES
1/6	1625	208-230	48Y	X269	48A170147	*	\$201	F1	1.2	11	5.00	1/2 x 1 1/2	15
1/4	1625	208-230	48Y	X270	48A170149	*	\$216	F1	1.9	12	5.69	1/2 x 2 1/2	16
	1075	208-230	48Y	X263	48A11011041	*	\$173	F1	2.0	13	4.25	1/2 X 3 3/4	16
1/3	1075	208-230	48Y	X262	48A11D245	*	\$182	F1	1.8	15	7.25	1/2 x 1 5/8	67,69,82
	1625	208-230	48YZ	X230	48A170136	*	\$181	F1	1.8	14	5.69	1/2 x 3 1/2	15
3/4	1075	208-230	48YZ	X268	48A1101239	*	\$221	F1	3.0	14	5.69	1/2 x 2 1/2	15
	1075	460	48YZ	X426	48A1101375	*	\$270	F1	2.2	19	6.38	5/8 X 4 1/2 w/key	67,69

# Refrigeration Fan Motors, Three Phase

## Open Air Over, Shaft Up & Horizontal Rigid Base Mount

Cat.# X529, X528  
X523, X531, X521

Cat.# X507

**Applications:** Replacement motor for refrigeration equipment.

### Features:

- **70°C ambient**
- Enclosed shaft end bracket, vented frame
- Continuous duty
- Automatic reset thermal protector
- Shaft slinger
- Threaded lead exit
- Nameplated 60/50 hertz  
190/380 volts, at next lower HP
- Double sealed ball bearings
- Flat and keyway on shaft
- Patented VCD, Voltage Change Device
- Ball Bearings
- UL Recognized and CSA Certified



HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.	FOOT NOTES	
1/2	850	208-230/460	56HZ	X529	56T805531	*	\$547	F1	2.9-3.0/1.5	31	9.62	5/8 x 5	VC,5	
	1	850	208-230/460	56HZ	X528	56T805306	*	\$614	F1	5.1-5.3/2.65	49	10.62	5/8 x 5	VC,5
		850	208-230/460	56Y	X507	56T805302	*	\$597	F1	5.3-5.3/2.6	46	12.00	5/8 x 5	VC
	850	575	56Y	K1511	5K48WN3181S	*	\$563	F1	2.0	44	10.77	5/8 X 6		
1 1/2	1140	208-230/460	56HZ	X523	56T1105306	*	\$501	F1	5.45-5.4/2.7	36	11.00	5/8 x 5	VC,5	
	850	208-230/460	56HZ	X531	56T8015504	*	\$668	F1	7.0-7.0/3.5	47	11.50	5/8 x 5	VC,5	
2	1140	208-230/460	56HZ	X525	56T1105310	*	\$543	F1	7.2-6.8/3.4	47	12.00	5/8 x 5	VC,54	

# Transformer Cooling Fan Replacement

## TEAO, Single Speed, Rigid Base



### Features:

- External cooling air required
- Reversible rotation
- Ball Bearings
- Optional extended clamp screws
- Z shaft is .50 x 2.25" with 1.91" Flat

### Single Phase

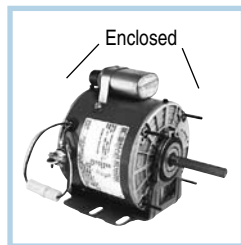
HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/20	1625	115/200-230	48Z	PG240	5KCP35CNA490S	*	\$327	F1	1.5/0.7-0.8	12	10.32	9,25,50,94,113
1/3	1075	115/200-230	56Z	P241	5KCP36RNA491S	*	\$413	F1	4.4/2.1-2.2	21	10.75	9,25,50,94,113

### Three Phase

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/3	1200	200-230/460	56	K1487	5K49MN6126T	*	\$579	F1	2.1-2.0/1.0	27	10.38	68,113

# Unit Heater Fan, PSC, TEAO

## Resilient Base



**Applications:** Replacement motors for unit heaters. Air over motors need to be mounted within the airstream for proper cooling.

### Features:

- Totally enclosed
- Direct drive, air over
- Ball Bearings
- Horizontal or vertical mount
- Weather resistant reversing plug
- BX connector mounted in frame
- 1" Extended thru-bolts
- 48Y Frame has non-standard BA dimension
- Automatic reset thermal protection
- UL Recognized and CSA Certified
- **Capacitor included**

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.	FOOT NOTES
1/6	1625	115	48Y	X305	48A17T2001	*	\$164	F1	2.0	13	4 3/4	1/2 x 2 3/4	
	1625	115	48Y	X301	48A17T72	*	\$146	F1	2.0	13	5 1/4	1/2 x 2 3/4	
	1075	115	48Y	X302	48A11T199	*	\$170	F1	3.0	13	4 3/4	1/2 x 2 3/4	
1/4	1075	115	48Y	X303	48A11T198	*	\$178	F1	4.1	14	4 3/4	1/2 x 2 3/4	
1/3	1075	115	48Y	X304	48A11T201	*	\$197	F1	6.5	21	21	1/2 x 2 3/4	

# Circulator Pump, Split Phase

## Dripproof, Resilient Ring



**Applications:** Direct replacements for Taco hot water circulators.

### Features:

- Quiet sleeve bearing construction
- 48Z frame with 1/2" diameter shaft, 1" long without flat
- 1.40 Service Factor (except as noted)
- Fixed CCW rotation, viewed opposite shaft end
- 4722 replaces Taco No. 110-388, Marathon No. 48S17D1027, 48S17D2102
- 4404 replaces GE No. 5KH32EG129GA, Marathon No. 48S17D1084
- UL Recognized and CSA Certified

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/12	1800	115	48Y	4722	5KH39QN5558T	*	\$116	F1	2.1	12	7.29	4
1/8	1800	115	48Y	4404	5KH39QN5550X	*	\$126	F1	2.6	11	8.93	4
1/4	1800	115	48Y	HG716	5KH36DNA780X	*	\$277	F1	5.7	12	9.01	4,17
1/3	1800	115	48Y	HG717	5KH37GNA782X	*	\$296	F1	6.2	14	9.41	4,17

## ME-CAN-DO Multi-Horsepower Motors

The new Marathon Electric "Me-Can-Do" line of motors is a Multi-horsepower motor that replaces many different ratings.

### Here are some of the advantages of the ME-Can-Do motor:

1. Saves money! Eliminates unnecessary inventory on shelves or in repair trucks.
2. Saves time! No more long drives for replacement motors. No more late hour or emergency shop openings.
3. This motor "Can Do" the job the first time! Offers multiple options in just one motor, no need for temporary substitutions.

### Here are some of the motors that the ME-Can-Do motors replaces today:

#### Condenser Fan Motors

Marathon	Emerson	A.O. Smith
X072	5462	FSE6000
X076	5465	FE6002

#### Direct Drive Fan and Blower Motors

Marathon	Emerson	A.O. Smith
X033	5460	FDL6001
X073	5461	FD6000
X074	5470	FDL6002
X075	5471	FD6001

## ME-CAN-DO Multi-Horsepower Condenser Fan, PSC, TEAO, Thru-Bolt



**Applications:** Direct drive fans for shaft up or horizontal mount. These motors need to be mounted within the airflow of the fan for proper cooling.

### Features:

- Ball Bearings
- 60°C ambient
- Automatic reset thermal protector
- Weather resistant reversing plug
- Reversible by reconnection
- 36" long leads
- Extended thru-bolts, 8-32 1/2" on drive end, 3/4" on non-drive end
- Shaft slinger
- Four Locating screws on frame, 90° apart
- 1/2" x 5" long shaft with two flats 4.50" 90° apart
- UL Recognized and CSA Certified
- **Capacitor not included, see Accessories section**

HP	RPM	VOLTS	FRAME	CAPACITOR (MFD)	SPEED RANGE	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	WEIGHT	F.L. AMPS	FRAME LENGTH
1/3		230		5.0	HI							2.3	
1/3		208		7.5	HI							2.3	
1/4		230		5.0	HI							2.0	
1/4	1075/2	208	48Y	7.5	HI	X072	48A11T646	*	\$191	F1	14	2.0	5 1/2
1/5		230		5.0	LO							1.4	
1/5		208		7.5	LO							1.4	
1/6		230		5.0	LO							1.2	
1/6		208		7.5	LO							1.2	
1/2		230		10.0	HI							2.5	
1/2		208		12.5	HI							2.6	
1/3		230		10.0	HI							2.1	
1/3	1075/2	208	48Y	12.5	HI	X076	48A11T11006	*	\$205	F1	19	2.0	5 1/2
1/4		230		10.0	LO							1.4	
1/4		208		12.5	LO							1.4	
1/5		230		10.0	LO							1.2	
1/5		208		12.5	LO							1.2	

# ME-CAN-DO Multi-Horsepower Fan & Blower - Direct Drive, PSC, Open Air Over

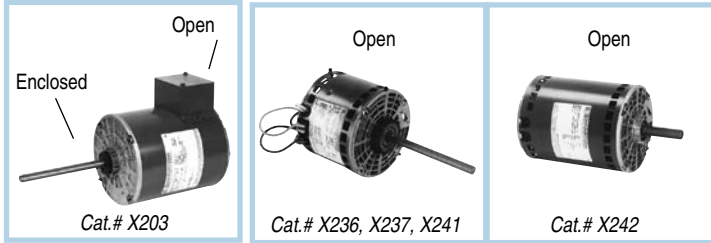
## Resilient Ring, Thru-Bolt



**Applications:** Residential and commercial furnaces, air conditioners, exhaust fans, and other air handling equipment installed in clean and dry environments.

- Features:**
- Open end brackets
  - 2 1/4" Resilient rings
  - 1/2" x 5" long shaft with two flats 4.50" 90° apart
  - Automatic reset thermal protector
  - Weather resistant reversing plug
  - Reversible by reconnection
  - 36" long leads
  - Extended thru-bolts, 8-32 1/2" on shaft end and 3/4" on lead end
  - UL Recognized and CSA Certified
  - **Capacitor not included, see Accessories section**
  - Ball Bearings

HP	RPM	VOLTS	FRAME	CAPACITOR (MFD)	SPEED RANGE	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	WEIGHT	F.L. AMPS	FRAME LENGTH
1/2				10.0	ALL							6.1	
1/3				5.0	ALL							5.2	
1/3				7.5	ALL							4.7	
1/4				5.0	MED-HI							3.6	
1/4	1075/4	115	48Y	7.5	MED-LO, LO	X077	48A11O11066	*	\$145	F1	15	3.2	5
1/5				5.0	MED-LO							2.8	
1/5				7.5	LO							2.5	
1/6				5.0	LO							2.4	
1/6				7.5	LO							2.0	
1/2				10.0	ALL							2.7	
1/3				5.0	ALL							2.3	
1/3				7.5	ALL							2.1	
1/4				5.0	MED-HI							1.6	
1/4	1075/4	208-230	48Y	7.5	MED-LO, LO	X073	48A11O11064	*	\$149	F1	14	1.4	4 3/4
1/5				5.0	MED-LO							1.3	
1/5				7.5	LO							1.1	
1/6				5.0	LO							1.1	
1/6				7.5	LO							0.9	
3/4				20.0	ALL							7.8	
1/2				10.0	ALL							7.1	
1/3	1075/4	115	48Y	10.0	MED-HI, MED-LO, LO	X074	48A11O11042	*	\$173	F1	22	4.9	6
1/4				10.0	MED-LO, LO							3.7	
1/5				10.0	LO							2.9	
3/4				20.0	HI							3.8	
1/2				20.0	MED-HI							2.7	
1/2				10.0	HI							3.7	
1/3	1075/4	208-230	48Y	20.0	MED-LO	X075	48A11O11063	*	\$185	F1	22	1.9	6
1/3				10.0	MED-HI							2.8	
1/4				20.0	LO							1.4	
1/4				10.0	MED-LO							2.6	
1/5				10.0	LO							1.6	

**OEM: Carrier****PSC, Open Air Over****Features:**

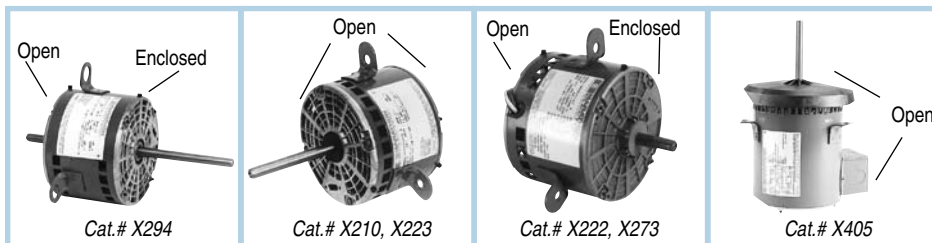
- Ball Bearings
- **Multi-speed capability, as noted**
- Resilient ring/belly band mount
- X236 Replaces Carrier Nos. HC41SE117, P251-2306 & -2307
- X237 Replaces Carrier Nos. HC41SE651, HC39SE651, P251-5306, & P251-5408
- X203 Replaces Carrier No. HC44AL230, Fasco No. D804, & Magnetek No. 655
- X241 Replaces Carrier Nos. HC45SE651 & P251-5701
- X242 Replaces Carrier Nos. HC52AL230, 231, & 232 HC52SE208, P251-5101 & -5102
- **Capacitor not included, see Accessories section**

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.	FOOT NOTES
<b>1/3</b>	1075/4	115	48Y	X236	48A11O699	★	<b>\$173</b>	F1	6.4	16	4 3/4	1/2x6	
	1075/4	208-230	48Y	X237	48A11O694		<b>\$176</b>	F1	4.8	16	5 1/4	1/2x6	
<b>1/2</b>	1075	208-230	48Y	X203	48A11O1062	★	<b>\$216</b>	F1	5.3	19	6 1/2	1/2 x 5 1/2	16
<b>3/4</b>	1075/4	208-230	48Y	X241	48A11O697	★	<b>\$223</b>	F1	5.4	17	5 1/2	1/2x6	
<b>1</b>	1000/3	208-230	48YZ	X242	48A11O756	★	<b>\$377</b>	F1	6.2	26	7 1/4	5/8x4	51,68

Replacements listed may not be an exact duplicate of the original motor

**OEM: Carrier****PSC, Open Air Over****Features:**

- **Single and multi-speed models, as noted**
- 3 lug mounting
- X223 Replaces Carrier No. HC37VE230 & Fasco No. D842
- X273 Replaces Carrier No. HC37ME268, Fasco No. D844, A.O. Smith No. OCA1024, & Magnetek No. 624
- X210 Replaces Carrier Nos. HC37MZ220, HC39VE608, HC39ML706, HC37ME720, HC37ML702
- X210 Replaces Emerson No. 3303, Fasco No. D843, Magnetek No. 514, & A.O. Smith No. OCB1026
- X222 Replaces Carrier Nos. HC41VE700 & 701, Emerson No. 3225, Magnetek No. 536, & A.O. Smith No. OCB1036
- X294 Replaces Carrier No. HC43CE230
- X405 Replaces A.O. Smith No. OCA1056
- Ball bearings (except as noted)
- **Capacitor not included, see Accessories section**



HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.	FOOT NOTES
<b>1/5</b>	1075/1	230	48Y	X223	48A11O2050		<b>\$146</b>	F1	1.3	10	3 3/4	1/2 x 2 3/4	16
<b>1/4</b>	1625/1	230	48Y	X273	48A17O161		<b>\$137</b>	F1	1.5	12	4 1/4	1/2 x 1 5/8	16
	1075/2	208-230	48Y	X210	48A11O1068	★	<b>\$146</b>	F1	2.2	13	4 1/8	1/2 x 4 1/4	
<b>1/3</b>	1075/2	230	48Y	X222	48A11O1109	★	<b>\$182</b>	F1	2.6	15	4 3/4	1/2 x 3	
<b>1/2</b>	1075/1	208-230/460	48Y	X405	48A11O1744	★	<b>\$237</b>	F1	3.6/1.8	25	6 7/8	1/2 x 4	21



## OEM: Carrier

### Three Phase, Open Air Over



#### Features:

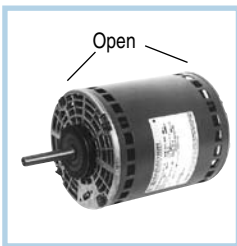
- Ball Bearings
- X235 is **70°C ambient**
- Ball Bearings
- X235 replaces Carrier No. HD52VE214 & Marathon No. 56T11D33
- X251 replaces Carrier No. HD60AZ660 & Marathon No. 56T34D903

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.	FOOT NOTES
1	1140	200-230/460	56Y	X235	56T11D5209	★	\$469	F1	6.6-6.0/3.0	36	10 1/2	5/8 x 2 7/8	
5	3600	208-230/460	56HZ	X251	56T34D5364	★	\$654	F1	13.5-12.4/6.2	50	13.49	7/8 x 2 1/4	Z,5

Replacements listed may not be an exact duplicate of the original motor

## OEM: Evans/Armstrong/LSI Home

### PSC, Open Air Over



#### Features:

- Resilient ring thru-bolt mounting
- Replaces Fasco No. D825 & GE No. 5KCP35G644S
- Ball bearings
- **Capacitor not included, see Accessories section**

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.
1	1625/2	208-230	48Y	X211	48A17O125	★	\$248	F1	6.2	20	6 1/4	1/2 x 2 1/2

## OEM: Greenheck Fan

### PSC, Open Air Over



#### Features:

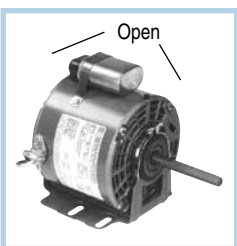
- Thru-bolt mounting
- Automatic reset thermal protector
- Internal cooling fan
- X261 replaces Greenheck No. 300008
- X260 replaces Greenheck No. 300010
- Ball bearings
- **Capacitor included**

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.
1/8	825	115	48Y	X261	48A8O151	★	\$195	F1	2.1	13	5 1/2	1/2 X 2 1/2
1/6	1140	115	48Y	X260	48A11O251	★	\$185	F1	2.2	13	5 1/4	1/2 X 2 1/2

Replacements listed may not be an exact duplicate of the original motor

## OEM: Hill Refrigeration

### PSC, Open Air Over



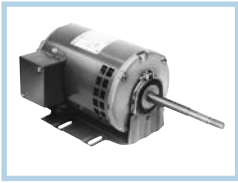
#### Features:

- Resilient base
- Replaces Magnetek No. 160, Steveco No. S3001, Fasco No., D801, GE No. 5KCP39KG1369S
- Ball bearings
- **Capacitor included**

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.	FOOT NOTES
1/3	1625	208-230	48Y	X230	48A17O136	★	\$181	F1	1.8	14	4 3/4	1/2x3 1/2	15

## OEM: Huebsch

### Single Phase, Dripproof, Resilient Base



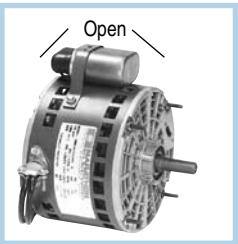
**Applications:** Commercial laundry dryer motors.

- Features:**
- Replaces Huebsch commercial laundry dryer motors
  - Automatic reset thermal protection
  - Special threaded shaft extension
  - X602 has 3/4" shaft adapter included
  - Ball bearings
  - 48YZ have 48/56 Fr. mounting holes

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/4	1725	100-120/200-240	48YZ	X600	48C17D2057		\$239	F1	5.4-6.6/2.7-3.3	18	12.02	16,68
1/3	1725	115/208-230	56Z	X601	56C17D2101	★	\$283	F1	5.8/2.8-2.9	20	14.41	16
1/2	1725	115/208-230	56Z	X602	56C17D2102	★	\$348	F1	8.0/4.0-4.0	24	15.41	16
3/4	1725	115/208-230	56Z	X603	56C17D5346	★	\$439	F1	12.0/5.8-6.0	29	15.10	16

## OEM: Hussman Refrigeration

### PSC, Open Air Over

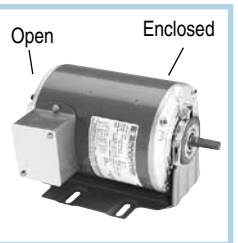


- Features:**
- Thru-bolt mounting
  - Replaces Fasco No. D807, GE No. 5KCP39EGC2447, Magnetek No. 174, Emerson No. 1645
  - Ball bearings
  - **Capacitor included**

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.	FOOT NOTES
1/6	1625	208-230	48Y	X269	48A17O147	★	\$201	F1	1.2	11	4 1/8	1/2 x 1 1/2	15

## OEM: Liebert

### Three Phase, Resilient Base



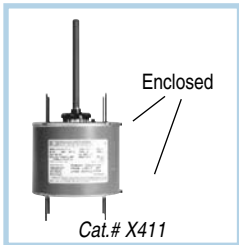
- Features:**
- Replaces GE 5K36PN294S
  - Ball bearings

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.
1/3	1140	208-230/460	48Y	X259	56T11O15	★	\$249	F1	1.9-1.8/9	29	10.06	1/2x1 1/2

Replacements listed may not be an exact duplicate of the original motor

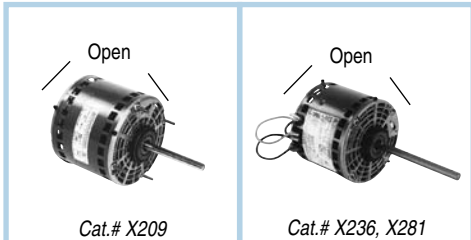
## OEM: Lennox

### PSC, Totally Enclosed & Open Air Over



#### Features:

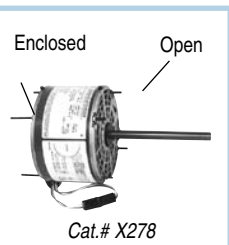
- X411 replaces Lennox No. 47F9901, Magnetek No. 9402, & Marathon Nos. 48A11T300 & 48A11T247
- X209 replaces Fasco No. D2817 & GE No. 5KCP39PG9701S, open/air over
- X236 replaces Lennox No. P-8-7505, Magnetek No. 565, A.O. Smith No. OLE1036, & Fasco No. D812, open/air over
- X281 replaces Lennox No. P-8-2702, Fasco No. D814, GE No. 5KCP39G-GA124S, & Emerson No. 8054, open/air over
- Ball Bearings
- **Capacitor not included, see Accessories section**



HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.	FOOT NOTES
1/6	1075/1	208-230	48Y	X411	48A11T2008	★	\$152	F1	1.3	10	3 3/4	1/2 x 6	
1/3	825/1	230	48Y	X209	48A8O183	★	\$190	F1	3.0	17	5 3/4	1/2 x 5 1/2	34,50
	1075/4	115	48Y	X236	48A11O699	★	\$173	F1	6.4	16	4 3/4	1/2 x 6	39

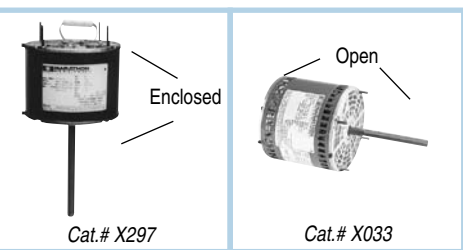
## OEM: Rheem / Ruud

### PSC, Totally Enclosed & Open Air Over



#### Features:

- X278 Replaces Rheem Nos. 21276-02, 21276-01, 51207-01 & Fasco No. D832
- X216 Replaces Emerson No. 5454 & Magnetek No. 619
- X470 Replaces Rheem / Ruud condenser fans
- X297 Replaces A.O. Smith No. ORM1036, Magnetek 620, & Fasco No. D2834
- X033 Replaces Rheem Time-Savers, Emerson No. K55HXMDA-4122, & Rheem / Ruud No. 51-23012-41
- Ball Bearings
- **Capacitor not included, see Accessories section**

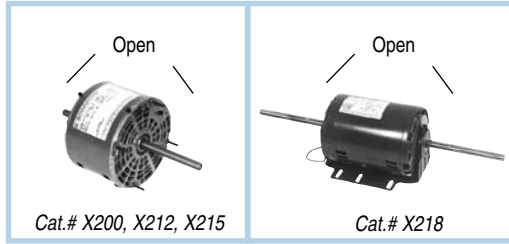


HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.	FOOT NOTES
1/8	825/1	208-230	48Y	X278	48A8O206	★	\$181	F1	.9	11	4 1/4	1/2 x 4 3/4	37,44
1/5	1075/1	208-230	48Y	X216	48A11O1097	★	\$133	F1	1.6	10	3 3/4	1/2 x 6	37,44,60
1/4	1075/1	208-230	48Y	X470	48A11O885	★	\$140	F1	1.6	9	3 3/4	1/2 x 3	56,60
1/3	1075/1	208-230	48Y	X297	48A11T509	★	\$141	F1	1.8	12	4 1/4	1/2 x 3 3/4	N,29,41,60
1/2	1075/4	115	48Y	X033	48A11O1674	★	\$145	F1	6.1	16	5	1/2 x 5	31

Replacements listed may not be an exact duplicate of the original motor

## OEM: Sears/Whirlpool

### PSC, Open Air Over



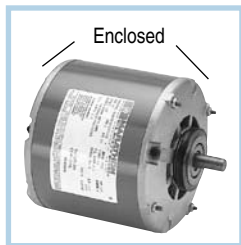
#### Features:

- X215 replaces Delco inside out window a/c, Fasco No. D857, A.O. Smith No.OWL1006, & Emerson No. 1142
- X212 replaces Delco inside out window a/c, Fasco No. D858, & A.O. Smith No. OWR1016
- X200 replaces Delco inside out window a/c, Fasco No. D859, Emerson No. 855, & A.O. Smith No. OWR1036
- X218 replaces Steveco Package unit 3100
- Single Split Phase, Open Air Over
- **Capacitor not included, see Accessories section**

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.	FOOT NOTES
1/8	1100/3	115	48Y	X215	48A11O1081		\$145	F1	1.7	10	3 7/8	4 x 1/2 x 2 3/4	4,16
1/6	1100/3	230	48Y	X212	48A11O1065		\$145	F1	1.1	11	3 7/8	4 x 1/2 x 2 3/4	16
1/3	1100/3	230	48Y	X200	48A11O1060		\$147	F1	1.7	12	4 1/3	6 x 1/2 x 4	4,16
3/4	1075/1	208-230	56Z	X218	56A11O5313	*	\$385	F1	3.9-3.6	34	8 5/8	7 x 5/8 x 7	16,21

## OEM: Taco

### Single Split Phase, Open Air Over



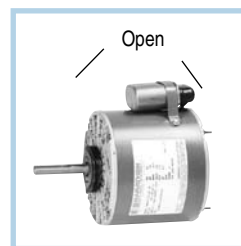
#### Features:

- Resilient ring mounting
- 4722 replaces Taco No. 110-388, Marathon No. 48S17D1027, 48S17D2102
- 4404 replaces GE No. 5KH32EG129GA, Marathon No. 48S17D1084
- UL Recognized and CSA Certified

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	SHAFT DIM.	FOOT NOTES
1/12	1800	115	48Y	4722	5KH39QN5558T	*	\$116	F1	2.1	12	7.29	1/2 x 1	4
1/8	1800	115	48Y	4404	5KH39QN5550X	*	\$126	F1	2.6	11	8.93	1/2 x 1 1/2	4

## OEM: Tyler

### PSC, Open Air Over



#### Features:

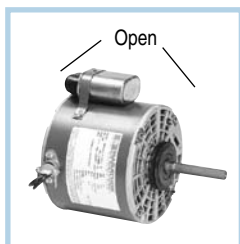
- Resilient ring thru-bolt mounting
- Replaces Tyler No. 760, Fasco No. D870, & A.O. Smith No. OTY1024
- Ball bearings
- **Capacitor included**

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.	FOOT NOTES
1/4	1625/1	208-230	48Y	X270	48A17O149	*	\$216	F1	1.9	12	4 3/4	1/2 x 2 1/2	16

Replacements listed may not be an exact duplicate of the original motor

## OEM: Warren

### PSC, Open Air Over



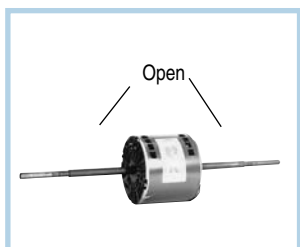
#### Features:

- Resilient ring mounting
- Ball bearings
- Capacitor included

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.	FOOT NOTES
1/3	1075/1	208-230	48Y	X268	48A11O1239	★	\$221	F1	3.0	14	4 3/4	1/2 x 2 7/8	15

## OEM: York

### PSC, Open Air Over



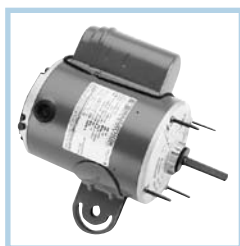
#### Features:

- Round belly band mounting
- Replaces York No. K44HXJAF-4955 & Fasco No. D873, A.O. Smith No. OYK1056, Magnetek No. 468
- Ball bearings
- Capacitor not included, see Accessories section

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.	FOOT NOTES
1/2	1050	230	48Y	X295	48A11O1410		\$197	F1	3.9	19	5	9 1/4x1 1/2x9 1/8	15

## Pedestal Fan, PSC, TEAO

### 48 Frame, Yoke Mount



#### Features:

- Heavy gauge steel frame and yoke fan shroud mounted by four 7/8" extended stud bolts on 5-1/8" bolt circle
- **Single and multi-speed models as noted**
- Automatic reset thermal protector
- 1/2" x 2-1/2" long shaft with two flats, 90° apart
- 1.0 Service Factor
- Ball bearings (except as noted)
- **Capacitor included**
- UL Recognized and CSA Certified

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	FRAME LENGTH	SHAFT DIM.	FOOT NOTES
1/4	1625/1	115/230	48Y	X920	48A17T2005	★	\$203	F1	3.6/1.8	22	7.3	10.56	17
	1075/2	115	48Y	X923	48A11T2024	★	\$237	F1	3.2	18	6.5	9.81	17
1/3	1625/1	115/230	48Y	X921	48A17T2006	★	\$221	F1	3.8/1.9	24	7.8	11.06	17
	1075/2	115	48Y	X924	48A11T2025	★	\$256	F1	4.2	19	6.5	9.81	17
1/2	1625/1	115/230	48Y	X922	48A17T2007	★	\$244	F1	5.4/2.7	27	8.0	11.31	17
	1075/2	115	48Y	X925	48A11T2026	★	\$285	F1	5.7	25	7.5	10.81	17

Replacements listed may not be an exact duplicate of the original motor



# Air Compressor, Single Phase

## Dripproof, Rigid Base



### Features:

- Capacitor start / capacitor run design for low amps and high efficiency, as noted
- High starting and breakdown torque
- Heavy gauge steel frame and base
- Continuous duty at nameplate ratings
- Thermal protection, as noted
- UL Recognized and CSA Certified

DEFINITE PURPOSE

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/2</b>	3600	115	56	MANUAL	9031	5KC49MN2043Y	★	\$215	F1	11.5	20	11.14	2,17
	1800	115/208-230	56	MANUAL	C169	5KC49GN0010Y	★	\$284	F1	8.8/4.4	21	10.38	2
<b>3/4</b>	3600	115	56	MANUAL	9032	5KC49MN2049Y	★	\$250	F1	12.5	27	11.14	2,17
	1800	115/208-230	56	MANUAL	K016	56B17D56		\$348	F1	11.0/5.5	25	11.47	1
<b>1</b>	3600	115/208-230	56	MANUAL	D010	56B34D2029	★	\$287	F1	10.6/5.5-5.3	23	11.72	1
	1800	115/208-230	56	MANUAL	C1480	5KC49PN0161Y	★	\$379	F1	13.6/6.8	31	11.38	2
<b>1 1/2</b>	3600	115/208-230	56	MANUAL	C704	5KC49PN2521Y	★	\$369	F1	21.3/10.6	31	11.91	2
	1800	115/208-230	56H	MANUAL	G951	56C17D5308	★	\$443	F1	18.0/9.3-9.0	39	12.44	2,5,7
<b>2</b>	3600	115/208-230	56H	MANUAL	9035	5KCR48TN2650Y	★	\$464	F1	15.0/7.5	38	11.14	ES,1,17
	1800	115/208-230	145T	MANUAL	I127	145TBDR5337	★	\$534	S1	18.8/10.2-9.4	48	13.49	1,7
<b>3</b>	3600	230	56H	MANUAL	9036	5KCR48UN2653Y	★	\$602	F1	15.0	40	11.44	ES,1,17
	1800	230	184T	NONE	Z502	184TBDR5326	★	\$559	S1	12.6	51	14.27	1
<b>SPCL</b>	3600	230	56	MANUAL	9040	5KCR48UN2654Y	★	\$542	F1	15.0	40	12.1	ES,1
<b>5</b>	3600	230	56H	MANUAL	9038	5KCR49ZN2151U	★	\$644	F1	21.0	49	15.04	ES,1,5,17
	3600	230	56H	MANUAL	D017	56B34D5302	★	\$640	F1	20.0	55	13.94	1,5
	3600	230	184T	NONE	Z504	184TBDR5301		\$785	S1	20.0	62	14.77	1
	1800	208-230	184T	MANUAL	I119	184TBDR7375	★	\$891	S1	25.0-24.1	83	16.22	1
	1800	208-230	184T	NONE	I114	184TBDR7026	★	\$686	S1	23.0-21.0	87	15.70	d,1
	1800	208-230	184T	NONE	I114A	184TBDW7026	★	\$686	S1	23.0-21.0	82	14.69	1,13
	1800	208-230	184T	NONE	Z506A	184TBDW7656		\$672	S1	22.0-20.0	81	15.21	1,13
	1800	208-230	184T	NONE	I108A	184TBDW7001	★	\$770	S1	34.3-31.0	103	16.69	1,13
<b>7 1/2</b>	3600	208-230	213T	NONE	I105	213TCDW7001	★	\$1,047	S1	40.0-37.0	102	16.55	2
	1800	208-230	215T	NONE	I115	215TBDW7026	★	\$1,027	S1	37.2-34.5	115	18.05	1
<b>10</b>	1800	208-230	215T	NONE	I116	215TBDW7028	★	\$1,322	S1	49.0-44.0	140	19.3	1

# Cooling Tower: Two-Speed-One Winding, Variable Torque Blue Chip® Severe Duty, XRI®

## Three Phase, Totally Enclosed, Rigid Base



**IP55**

**Applications:** Cooling towers, Fan and Blowers, and other severe duty environments where long life and ultra-high efficiency are desired. Guaranteed efficiencies offer an eXtra Return on your Investment when using these premium efficiency motors on high cycle or long run applications. Replacement for two-speed Marley cooling tower motors.

- Features:**
- Blue Chip® quality, 100% cast iron construction for rigidity and reduced vibration
  - Internal and external epoxy paint
  - Class F insulation
  - 1.15 Service Factor
  - Extended grease tubes, regreasable in service
  - T-drains provided for effective drainage (Installed in both endshields)
  - Shaft Slinger
  - Forsheda seals on both ends
  - Actual test and vibration data supplied with each motor
  - Ball Bearings
  - UL Recognized and CSA Certified
  - Three year warranty
  - Horizontal mounting only; consult Engineering for Vertical mounting

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
3/7.5	1800/900	460	184T	Y380	184TTFS7290		\$1,384	S3	85.5	4.0/1.75	141	16.19	
5/1.25	1800/900	460	213T	Y381	213TTFS7238		\$1,530	S3	89.5	6.0/2.4	199	19.72	
7.5/1.9	1800/900	460	215T	Y382	215TTFS7290	*	\$1,983	S3	89.5	9.0/3.1	142	19.72	
10/2.5	1800/900	460	254T	Y383	254TTFNA7210		\$2,390	S3	90.2	12.0/4.0	360	23.52	
15/3.75	1800/900	460	256T	Y384	256TTFNA7250	*	\$2,985	S3	90.2	18.0/6.0	381	25.27	
20/5	1800/900	460	284T	Y385	284TTFNA7240	*	\$3,725	S3	91.7	24.0/8.5	489	26.34	
25/6.25	1800/900	460	286T	Y386	286TTFNA7260	*	\$4,347	S3	91.7	31.0/11.0	168	27.84	
30/7.5	1800/900	460	324T	Y387	324TTFS7290	*	\$5,305	S3	91.0	35.0/11.2	668	28.87	
40/10	1800/900	460	326T	Y388	326TTFS9210	*	\$6,630	S3	87.5	46.0/14.6	451	30.37	
50/13	1800/900	460	364T	Y389	364TTFS9234	*	\$8,432	S3	92.4	61.0/24.0	958	31.50	
60/15	1800/900	460	365T	Y390	365TTFS9230	*	\$12,204	S3	92.4	75.0/25.0	1000	32.50	
75/18.75	1800/900	460	405T	Y391	405TTFS7297		\$15,786	S3	94.1	83.0/27.0	1331	37.12	
100/25	1800/900	460	444T	Y392	444TTFS7262		\$19,093	S3	94.1	113/37.5	1781	41.25	

Blue shaded areas are Cast Iron Frames

DEFINITE PURPOSE

# Multi-Speed: Two-Speed, One-Winding, Variable Torque

## Three Phase, Dripproof, Rigid Base



**Applications:** Commercial and industrial fans, blowers, pumps, and other machinery that have variable torque characteristics. Prolonged use at low speed can result in significant energy savings. Dripproof motors are intended for use in environments that are relatively clean and dry. For use outdoors an enclosure or drip cover may be required (see Accessories section).

- Features:**
- Ball Bearings
  - 1.15 Service Factor
  - UL Recognized and CSA Certified

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
3/7.5	1800/900	200-230	182T	Y1484	182TTDW7412	★	\$651	S3	82.7	8.8-3.8/8.0-3.6	65	14.19	F,13
	1800/900	460	182T	Y485A	182TTDW7203	★	\$651	S3	82.7	4.0/1.8	58	13.19	13,25
5/1.25	1800/900	200-230	184T	Y486	184TTDR7287	★	\$912	S3	85.5	15.0-14.0/6.0-6.2	87	14.72	d,F,13,25
	1800/900	200-230	184T	Y486A	184TTDW7287	★	\$912	S3	85.5	14.5-13.8/5.6-6	40	14.19	F,13
	1800/900	460	184T	Y1487	184TTDW7209	★	\$912	S3	85.5	6.9/3.0	80	14.72	13
7.5/1.88	1800/900	200-230	213T	Y488	213TTDW7202	★	\$1,131	S3	86.5	21.6-19.8/7.6-7.8	110	17.30	
	1800/900	460	213T	Y489	213TTDW7201	★	\$1,131	S3	87.5	9.6/3.6	118	17.30	
10/2.5	1800/900	200-230	215T	Y490	215TTDW17206	★	\$1,429	S3	86.5	29.0-26.4/10.0-10.0	87	18.55	F,13
	1800/900	460	215T	Y491	215TTDW7201	★	\$1,429	S3	86.5	12.5/4.5	106	17.30	
15/3.75	1800/900	460	256T	Y492	256TTDX7207	★	\$1,876	S3	87.5	18.4/6.1	197	22.32	
20/5	1800/900	460	284T	Y493	284TTDP7202	★	\$2,335	S3	87.5	25.0/8.0	320	23.49	

# Multi-Speed: Two-Speed, Two-Winding, Variable Torque

**Additional Features:** ▪ Economical two-winding design

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/25	1800/900	460	145T	Y465	145TTDR5701	★	\$785	S3	79.5	1.5/0.75	42	12.99	5,13
1/44	1800/1200	200-230	145T	Y449	145TTDR5703	★	\$785	S3	80.0	3.4-3.2/2.0-2.0	42	12.99	5,13
	1800/1200	460	145T	Y450	145TTDR5704	★	\$785	S3	78.5	1.5/1.0	39	12.49	5,13
1.5/37	1800/900	460	145T	Y466	145TTDR5702	★	\$861	S3	78.5	2.2/1.1	47	13.49	5,13
1.5/67	1800/1200	200-230	145T	Y451	145TTDR5705	★	\$861	S3	80.0	5.0-4.8/2.6-2.9	47	13.49	5,13
	1800/1200	460	145T	Y452	145TTDR5706	★	\$861	S3	78.5	2.3/1.3	42	12.99	5,13
2/5	1800/900	460	182T	Y467A	182TTDW7411	★	\$949	S3	82.0	2.8/2.15	68	13.19	13
2/88	1800/1200	200-230	182T	Y453	182TTDR7413	★	\$949	S3	81.0	6.5-6.3/3.5-3.5	66	13.72	d,13,25
	1800/1200	200-230	182T	Y1453	182TTDW7413	★	\$949	S3	76.4	6.6-6.5/3.8-4	60	12.69	13
2/9	1800/1200	460	182T	Y409	182TTDR7211	★	\$949	S3	80.0	3.0/1.7	55	12.72	25
	1800/1200	460	182T	Y409A	182TTDW7211	★	\$949	S3	76.4	3.3/2.0	60	12.69	13
3/7.5	1800/900	460	184T	Y468	184TTDR7230	★	\$988	S3	82.5	4.3/1.8	68	13.72	d,25
	1800/900	460	184T	Y468A	184TTDW7230	★	\$988	S3	82.5	4/2.75	68	13.72	13
3/1.3	1800/1200	200-230	184T	Y454	184TTDR7286	★	\$988	S3	82.5	9.3-8.5/4.9-4.6	79	14.72	d,13,25
	1800/1200	200-230	184T	Y454A	184TTDW7286	★	\$988	S3	82.0	9.0-8.6/4.6-5	74	13.69	13
	1800/1200	460	184T	Y412	184TTDR7215	★	\$988	S3	82.5	4.6/2.7	69	13.72	d,25
	1800/1200	460	184T	Y412A	184TTDW7215	★	\$988	S3	82.0	4.3/2.5	74	13.69	13
5/1.25	1800/900	460	215T	Y469	215TTDW7205	★	\$1,382	S3	86.5	6.8/3.1	118	17.30	
5/2.22	1800/1200	200-230	215T	Y455	215TTDW7204	★	\$1,382	S3	85.5	14.5-13.0/7.3-7.0	116	17.30	
	1800/1200	460	215T	Y415	215TTDW7203	★	\$1,382	S3	85.5	6.5/3.5	106	17.30	
7.5/1.9	1800/900	460	254T	Y470	254TTDX7201	★	\$1,715	S3	85.5	10.5/4.1	135	20.57	
7.5/3.3	1800/1200	200-230	254T	Y456	254TTDX7278	★	\$1,715	S3	87.5	20.8-18.4/11.0-10.2	175	22.32	
	1800/1200	460	254T	Y418	254TTDX7208	★	\$1,715	S3	84.0	10.0/5.6	154	20.57	
10/2.5	1800/900	460	256T	Y471	256TTDX7253	★	\$2,126	S3	86.5	12.9/5.6	145	22.32	
10/4.4	1800/1200	200-230	256T	Y457	256TTDX7263	★	\$2,126	S3	88.5	28.0-26.0/15.0-14.0	214	22.32	
	1800/1200	460	256T	Y458	256TTDX7264	★	\$2,126	S3	87.5	12.0/6.5	214	22.32	
15/3.8	1800/900	460	284T	Y472	284TTDP7205	★	\$2,844	S3	88.5	18.0/6.5	300	23.49	
15/6.7	1800/1200	460	284T	Y459	284TTDP7221	★	\$2,844	S3	87.5	18.5/9.5	325	23.49	
20/5	1800/900	460	286T	Y473	286TTDP7251	★	\$3,543	S3	88.5	25.0/8.5	321	24.99	
20/8.9	1800/1200	460	286T	Y460	286TTDP7217	★	\$3,543	S3	88.5	25.0/12.0	326	24.99	

Blue shaded areas are Cast Iron Frames

DEFINITE PURPOSE

# Instant Reversing

## Single Phase

### Features:

- Thermal protection, as noted
- Electronic instant reverse switch
- Extended clamp screws for mounting belt guard or accessories
- Three pole, double throw reversing switch supplied by customer

### Capacitor Start, Dripproof

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/4	1800	115	48	NONE	CG382	5KC35GNA488	★	\$301	F1	5.2	14	9.57	20
1/3	1800	115	56	MANUAL	CG384	5KC35JNA489Y	★	\$371	F1	6.3	16	9.89	20
	1800	115	56	NONE	CG383	5KC35JNA489	★	\$366	F1	6.3	15	9.89	20
1/2	1800	115/230	56	MANUAL	C1459	5KC46GN0251Y	★	\$416	F1	8.8/4.4	21	10.78	19
	1800	115/230	56	NONE	C1458	5KC46GN0251	★	\$395	F1	8.8/4.4	21	10.78	19
3/4	1800	115/230	56	MANUAL	C1461	5KC46LN0252Y	★	\$474	F1	13.2/6.6	25	10.78	19
	1800	115/230	56	NONE	C1460	5KC46LN0252	★	\$459	F1	13.2/6.6	25	10.78	19
1	1800	115/230	56	NONE	C1469	5KC49PN0253	★	\$553	F1	13.6/6.8	31	11.38	18

### Capacitor Start, TEFC

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
3/4	1800	115/230	56	MANUAL	C1489	5KC46PN0359Y	★	\$583	F1	11.0/5.5	31	11.83	17

### PSC, Dripproof

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/3	1625/1325	115	56	MANUAL	P254	5KCP35KNB650U	★	\$371	F1	3.8	18	9.94	17
1/2	1625/1325	115	56	MANUAL	PG252	5KCP36NNB670U	★	\$395	F1	5.4	18	10.33	17
	1625/1325	115	56	MANUAL	P253	5KCP36NNB671U	★	\$416	F1	5.4	18	10.30	12,17

### PSC, TENV

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/2	1625	115	48	AUTO	P247	5KCP35NNA670T	★	\$327	F1	5.8	18	9.42	17,94,96

DEFINITE PURPOSE

# Kiln Duty, XRI® Premium Efficiency Blue Chip® Severe Duty

## TEAO, Rigid Base, Three Phase



**Applications:** Fans found in kilns and other high ambient environments where long life and high efficiency are desired. These TEAO motors must be mounted within the airstream for proper cooling. Suitable for use on variable frequency drives.

- Features:**
- Blue Chip quality, 100% cast iron construction for rigidity and reduced vibration
  - Internal and external epoxy paint
  - CR<sup>200</sup> Corona resistant magnet wire
  - Class H insulation system
  - Normally closed thermostats (one per phase, Class H)
  - Heat stabilized ball bearings and high temperature grease
  - Suitable for inverter use for 20:1 Variable Torque with 1.0 S.F.
  - Suitable for 90°C ambient at 1.15 S.F. or 100°C ambient at 1.0 S.F.
  - Extended grease tubes, regreasable in service
  - 8 Foot Leads
  - UL Recognized and CSA Certified

DEFINITE PURPOSE

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.
<b>1</b>	1200	460	145T	S501	145TTN18577		\$1,309	E9	80.0	1.7	59	11.43
<b>2</b>	1800	460	145T	S503	145TTN18531		\$1,309	E9	85.5	2.8	68	11.43
	1800	575	145T	S553	145TTN18532		\$1,309	E9	85.5	2.3	69	11.43
	1200	460	184T	S504	184TTTS18577		\$1,810	E9	87.5	3.0	115	13.71
	1200	575	184T	S554	184TTTS18578		\$1,810	E9	87.5	2.4	115	13.71
<b>3</b>	1800	460	182T	S506	182TTTS18532		\$1,769	E9	90.2	3.9	99	13.71
	1200	460	213T	S507	213TTTS17077		\$1,922	E9	89.5	4.3	175	15.69
	1200	575	213T	S557	213TTTS17078		\$1,922	E9	89.8	3.5	175	15.69
<b>5</b>	1200	460	215T	S510	215TTTS17077	★	\$2,213	E9	87.5	6.9	185	17.19
	1200	575	215T	S560	215TTTS17078	★	\$2,213	E9	88.5	5.5	200	17.19
<b>7 1/2</b>	1200	460	254T	S513	254TTTNA17077	★	\$2,714	E9	90.2	9.8	660	20.60
	900	575	256T	S564	256TTTNA18601		\$3,040	E9	88.5	8.6	310	22.35
<b>10</b>	1200	460	256T	S516	256TTTNA18578	★	\$3,112	E9	91.0	12.8	140	22.35
	1200	575	256T	S566	256TTTNA18577		\$3,112	E9	91.0	10.2	425	22.35
	900	460	284T	S517	284TTTNA18601		\$3,226	E9	88.5	15.2	475	23.44
	900	575	284T	S567	284TTTNA17101	★	\$3,226	E9	88.5	12.2	457	23.44
<b>15</b>	1800	460	254T	S518	254TTTNA18530		\$2,561	E9	92.4	18.2	276	20.60
	1200	460	284T	S519	284TTTNA16577		\$3,727	E9	91.7	20.5	425	23.44
	1200	575	284T	S569	284TTTNA18577		\$3,727	E9	91.7	16.4	475	23.44
<b>20</b>	1200	460	286T	S522	286TTTNA18577		\$4,082	E9	91.7	27.0	520	24.94
	900	460	324T	S523	324TTTS18601		\$4,988	E9	90.2	29.5	536	26.00
<b>25</b>	1200	460	324T	S525	324TTTS18577		\$5,128	E9	92.4	33.0	675	26.00
<b>30</b>	1200	460	326T	S528	326TTTS18577		\$5,430	E9	93.0	38.0	725	27.50

Blue shaded areas are Cast Iron Frames



# Oil Well Pump, Three Phase

## Dripproof, Rigid Base



**Applications:** For use on walking beam pumps found in oil field service.

- Features:**
- NEMA design D for extra high starting and breakdown torques
  - Normally closed thermostats (one per phase, Class F)
  - Fully guarded with screens on all external openings
  - Copper bar rotor on 500 frame
  - Low starting current with 5-8% slip
  - Class F insulation
  - F2 conduit box location
  - Ball bearings (except as noted)
  - Shaft slinger
  - Special "oil well" duty
  - 1.15 Service Factor

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
3	1200	230/460/796	215T	Y201	215TTDW7376		\$1,295	S7	82.5	10.6/5.3/3.1	104	17.30	
5	1200	230/460/796	215T	Y202	215TTDW7377	★	\$1,496	S7	84.0	16.6/8.3/4.8	118	17.30	
7 1/2	1200	230/460/796	254T	Y203	254TTDX7377		\$1,925	S7	85.5	22.0/11.0/6.4	220	21.29	
10	1200	230/460/796	256T	Y204	256TTDX7391	★	\$2,375	S7	86.5	29.0/14.5/8.4	462	23.04	
15	1200	230/460/796	284T	Y215	284TTDP7692	★	\$2,872	S7	87.5	41.0/20.5/11.9	330	23.44	
20	1200	230/460/796	286T	Y216	286TTDP7689	★	\$3,495	S7	87.5	53.0/26.5/15.3	368	24.94	
25	1200	460/796	324T	Y217	324TTDP7687	★	\$4,290	S7	88.5	34.0/19.7	460	26.00	
30	1200	460/796	326T	Y218	326TTDP7697	★	\$5,128	S7	88.5	40.0/23.1	498	27.50	
40	1200	460/796	365T	Y209	365TTDS7383		\$6,733	S7	87.5	48.0/27.7	713	29.93	
50	1200	460/796	404T	Y210	404TTDS7387	★	\$8,135	S7	87.5	60.0/34.5	951	32.81	d
60	1200	460/796	405T	Y211	405TTDS7697		\$9,595	S7	87.5	71.0/41.0	1018	34.31	
75	1200	460/796	444T	Y212	444TTDS8699	★	\$10,772	S7	90.2	91.5/53.0	1239	38.06	
100	1200	460/796	445T	Y213	445TTDS9477		\$14,363	S7	88.5	124/71.5	1327	40.06	
125	1200	460/796	505U	Y219	505UTDS1584		\$21,042	S7	90.2	175/101	1995	45.19	RB
150	1200	460/796	505U	Y220	505UTDS1590		\$22,486	S7	91.0	175/101	2285	45.19	RB

Blue shaded areas are Cast Iron Frames

DEFINITE PURPOSE

# Pressure Washer, Single Phase

## Dripproof



### Features:

- Ball bearings, shaft end mechanically locked on C-face models
- Heavy gauge steel constructions
- Capacitor start/capacitor run design for higher efficiency, as noted
- Continuous duty, 1.15 Service Factor (except as noted)
- Thermal protection on some models
- UL Recognized and CSA Certified



DEFINITE PURPOSE

## Rigid Base

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>3/4</b>	3600	115	56	MANUAL	9032	5KC49MN2049Y	★	\$250	F1	12.5	27	11.14	2,17
	1800	115	56	AUTO	9030	5KC49NN0222X		\$348	F1	10.5	16	11.14	2,17
	1800	115/208-230	56	MANUAL	K016	56B17D56		\$348	F1	11.0/5.5-5.5	25	11.47	1
<b>1</b>	3600	115/208-230	56	MANUAL	D010	56B34D2029	★	\$287	F1	10.6/5.5-5.3	23	11.72	1
	1800	115/230	56	MANUAL	C1480	5KC49PN0161U	★	\$379	F1	13.6/6.8	31	11.38	2
<b>1 1/2</b>	3600	115/208-230	56	MANUAL	G987	56B34D2021		\$390	F1	14.8/8.0-7.4	26	11.72	1
	1800	115/208-230	56H	MANUAL	G958	56B17D5323	★	\$461	F1	13.2/7.2-6.6	37	11.94	1,5,14
<b>2</b>	3600	115/208-230	56H	MANUAL	G976	56B34D5304		\$483	F1	17.6/9.7-8.8	34	11.44	1,5,14
	1800	115/208-230	145T	MANUAL	I127	145TBDR5337	★	\$534	S1	18.8/10.2-9.4	48	13.49	1,14
	1800	115/208-230	56H	MANUAL	G979	56B17D5319		\$608	F1	18.8/10.2-9.4	47	13.44	1,5,14
<b>3</b>	3600	208-230	56H	MANUAL	G996	56B34D5334		\$619	F1	14.2-12.5	44	12.44	1,5,14
	1800	208-230	184T	NONE	I128	184TBDR7631	★	\$624	S1	15.4-13.7	71	15.22	d,1
	1800	208-230	184T	NONE	I128A	184TBDW7631	★	\$624	S1	13.8-12.8	71	13.69	1,13
	1800	208-230	184T	MANUAL	I130	184TBDR7630	★	\$676	S1	15.4-13.7	71	15.22	d,1
	1800	208-230	184T	MANUAL	I130A	184TBDW7630	★	\$676	S1	13.8-12.8	70	13.69	1,13
<b>5</b>	1800	208-230	184T	MANUAL	I119	184TBDR7375		\$891	S1	25.0-24.1	83	16.22	1
	1800	208-230	184T	NONE	I131	184TBDR7632	★	\$900	S1	25.0-24.1	83	16.22	d,1
	1800	208-230	184T	NONE	I131A	184TBDW7632	★	\$900	S1	22.0-20.0	89	15.19	1,13

## C-Face with Rigid Base

HP	RPM	VOLTS	FRAME	OVER LOAD	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1 1/2</b>	3600	115/208-230	56C	MANUAL	K212	56B34D2018		\$409	F1	14.8/8.0-7.4	26	11.72	
	1800	115/208-230	56HC	MANUAL	G290	56B17D5328		\$478	F1	13.2/7.2-6.6	39	11.94	5
<b>2</b>	3600	115/208-230	56HC	MANUAL	G294	56B34D5307		\$499	F1	16.8/9.4-8.4	34	11.44	5
	1800	115/208-230	56HC	MANUAL	K232	56B17D5322	★	\$596	F1	18.8/10.2-9.4	49	13.43	5
<b>3</b>	3600	208-230	56HC	MANUAL	K219	56B34D5336		\$635	F1	14.2-12.5	42	12.44	5
	1800	208-230	184TC	MANUAL	I305	184TBDR7628		\$741	S1	15.4-13.7	83	15.96	1
<b>5</b>	1800	208-230	184TC	MANUAL	I308	184TBDR7634		\$1,020	S1	25.0-24.1	97	16.96	1

# Pressure Washer, Single Phase

## Totally Enclosed Fan Cooled



### Features:

- Ball bearings, shaft end mechanically locked on C-face models
- Heavy gauge steel constructions
- Capacitor start/capacitor run design for higher efficiency, as noted
- Continuous duty, 1.15 Service Factor
- Manual reset thermal protector
- UL Recognized and CSA Certified

## Rigid Base

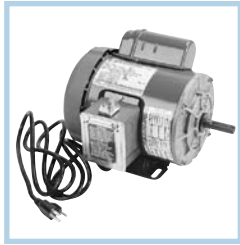
HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>3/4</b>	3600	115/208-230	56	G379	56C34F5309	★	\$278	F1	10.6/5.3-5.3	26	12.32	2,14
	1800	115/208-230	56	G356	56C17F5308	★	\$384	F1	11.0/5.4-5.5	29	12.32	2,14
<b>1</b>	3600	115/208-230	56	G390	56C34F5311	★	\$315	F1	12.4/6.7-6.2	31	12.32	2,14
	1800	115/208-230	56	G373	56C17F5311	★	\$402	F1	13.4/6.8-6.7	30	12.82	2,14
<b>1 1/2</b>	3600	115/208-230	56	K332	56B34F5303		\$427	F1	12.1/6.9-6.1	37	13.32	1,14
	1800	115/208-230	56H	G378	56B17F5302	★	\$461	F1	15.2/8.2-7.6	40	13.82	1,5,14
<b>2</b>	1800	115/230	145T	I702	145TBFR5336		\$591	S1	18.8/9.4	52	14.87	1,14

## C-Face with Rigid Base

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1/2</b>	1800	115/208-230	56C	G380	56C17F5957		\$355	F1	8.8/4.2-4.4	27	11.82	2
<b>3/4</b>	1800	115/208-230	56C	G381	56C17F5955	★	\$425	F1	11/5.4-5.5	22	12.32	2
<b>1</b>	1800	115/208-230	56C	G382	56C17F5956	★	\$444	F1	13.4/6.8-6.7	31	12.82	2
<b>1 1/2</b>	3600	115/208-230	56C	K612	56B34F5306	★	\$443	F1	12.1/6.9-6.0	37	13.32	1
	1800	115/208-230	56HC	G396	56B17F5310	★	\$506	F1	13.6/7.5-6.8	43	13.82	1,5
<b>2</b>	3600	115/230	56HC	K615	56B34F5312	★	\$526	F1	17.5/8.7	37	13.32	1,5
	1800	115/230	145TC	I311	145TBFR5333		\$716	S1	18.8/9.4	52	14.87	1
	1800	115/230	56HC	K319	56B17F5319	★	\$601	F1	18.8/9.4	50	14.82	1,5
<b>3</b>	3600	230	56HC	K618	56B34F5318	★	\$663	F1	11.8	51	14.82	1,5
	1800	230	184TC	I314	184TBFR7041	★	\$896	S1	13.7	86	17.61	d,1
	1800	230	184TC	I314A	184TBFW7041	★	\$896	S1	12.8	86	14.96	1,13
<b>5</b>	1800	230	184TC	I315	184TBFR7034	★	\$1,069	S1	21.0	101	18.72	d,1,17
	1800	230	184TC	I315A	184TBFW7034	★	\$1,069	S1	19.5	101	17.47	1,13,17

# Woodworking/Power Tool, Single Phase

## Totally Enclosed, Rigid Base



**Applications:** Replacement motors for table saws, planers, lathes, and other equipment found in the woodworking and metalworking trades. These totally enclosed, fan cooled motors are well suited for use in dusty and dirty environments or where wood or metal shavings are present.

- Features:**
- Capacitor start design for high starting torque with low amps
  - Double sealed ball bearings
  - Heavy gauge steel frame and base
  - 1.15 Service Factor
  - Manual reset thermal protector
  - Dependable, dust-proof centrifugal starting switch
  - On/off toggle switch and 8 foot cord with 115 volt plug included on 1/2 to 1-1/2 HP models
  - UL Recognized and CSA Certified

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1/2	1800	115/208-230	56	T010	56C17F5351		\$367	F1	8.8/4.2-4.4	29	11.82	2
3/4	3600	115/208-230	56	T013	56C34F5340	*	\$332	F1	10.6/5.3-5.3	27	12.32	2
	1800	115/208-230	56	T014	56C17F5350		\$429	F1	11.0/5.4-5.5	30	12.32	2
1	3600	115/208-230	56	T015	56C34F5339	*	\$369	F1	12.4/6.7-6.2	30	12.32	2
1 1/2	3600	115/208-230	56	T017	56B34F5332	*	\$453	F1	14.2/7.7-7.1	33	12.82	1
	1800	115/208-230	56	T018	56B17F5328		\$551	F1	13.6/7.5-6.8	44	13.73	1
2	3600	115/230	56H	T019	56B34F5333	*	\$493	F1	17.5/8.7	36	13.41	1,5
	1800	115/230	56H	T030	56B17F5329		\$608	F1	18.8/9.4	50	14.82	1,5
3	3600	208-230	145T	T031	145TBFR5309	*	\$684	S1	13.1/11.8	51	14.87	1

# 50 Hertz, Three Phase

## Dripproof, Rigid Base



- Features:**
- Ball bearings
  - 1.15 Service Factor
  - Nameplated 190-200-208/380-400-416 (except as noted)
  - 12 Lead delta capability
  - UL Recognized and CSA Certified

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
2	1500	220/380	145T	KG319	5K49UN8052		\$458	E6	81.5	6.4/3.7	40	14.24	
	1500	190-208/380-416	145T	H952	145TTDR5647		\$458	E6	82.5	7.2-7.3/3.6-3.65	41	12.99	F,YD,5,14
3	1500	190-208/380-416	182T	H953	182TTDR8353		\$510	E6	81.5	10.0-9.8/5.0-4.9	60	13.22	F,YD,25
5	1500	190-208/380-416	184T	H954	184TTDR9040	*	\$648	E6	82.5	16.2-15.6/8.1-7.8	80	14.72	F,YD,25
7 1/2	1500	190-208/380-416	213T	H955	213TTDW7053		\$851	E6	85.5	22.6-19.0/9.5-11.3	106	17.30	YD
10	1500	190-208/380-416	215T	H956	215TTDW7053		\$1,013	E6	88.5	31.0-29.1/15.5-14.5	135	17.30	YD
15	1500	190-208/380-416	254T	H957	254TTDX8338		\$1,341	E6	88.5	46.0-44.0/23.0-22.0	180	22.32	F,YD

# Export Only - Non EISA Compliant

## General Purpose, Three Phase, Dripproof, Rigid Base

Same features as motors listed on page 36.

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	OVER LOAD	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C-FACE KITS	
<b>1</b>	1800	200-208	143T	H601	143TTDR5327		\$263	E6	NONE	77.0	4.15-4.3	27	10.99	5,13	A436	
	1800	208-230/460	143T	E715	143TTDR5347		\$297	E2	NONE	82.5	3.3-3.1/1.55	39	12.49	5,13,68	A436	
	1800	208-230/460	143T	U417	143TTDR4052		\$423	E2	AUTO	82.5	3.3-3.1/1.55	39	12.49	5,13,68	A436	
	1800	208-230/460	143T	U418	143TTDR4051		\$440	E2	AUTO	82.5	3.3-3.1/1.55	38	12.49	VC,5,13,68	A436	
	1800	575	143T	U922	143TTDR4055		\$423	E2	AUTO	82.5	1.1	39	12.49	5,13	A436	
	1800	575	143T	E912	143TTDR5351		\$297	E2	NONE	82.5	1.1	39	12.49	5,13	A436	
	1200	230/460	145T	E728	145TTDR4076		\$389	E2	NONE	80.0	3.6/1.8	65	13.49	5,13,68	A436	
	1200	575	145T	E934	145TTDR4080		\$389	E2	NONE	80.0	1.4	47	13.49	5,13	A435	
<b>1 1/2</b>	3600	208-230/460	143T	E783	143TTDR5313		\$330	E2	NONE	82.5	4.2-4.2/21	31	10.99	5,13,68	A436	
	3600	575	143T	E798	143TTDR4006		\$330	E2	NONE	82.5	1.9	28	10.99	5,13	A436	
	1800	200-208	145T	H604	145TTDR5327		\$289	E6	NONE	80.0	5.5-5.9	29	10.99	5,13	A436	
	1800	208-230/460	145T	E716	145TTDR5630		\$324	E2	NONE	84.0	4.6-4.4/2.2	39	12.49	5,13,68	A436	
	1800	208-230/460	145T	U420	145TTDR4126		\$450	E2	AUTO	84.0	4.6-4.4/2.2	39	12.49	5,13,68	A436	
	1800	208-230/460	145T	U421	145TTDR4127		\$467	E2	AUTO	84.0	4.6-4.4/2.2	39	12.49	VC,5,13,68	A436	
	1800	575	145T	E913	145TTDR5640		\$324	E2	NONE	84.0	1.8	39	12.49	5,13	A436	
	1800	575	145T	U923	145TTDR4130		\$450	E2	AUTO	84.0	1.8	39	12.49	5,13	A436	
	1200	200	182T	H1679	182TTDW7095		\$382	E6	NONE	75.5	5.75	89	12.72	13	A666	
	1200	230/460	182T	E729	182TTDR4076		\$428	E2	NONE	84.0	4.8/2.4	75	14.22	13,25,68	N/A	
	<b>2</b>	3600	208-230/460	145T	E702	145TTDR5304		\$389	E2	NONE	84.0	5.4-5.2/2.6	29	11.49	5,13,68	A436
		3600	575	145T	U906	145TTDR4005		\$389	E2	NONE	84.0	2.2	31	10.99	5,13	A436
1800		200-208	145T	H607	145TTDR5332		\$317	E6	NONE	81.5	7.1/7.2	35	11.99	5,13	A436	
1800		208-230/460	145T	E717	145TTDR5631		\$357	E2	NONE	84.0	6.2-5.8/2.9	43	12.99	5,13,68	A436	
1800		208-230/460	145T	U423	145TTDR4132		\$485	E2	AUTO	84.0	6.2-5.8/2.9	44	12.99	5,13,68	A436	
1800		208-230/460	145T	U424	145TTDR4133		\$502	E2	AUTO	84.0	6.2-5.8/2.9	43	12.99	VC,5,13,68	A436	
1800		575	145T	E914	145TTDR5665		\$357	E2	NONE	84.0	2.3	43	12.99	5,13	A436	
1800		575	145T	U924	145TTDR4136		\$485	E2	AUTO	84.0	2.3	42	12.99	5,13	A436	
1200		230/460	184T	E730	184TTDR4076		\$549	E2	NONE	85.5	6.2/3.1	88	15.22	13,25,68	N/A	
1200		230/460	184T	E1730	184TTDW4076		\$549	E2	NONE	85.5	6.2/3.1	65	13.19	13,68	A666	
1200	230/460	184T	E1730	184TTDW4076		\$549	E2	NONE	85.5	6.2/3.1	65	13.19	13,68	A666		
<b>3</b>	3600	208-230/460	145T	E784	145TTDR5325		\$408	E2	NONE	84.0	8.4-7.6/3.8	37	11.99	5,13,68	A436	
	3600	575	145T	E932	145TTDR4105		\$408	E2	NONE	84.0	3.5	33	11.49	5,13	A436	
	1800	200-208	182T	L102	182TTDR5327		\$355	E6	NONE	84.0	9.9-9.7	50	14.27	13,25	N/A	
	1800	208-230/460	182T	E718	182TTDB4026		\$418	E2	NONE	86.5	8.8-8.2/4.1	67	13.72	13,25,68	N/A	
	1800	208-230/460	182T	U426	182TTDR4156		\$571	E2	AUTO	86.5	8.8-8.6/4.3	63	13.72	d,13,25	N/A	
	1800	208-230/460	182T	U1426	182TTDW4156		\$571	E2	AUTO	86.5	9-8.8/4.4	61	12.69	13	A666	
	1800	575	182T	E1915	182TTDW4030		\$418	E2	NONE	86.5	3.5	60	12.69	13	A666	
	1200	230/460	213T	E731	213TTDW4076		\$743	E2	NONE	86.5	8.4/4.2	104	17.30	68	A606	
	900	230/460	215T	H185	215TTDW7101		\$1,019	E6	NONE	78.5	12.2/6.1	200	17.30		A606	
<b>5</b>	3600	230/460	145T	K2004	5KE49QN8360		\$590	E2	NONE	85.5	12.4/6.2	53	13.62	5,17	A535	
	3600	208-230/460	182T	E1704	182TTDW4001		\$468	E2	NONE	85.5	14-12.4/6.2	64	13.19	13,68	A666	
	1800	200	184T	H613	184TTDR7627		\$400	E6	NONE	85.5	15.1	70	13.72	13,25	N/A	
	1800	200	184T	H1613	184TTDW7627		\$400	E6	NONE	87.5	15.2	69	13.19	13	A666	
	1800	208-230/460	184T	E719	184TTDB4026		\$454	E2	NONE	87.5	14.4-13.0/6.5	92	14.72	13,25,68	N/A	
	1800	208-230/460	184T	U428	184TTDR4166		\$647	E2	AUTO	87.5	14.0-13.0/6.5	79	15.22	13,25	N/A	
	1800	575	184T	E1916	184TTDW4030		\$454	E2	NONE	87.5	5.3	70	13.19	13	A666	
	1200	230/460	215T	E732	215TTDW4076		\$865	E2	NONE	87.5	14.0/7.0	135	18.55	13,68	A606	
	1200	575	215T	E936	215TTDW4080		\$865	E2	NONE	87.5	5.6	154	18.55	13	A606	
	900	230/460	254T	H186	254TTDX7101		\$1,408	E6	NONE	82.5	17.0/8.5	133	20.57		A612	
	<b>7 1/2</b>	3600	208-230/460	184T	E705	184TTDR4001		\$606	E2	NONE	87.5	20.0-17.6/8.8	98	15.22	13,25,68	N/A
3600		208-230/460	184T	E1705	184TTDW4001		\$606	E2	NONE	87.5	20.0-17.6/8.8	75	14.19	13,68	A666	
1800		200	213T	H616	213TTDW7028		\$574	E6	NONE	84.0	24.8	95	15.80		A606	
1800		208-230/460	213T	E720	213TTDBA4026		\$632	E2	NONE	88.5	21.4-19.6/9.8	112	17.30		A606	
1800		208-230/460	213T	U430	213TTDW4054		\$921	E2	AUTO	88.5	21.0-19.2/9.6	128	18.05	13,68	A606	
1800		575	213T	E758	213TTDW4030		\$632	E2	NONE	88.5	7.7	113	17.30	13	A606	
1800		575	213T	U926	213TTDW4071		\$921	E2	AUTO	88.5	7.7	118	17.30	13	A606	
1200		230/460	254T	E733	254TTDX4076		\$1,082	E2	NONE	88.5	21.4/10.7	147	20.57	68	A612	
900		230/460	256T	H187	256TTDX7101		\$1,790	E6	NONE	84.0	26.0/13.0	148	22.32		A612	
<b>10</b>	3600	208-230/460	213T	E706	213TTDW4001		\$787	E2	NONE	88.5	25.9-23.4/11.7	111	17.30	13	A606	
	1800	200	215T	H619	215TTDW7028		\$726	E6	NONE	87.5	30.5	102	17.30		A606	
	1800	208-230/460	215T	E721	215TTDBA4026		\$811	E2	NONE	89.5	28.6-26.4/13.2	125	17.30		A606	
	1800	575	215T	E759	215TTDW4030		\$811	E2	NONE	89.5	10.0	123	17.30	13	A606	

Continued on next page.



# Export Only - Non EISA Compliant

## General Purpose, Three Phase, Dripproof, Rigid Base

Same features as motors listed on page 36.

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	OVER LOAD	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C-FACE KITS
10	1200	230/460	256T	E734	256TTDX4076		\$1,261	E2	NONE	90.2	28.0/14.0	178	22.32		A612
	900	230/460	284T	H188	284TTDP7101		\$2,123	E6	NONE	85.5	32.0/16.0	310	23.49		A610
15	3600	200	215T	H621	215TTDW7003		\$959	E6	NONE	86.5	43.5	134	17.30		A606
	3600	208-230/460	215T	E707	215TTDW4001		\$1,210	E2	NONE	90.2	38.0-34.0/17.0	120	18.55	13,68	A606
	1800	200	254T	H622	254TTDX7028		\$952	E6	NONE	87.5	45.1	143	20.57		A612
	1800	208-230/460	254T	E722	254TTDB4026		\$1,215	E2	NONE	91.0	40.0-36.0/18.0	240	20.31	13,25,68	N/A
	1800	575	254T	E760	254TTDX4030		\$1,215	E2	NONE	91.0	15.4	184	22.32		A612
	1200	230/460	284T	E735	284TTDP4076		\$1,814	E2	NONE	90.2	39.0/19.5	328	23.49		A610
20	900	230/460	286T	H189	286TTDP7101		\$2,791	E6	NONE	86.5	45.0/22.5	341	24.99		A610
	3600	208-230/460	254T	E708	254TTDX4001		\$1,426	E2	NONE	91.0	51.1-46.2/23.1	187	22.32	68	A612
	1800	200	256T	H625	256TTDX7358		\$1,186	E6	NONE	88.5	61.0	559	22.32		A612
	1800	208-230/460	256T	E723	256TTDB4026		\$1,484	E2	NONE	91.0	54.0-47.0/23.5	278	22.05	13,25,68	N/A
	1800	575	256T	E761	256TTDX4032		\$1,484	E2	NONE	91.0	20.8	198	22.32		A612
25	1200	230/460	286T	E736	286TTDP4076		\$2,226	E2	NONE	91.0	53.0/26.5	483	24.99		A612
	3600	200	256T	H627	256TTDX7024		\$1,412	E6	NONE	89.5	70.0	360	22.32	d	A612
	3600	208-230/460	256T	E709	256TTDX4001		\$1,740	E2	NONE	91.0	63.0-58.0/29.0	591	22.32	68	A612
	1800	200	284T	H628	284TTDP7644		\$1,397	E6	NONE	88.5	76.0	340	23.49		A610
	1800	208-230/460	284T	E1724	284TTDCA4026		\$1,723	E2	NONE	92.4	67.0-62.0/31.0	150	23.50	68	A1287
	1800	230/460	284TS	E793	284TSTDP4036		\$1,723	E2	NONE	91.7	61.0/30.5	330	22.06	68	A610
	1800	575	284T	E762	284TTDP4035		\$1,723	E2	NONE	91.7	24.4	351	23.49		A610
	1200	230/460	324T	E737	324TTDP4076		\$2,640	E2	NONE	91.7	66.0/33.0	450	26.00	68	A613
	900	230/460	326T	H191	326TTDP7101		\$3,981	E6	NONE	87.5	80.0/40.0	520	27.50		A613
	30	3600	200	284TS	H631	284TSTDP7025		\$1,604	E6	NONE	88.5	84.0	320	22.06	
3600		230/460	284TS	E710	284TSTDP4001		\$2,077	E2	NONE	91.0	72.0/36.0	286	22.06	68	A610
1800		200	286T	H632	286TTDP7641		\$1,631	E6	NONE	89.5	91.0	367	24.99		A610
1800		230/460	286TS	E794	286TSTDP4038		\$2,004	E2	NONE	92.4	72.0/36.0	255	23.56	68	A610
1800		575	286T	E763	286TTDP4034		\$2,004	E2	NONE	92.4	28.8	285	24.99		A610
1200		230/460	326T	E738	326TTDP4076		\$3,020	E2	NONE	92.4	82.0/41.0	483	27.50		A613
40	3600	230/460	286TS	E711	286TSTDP4001		\$2,658	E2	NONE	91.7	94.0/47.0	360	23.56	68	A610
	1800	200	324T	H636	324TTDP7649		\$2,034	E6	NONE	89.5	122	392	26.00		A613
	1800	230/460	324T	E726	324TTDC4026		\$2,493	E2	NONE	93.0	93.0/46.5	483	26.00	68	A613
	1800	230/460	324TS	E789	324TSTDP4032		\$2,493	E2	NONE	93.0	97.0/48.5	457	24.50		A613
	1800	575	324T	E764	324TTDP4028		\$2,493	E2	NONE	93.0	39.0	474	26.00		A613
	1200	230/460	364T	E746	364TTDS4086		\$4,226	E2	NONE	93.0	105/52.5	718	28.62		A216
50	3600	230/460	324TS	E712	324TSTDP4001		\$3,158	E2	NONE	92.4	117/58.5	437	24.50	68	A613
	1800	230/460	326T	E727	326TTDC4026		\$2,906	E2	NONE	93.0	123/61.5	550	27.50	d,68	A613
	1800	208-230/460	326T	E1727	326TTDCA4026		\$2,906	E2	NONE	93.6	128-119/59.5	613	27.56	68	N/A
	1800	230/460	326TS	E791	326TSTDP4036		\$2,906	E2	NONE	93.0	123/61.5	495	26.00	68	A613
	1800	575	326T	E765	326TTDP4048		\$2,906	E2	NONE	93.0	49.0	496	27.50		A613
	1200	230/460	365T	E747	365TTDS4086		\$4,971	E2	NONE	93.0	130/65.0	743	29.62	68	A216
60	3600	230/460	326TS	E713	326TSTDP4001		\$3,591	E2	NONE	93.0	135/67.5	470	26.00	68	A613
	1800	230/460	364T	E1739	364TTDC4036		\$3,562	E2	NONE	93.6	142/71.0	797	28.62		A216
	1800	230/460	364TS	E1768	364TSTDC4026		\$3,562	E2	NONE	93.6	142/71.0	887	26.50	68	A216
	1200	230/460	404T	E748	404TTDS4086		\$5,621	E2	NONE	93.6	143/71.5	1135	32.50	68	A222
75	3600	230/460	364TS	E714	364TSTDS4001		\$4,787	E2	NONE	93.0	183/91.5	740	26.50	68	A219
	1800	230/460	365T	E1740	365TTDC4036		\$4,338	E2	NONE	94.1	176/88.0	997	29.62	68	A216
	1800	230/460	365TS	E1782	365TSTDC4026		\$4,338	E2	NONE	94.1	176/88.0	979	27.50	68	A219
	1200	230/460	405T	E749	405TTDS4086		\$7,202	E2	NONE	93.6	176/88.0	1033	34.00	68	A222
100	3600	230/460	365TS	E753	365TSTDS4001		\$6,288	E2	NONE	93.0	240/120	736	27.50	68	A219
	1800	230/460	404T	E741	404TTDS4036		\$5,532	E2	NONE	94.1	236/118	1040	32.50	68	A222
	1800	230/460	404TS	E780	404TSTDS4026		\$5,532	E2	NONE	94.1	236/118	1013	29.50	68	A225
	1200	230/460	444T	E750	444TTDS4086		\$9,122	E2	NONE	94.1	180/90.0	1450	37.75		A228
125	3600	460	404TS	E754	404TSTDS4001		\$7,381	E2	NONE	93.6	142	917	29.50	PW	A225
	1800	460	405T	E742	405TTDS4036		\$6,624	E2	NONE	94.5	147	1087	34.00	PW	A222
	1800	460	405TS	E781	405TSTDS4026		\$6,624	E2	NONE	94.5	147	1068	31.00	PW	A225
	1200	460	445T	E795	445TTDS4086		\$11,202	E2	NONE	94.5	147	1436	39.75		A228
150	3600	460	405TS	E755	405TSTDS4001		\$9,515	E2	NONE	93.6	169	1028	31.00	PW	A225
	1800	460	444T	E743	444TTDS4036		\$9,566	E2	NONE	95.0	176	1335	37.75	PW	A228
	1800	460	444TS	E792	444TSTDS4026		\$9,566	E2	NONE	95.0	176	1223	34.00	PW	A231
	1200	460	445T	E796	445TTDS4098		\$12,419	E2	NONE	94.5	180	1491	39.75	RB	A228

Blue shaded areas are Cast Iron Frames

Continued on next page.

EXPORT

# Export Only - Non EISA Compliant

## General Purpose, Three Phase, Dripproof, Rigid Base

Same features as motors listed on page 36.

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	OVER LOAD	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C-FACE KITS
200	3600	460	444TS	E756	444TSTDS4001		\$12,437	E2	NONE	94.5	225	1310	34.00	PW	A231
	1800	460	445TS	U400	445TSTDS4026		\$12,085	E2	NONE	95.0	233	1405	36.00	PW	A231
	1800	460	445T	E744	445TTDS4036		\$12,085	E2	NONE	95.0	233	1450	39.75	PW, RB	A228
	1200	460	447T	E797	447TTDN4089		\$12,791	E2	NONE	94.5	238	2151	43.25	F, 25, RB	N/A
250	1200	460	447T	H822	447TTDN7087		\$14,088	E6	NONE	94.5	300	2245	43.25	F, RB, YD, 25	N/A
350	1200	460	449T	H821	449TTDN7087		\$21,964	E6	TSTAT	95.0	412	2350	48.25	F, YD, 17, 25	N/A
450	1800	460	449TS	H815	449TSTDN7026		\$21,659	E6	TSTAT	95.4	510	2554	44.50	F, YD	A293
500	3600	460	449TS	H819	449TSTDN7003		\$26,727	E6	TSTAT	95.4	545	2515	44.50	F, YD	A293

## General Purpose, Three Phase, Dripproof, C-Face Footless

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1	1800	208-230/460	143TC	K634	5K46MN8423		\$357	E6	79.2	3.6-3.8/1.9	27	12.42	
1 1/2	1800	208-230/460	145TC	K622	5K49RN8424		\$383	E6	82.1	5.2/2.6	33	11.95	
	1200	208-230/460	145TC	C162	145TTDR5384		\$462	E6	78.5	5.45-5.4/2.7	42	12.49	68
2	3600	208-230/460	145TC	C102	145TTDR5311		\$441	E6	80.0	6.4-6.2/3.1	26	10.49	68
	1800	208-230/460	145TC	C122	145TTDR5341		\$413	E6	81.5	6.2-6.2/3.1	34	11.99	68
3	1800	208-230/460	182TC	C123	182TTDR8067		\$494	E6	81.5	9.2-9.0/4.5	67	14.28	68
	1800	208-230/460	182TC	C1123	182TTDW8067		\$494	E6	82.5	9.2-9.0/4.5	55	12.28	13,68
5	3600	208-230/460	182TC	C1104	182TTDW8204		\$615	E6	82.5	14.6-14.0/7.0	57	13.23	13,68
	1800	208-230/460	184TC	C124	184TTDR8329		\$539	E6	85.5	14.4-13.2/6.6	78	15.28	68
7 1/2	3600	208-230/460	184TC	C105	184TTDR9308		\$704	E6	87.5	19.0-17.6/8.8	83	14.70	CF, 68
	3600	208-230/460	184TC	C1105	184TTDW9308		\$704	E6	87.0	21.0-19.0/9.5	62	13.78	13,68
	1800	208-230/460	213TC	C125	213TTDW7046		\$713	E6	84.0	22.0-21.6/10.8	134	16.53	68
	1200	208-230/460	254TC	C155	254TTDX7090		\$1,146	E6	81.5	23.0-22.2/11.1	205	20.92	68
10	3600	208-230/460	213TC	C106	213TTDW7021		\$868	E6	85.5	28.0-25.0/12.5	95	16.53	68
	1800	208-230/460	215TC	C126	215TTDW7046		\$865	E6	87.5	29.0-26.4/13.2	101	18.03	68
	1200	230/460	256TC	C156	256TTDX7396		\$1,300	E6	87.5	27.6/13.8	189	22.67	68

## General Purpose, Three Phase, Dripproof, C-Face Footed (Rigid Base)

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	CT SPEED RANGE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
5	3600	208-230/460	182TC	U402	182TTDR4108		\$673	2:1	E2	86.5	13.4-12.0/6.0	84	14.46	d, 68
	3600	208-230/460	182TC	U1402	182TTDW4108		\$673	2:1	E2	86.5	14.0-12.4/6.2	65	13.20	68
7 1/2	3600	208-230/460	184TC	U1404	184TTDW4107		\$908	2:1	E2	87.5	20.0-17.6/8.8	76	14.20	13,68
15	1800	208-230/460	254TC	U436	254TTDX4065		\$1,404	2:1	E2	91.0	42.0-38.5/19.2	185	22.64	YD, 68
20	1800	208-230/460	256TC	U438	256TTDX4345		\$1,672	2:1	E2	91.0	55.0-52.0/26.0	185	22.64	A, YD, 68
25	3600	230/460	256TC	U439	256TTDX4315		\$1,928	2:1	E2	91.0	58.0/29.0	185	22.64	YD, 68
30	1800	230/460	286TSC	U442	286TSTDP4328		\$2,304	2:1	E2	92.4	72.0/36.0	354	23.56	YD, 68
40	3600	230/460	286TSC	U443	286TSTDP4310		\$2,957	2:1	E2	91.7	94.0/47.0	335	23.56	YD, 68
	1800	230/460	324TSC	U444	324TSTDP4070		\$2,923	-----	E2	93.0	97.0/48.5	401	24.50	YD, 68
50	3600	230/460	324TSC	U445	324TSTDP4016		\$3,589	-----	E2	92.4	117/58.5	420	24.50	YD, 68
	1800	230/460	326TSC	U446	326TSTDP4055		\$3,336	-----	E2	93.0	123/61.5	425	26.00	YD, 68
60	3600	230/460	326TSC	U447	326TSTDP4310		\$4,022	-----	E2	93.0	135/67.5	320	26.00	YD, 68
75	3600	230/460	364TSC	U449	364TSTDS4313		\$5,410	-----	E2	93.0	183/91.5	690	26.50	YD, 68
	1800	230/460	365TSC	U450	365TSTDS4634		\$4,961	-----	E2	94.1	179/89.5	786	27.50	YD, 68
100	3600	230/460	365TSC	U451	365TSTDS4324		\$6,911	-----	E2	93.0	240/120	746	27.50	YD, 68
	1800	230/460	404TSC	U452	404TSTDS4364		\$6,462	-----	E2	94.1	236/118	1012	29.50	YD, 68
125	3600	460	404TSC	U453	404TSTDS4308		\$8,311	-----	E2	93.6	142	949	29.50	YD, 68
150	3600	460	405TSC	U455	405TSTDS4302		\$10,445	-----	E2	93.6	169	1013	31.00	YD, 68
	1800	460	444TSC	U456	444TSTDS4056		\$10,586	-----	E2	95.0	176	1315	34.00	YD, 13, 68

Blue shaded areas are Cast Iron Frames

# Export Only - Non EISA Compliant

## General Purpose, Three Phase, Totally Enclosed, Rigid Base

Same features as motors listed on page 47 (Rolled Steel) and page 50 (Cast Iron).

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	CT SPEED RANGE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C-FACE KITS	
<b>1</b>	1800	200-208	143T	H664	143TTFR5327		\$306	E6	2:1	77.0	4.15-4.3	29	12.37		A438	
	1800	208-230/460	143T	E950	143TTFR4026		\$347	E8	10:1	82.5	3.2-3.0/1.5	33	12.87	68	A438	
	1800	575	143T	E827	143TTFR4030		\$347	E8	10:1	82.5	1.2	38	12.87		A438	
	1200	230/460	145T	E979	145TTFR4076		\$443	E8	10:1	80.0	3.3/1.65	38	13.37	68	A438	
	900	230/460	182T	L409	182TTF8101		\$707	E6	-----	72.0	4.0/2.0	83	14.81	68	A644	
<b>1 1/2</b>	3600	208-230/460	143T	E832	143TTFR4001		\$366	E8	2:1	82.5	4.4-4.0/2.0	34	12.87	68	A438	
	3600	575	143T	E834	143TTFR4005		\$366	E8	2:1	82.5	1.6	34	12.87		A438	
	1800	200	145T	E836	145TTFR4029		\$387	E8	10:1	84.0	5.1	44	14.37		A438	
	1800	200-208	145T	H665	145TTFR5328		\$339	E6	2:1	80.0	5.5-5.9	30	12.37		A438	
	1800	208-230/460	145T	E951	145TTFR4026		\$387	E8	10:1	84.0	4.6-4.4/2.2	44	14.37	68	A438	
	1800	575	145T	E838	145TTFR4038		\$387	E8	10:1	84.0	1.8	44	14.37		A438	
	1200	230/460	182T	E982	182TTFR4076		\$458	E8	10:1	85.5	5.0/2.5	106	14.97	68	A644	
	1200	230/460	182T	E1982	182TTFW4076		\$458	E8	10:1	85.5	5.4/2.7	63	13.46	13,68	A666	
	1200	230/460	182T	E823	182TTF84076		\$480	E1	10:1	85.5	5.0/2.5	90	14.81	68	A644	
	900	230/460	184T	L410	184TTF8102		\$815	E6	-----	74.0	5.8/2.9	92	15.81	68	A644	
<b>2</b>	3600	208-230/460	145T	E994	145TTFR4001		\$424	E8	2:1	84.0	5.7-5.2/2.6	35	13.37	68	A438	
	3600	575	145T	E843	145TTFR4007		\$424	E8	2:1	84.0	2.1	38	13.37		A438	
	1800	200-208	145T	H666	145TTFR5330		\$373	E6	2:1	82.5	6.8-6.8	40	13.87		A438	
	1800	208-230/460	145T	E952	145TTFR4027		\$424	E8	10:1	84.0	6.0-5.6/2.8	43	13.87	68	A438	
	1800	575	145T	E847	145TTFR4039		\$424	E8	10:1	84.0	2.3	41	13.87		A438	
	1200	230/460	184T	E995	184TTFR4076		\$502	E8	10:1	86.5	6.0/3.0	72	15.97	d,68	A644	
	1200	230/460	184T	E1995	184TTFW4076		\$502	E8	10:1	86.5	7.2/3.6	65	13.96	13,68	A666	
	1200	230/460	184T	E849	184TTF84076		\$529	E1	10:1	86.5	6.0/3.0	100	15.81	68	A644	
		900	230/460	213T	L411	213TTF8103		\$1,144	E6	-----	80.0	8.0/4.0	179	18.22	68	A206
<b>3</b>	3600	208-230/460	182T	E967	182TTFR4001		\$480	E8	2:1	85.5	8.2-7.4/3.7	69	14.97	68	A644	
	3600	208-230/460	182T	E1967	182TTFW4001		\$480	E8	2:1	85.5	8.2-7.4/3.7	62	13.46	68	A666	
	3600	230/460	145T	K2011	5KE49WN8367		\$567	E8	-----	85.5	7.6/3.8	46	14.64	5	A537	
	3600	575	182T	U1603	182TTFW4005		\$480	E8	2:1	85.5	3.0	67	14.97		A666	
	3600	208-230/460	182T	U602	182TTF84001		\$503	E1	2:1	85.5	8.6-7.4/3.7	91	14.81	68	A644	
	1800	200	182T	L633	182TTFR5327		\$416	E6	2:1	84.0	9.9	52	15.65	25	A644	
	1800	208-230/460	182T	E953	182TTFB4026		\$454	E8	10:1	87.5	8.8-8.2/4.1	96	13.96	68	A644	
	1800	208-230/460	182T	U607	182TTFC4026		\$478	E1	10:1	87.5	8.4-7.6/3.8	96	14.81	68	A644	
	1800	575	182T	U608	182TTFR4040		\$454	E8	10:1	87.5	3.4	98	14.97		A644	
	1800	575	182T	U1608	182TTFW4040		\$454	E8	10:1	87.5	3.4	61	12.96	13	A666	
	1800	575	182T	U609	182TTF84030		\$478	E1	10:1	87.5	3.4	90	14.81		A644	
	1200	230/460	213T	E980	213TTFW4076		\$667	E8	10:1	87.5	9.2/4.6	130	20.23	68	A609	
	1200	208-230/460	213T	U610	213TTFC4076		\$699	E1	10:1	88.5	9.8-9.4/4.7	165	18.19	68	A652	
	900	230/460	215T	L421	215TTF8101		\$1,490	E6	-----	81.5	11.4/5.7	151	19.72	68	A206	
<b>5</b>	3600	208-230/460	184T	E963	184TTFR4001		\$593	E8	2:1	87.5	13.4-12.4/6.2	81	15.97	68	A644	
	3600	208-230/460	184T	E1963	184TTFW4001		\$593	E8	2:1	87.5	13.4-12.2/6.1	80	14.46	13,68	A666	
	3600	208-230/460	184T	U613	184TTF84001		\$622	E1	2:1	87.5	13.0-12.4/6.2	106	15.81	68	A644	
	1800	200	184T	H668	184TTFR7727		\$484	E6	2:1	84.0	15.2	78	17.47		A644	
	1800	200	184T	H1668	184TTFW7727		\$484	E6	2:1	87.5	15.0	15	13.96	13	A666	
	1800	208-230/460	184T	E954	184TTFB4026		\$530	E8	10:1	87.5	14.2-13.0/6.5	93	14.96	68	A644	
	1800	208-230/460	184T	U618	184TTFC4026		\$556	E1	10:1	87.5	14.0-13.0/6.5	109	15.81	68	A644	
	1800	575	184T	U1619	184TTFW4040		\$530	E8	10:1	87.5	5.3	70	13.96	13	A666	
	1200	230/460	215T	E970	215TTFW4076		\$959	E8	10:1	87.5	14.0/7.0	143	21.48	68	A609	
	1200	208-230/460	215T	U621	215TTFC4076		\$1,007	E1	10:1	89.5	16.2-16.0/8.0	191	19.61	68	A652	
		900	230/460	254T	L412	254TTFPA8102		\$2,057	E6	-----	84.0	17.0/8.5	497	23.69	68	A239
	<b>7 1/2</b>	3600	230/460	213T	E972	213TTFW4001		\$775	E8	2:1	88.5	18.4/9.2	107	18.73	68	A609
3600		230/460	213T	U624	213TTF84001		\$815	E1	2:1	88.5	19.0/9.5	164	18.2	68	A206	
1800		200	213T	H669	213TTFW7028		\$695	E8	2:1	87.5	22.3	103	18.73		A609	
1800		208-230/460	213T	E955	213TTFW4026		\$760	E8	10:1	89.5	21.6-20.0/10.0	118	20.23	68	A609	
1800		208-230/460	213T	E1955	213TTFBA4026		\$760	E8	10:1	89.5	21.0-19.6/9.8	158	18.74	68	A204	
1800		208-230/460	213T	U629	213TTFC4026		\$797	E1	10:1	89.5	21.0-19.6/9.8	171	18.2	68	A206	
1200		230/460	254T	U632	254TTF14076		\$1,261	E8	10:1	89.5	22.0/11.0	182	24.75	AL,68	A1209	
1200		208-230/460	254T	U633	254TTFC4076		\$1,324	E1	10:1	89.5	21.0-20.0/10.0	262	23.19	68	A653	
		900	230/460	256T	L413	256TTFPA8102		\$2,618	E6	-----	84.0	24.0/12.0	292	25.44	68	A239

Blue shaded areas are Cast Iron Frames

EXPORT

# Export Only - Non EISA Compliant

## General Purpose, Three Phase, Totally Enclosed, Rigid Base

Same features as motors listed on page 47 (Rolled Steel) and page 50 (Cast Iron).

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	CT SPEED RANGE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C-FACE KITS
10	3600	230/460	215T	E969	215TTFW4001		\$905	E8	2:1	89.5	24.0/12.0	128	20.23	68	A609
	3600	230/460	215T	U636	215TTFS4001		\$950	E1	2:1	90.2	24.0/12.0	184	19.70	68	A206
	1800	200	215T	H670	215TTFW7028		\$864	E6	2:1	88.5	28.8	130	20.23	68	A609
	1800	208-230/460	215T	E1956	215TTFBA4026		\$920	E8	10:1	89.5	27.6-25/12.5	163	20.24	68	A204
	1800	208-230/460	215T	U639	215TTFC4026		\$966	E1	10:1	89.5	28.4-25.6/12.8	397	19.70	68	A206
	1200	230/460	256T	E973	256TTFL14076		\$1,609	E8	10:1	89.5	26.0/13.0	225	26.24	AL,68	A1209
	1200	208-230/460	256T	U642	256TTFC4076		\$1,688	E1	10:1	89.5	28.3-26.2/13.1	298	24.92	68	A653
	900	230/460	284T	L414	284TTFPA8102		\$3,102	E6	-----	84.0	31.0/15.5	333	26.26	68	A239
15	3600	230/460	215T	U670	215TTFW4007		\$1,256	E8	2:1	90.2	36.0/18.0	138	20.23	68	A609
	3600	230/460	254T	E977	254TTFL14001		\$1,256	E8	2:1	90.2	35.0/17.5	165	22.49	AL,68	A1209
	3600	230/460	254T	U644	254TTFPA4001		\$1,319	E1	2:1	90.2	36.0/18.0	248	23.69	68	A239
	1800	200	254T	H623	254TTFL17039		\$1,141	E6	2:1	88.5	44.4	169	22.49	AL	A1209
	1800	208-230/460	254T	E996	254TTFL14026		\$1,248	E8	10:1	91.0	42.0-40.0/20.0	191	22.99	AL,68	A1209
	1800	230/460	254T	U647	254TTFC4026		\$1,311	E1	10:1	91.0	38.0/19.0	308	23.69	68	A601
	1800	208-230/460	254T	U1647	254TTFCA4026		\$1,311	E1	10:1	91.7	40.0-37.0/18.5	185	23.70	68	A284
	1200	208-230/460	284T	E978	284TTFC4076		\$2,279	E1	10:1	90.2	44.7-40.4/20.2	358	26.26	68	A654
900	230/460	286T	L415	286TTFPA8102		\$4,076	E6	-----	86.5	45.0/22.5	387	28.97	68	A617	
20	3600	230/460	256T	E974	256TTFL14001		\$1,649	E8	2:1	90.2	47.0/23.5	923	24.74	AL,68	A1209
	3600	230/460	256T	U649	256TTFNA4001		\$1,732	E1	2:1	90.2	47.0/23.5	331	25.27	68	A284
	1800	200	256T	H274	256TTFL15027		\$1,442	E6	2:1	88.5	60.0	190	24.74	AL	A1209
	1800	208-230/460	256T	E965	256TTFL14026		\$1,536	E8	10:1	91.0	55.0-51.0/25.5	289	26.24	AL,68	A1209
	1800	230/460	256T	U652	256TTFC4026		\$1,613	E1	10:1	91.0	51.0/25.5	331	25.11	68	A601
	1800	208-230/460	256T	U1652	256TTFCA4026		\$1,613	E1	10:1	91.7	53.0-48.0/24.0	391	25.43	68	A284
	1200	208-230/460	286T	E968	286TTFC4076		\$2,723	E1	10:1	90.2	58.2-52.6/26.3	425	27.83	68	A654
	900	230/460	324T	L416	324TTFPA8104		\$4,912	E6	-----	87.5	64.0/32.0	531	28.97	68	A619
25	3600	230/460	284TS	E975	284TSTFPA4001		\$2,092	E1	2:1	91.0	60.0/30.0	343	24.89	68	A617
	1800	208-230/460	284T	E1961	284TTFCA4026		\$1,901	E1	10:1	93.0	68.0-60.0/30.0	478	27.83	68	A615
	1800	208-230/460	284TS	E999	284TSTFPA4036		\$1,901	E1	10:1	92.4	68.0-63.0/31.5	335	24.89	68	A617
	1200	230/460	324T	E820	324TTFPA4076		\$3,302	E1	2:1	91.7	67.0/33.5	532	28.97	68	A619
	900	230/460	326T	L417	326TTFPA8107		\$5,817	E6	-----	88.5	78.0/39.0	608	30.32	68	A619
30	3600	230/460	286TS	E964	286TSTFPA4001		\$2,306	E1	2:1	91.0	72.0/36.0	430	26.30	68	A617
	1800	208-230/460	286T	E983	286TTFC4026		\$2,308	E1	10:1	92.4	77.0-71.0/35.5	488	27.94	68	A654
	1800	208-230/460	286T	E1983	286TTFCA4026		\$2,308	E1	10:1	93.0	81.0-71.0/35.5	478	27.83	68	A615
	1800	208-230/460	286TS	E818	286TSTFPA4036		\$2,308	E1	10:1	92.4	81.0-74.0/37.0	405	26.30	68	A617
	1200	230/460	326T	E966	326TTFS4080		\$4,032	E1	2:1	91.7	76.0/38.0	710	30.37	68	A214
40	3600	230/460	324TS	E971	324TSTFPA4001		\$3,024	E1	2:1	91.7	95.0/47.5	520	27.47	68	A619
	1800	208-230/460	324T	E984	324TTFC4026		\$2,985	E1	2:1	93.0	102-92.0/46.0	599	28.82	68	A614
	1800	208-230/460	324T	E1984	324TTFCA4026		\$2,985	E1	2:1	93.6	104-94.0/47.0	750	28.90	68	A214
	1800	230/460	324TS	E816	324TSTFPA4036		\$2,985	E1	2:1	93.0	100/50.0	525	27.47	68	A619
	1200	230/460	364T	E988	364TTFS4086		\$5,155	E1	2:1	93.0	102/51.0	900	31.50	68	A395
50	3600	230/460	326TS	E976	326TSTFPA4001		\$4,193	E1	2:1	92.4	115/57.5	542	28.82	68	A619
	1800	230/460	326T	E962	326TTFC4026		\$3,843	E1	2:1	93.0	117/58.5	653	30.32	68	A614
	1800	208-230/460	326T	E1962	326TTFCA4026		\$3,843	E1	2:1	93.6	131-119/59.5	750	30.40	68	A214
	1800	230/460	326TS	E801	326TSTFPA4036		\$3,843	E1	2:1	93.0	122/61.0	600	28.97	68	A619
	1200	230/460	365T	E993	365TTFS4086		\$6,021	E1	2:1	93.0	130/65.0	994	32.50	68	A395
60	3600	230/460	364TS	E960	364TSTFS4001		\$6,000	E1	2:1	93.0	141/70.5	910	29.38	68,89	A396
	1800	230/460	364T	E985	364TTFC4036		\$5,639	E1	2:1	93.6	137/68.5	991	31.50	68	A217
	1800	230/460	364TS	E802	364TSTFS4026		\$5,639	E1	2:1	93.6	144/72.0	942	29.38	68	A396
	1200	230/460	404T	E803	404TTFS4086		\$6,957	E1	2:1	93.6	149/74.5	1219	35.62	68	A223
75	3600	230/460	365TS	E991	365TSTFS4001		\$7,143	E1	2:1	93.0	174/87.0	995	30.38	68,89	A396
	1800	230/460	365T	E957	365TTFS4036		\$7,207	E1	2:1	94.1	178/89.0	1025	32.50	68	A395
	1800	230/460	365TS	E804	365TSTFS4026		\$7,207	E1	2:1	94.1	178/89.0	1036	30.38	68	A396
	1800	575	365T	E805	365TTFS4040		\$7,207	E1	2:1	94.1	71.0	1053	32.50	68	A395
100	3600	230/460	405TS	E807	405TSTFS4001		\$9,638	E1	2:1	94.1	220/110	1239	34.12	68,89	A226
	1800	230/460	405T	E959	405TTFS4036		\$8,693	E1	2:1	94.5	228/114	1268	37.12	68	A223
	1800	230/460	405TS	E808	405TSTFS4026		\$8,693	E1	2:1	94.5	228/114	1273	34.12	68	A226
	1800	575	405T	U661	405TTFS4040		\$8,693	E1	2:1	94.5	91.0	1267	37.12	68	A223
	1200	230/460	444T	E809	444TTFS4086		\$11,766	E1	2:1	94.1	238/119	1697	41.25	68	A229

EXPORT

Blue shaded areas are Cast Iron Frames

Continued on next page.



# Export Only - Non EISA Compliant

## General Purpose, Three Phase, Totally Enclosed, Rigid Base

Same features as motors listed on page 50

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	CT SPEED RANGE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C-FACE KITS
125	3600	460	444TS	E992	444TSTFS4001		\$13,436	E1	2:1	94.5	137	1719	37.50	PW	A232
	1800	460	444T	E987	444TTFS4036		\$11,214	E1	2:1	94.5	142	1786	41.25	PW,68	A229
	1800	460	444TS	E810	444TSTFS4026		\$11,214	E1	2:1	94.5	142	1787	37.50		A232
	1800	575	444T	U662	444TTFS4040		\$11,214	E1	2:1	94.5	114	1826	41.25		A229
	1200	460	445T	U663	445TTFN4086		\$14,316	E1	2:1	94.5	152	2082	43.19		A620
150	3600	460	445TS	E981	445TSTFN4001		\$16,093	E1	2:1	95.4	167	2070	39.44	68	A621
	1800	460	445T	E986	445TTFN4036		\$13,638	E1	2:1	95.0	172	2113	43.19	68	A620
	1800	460	445TS	E811	445TSTFN4026		\$13,638	E1	2:1	95.0	172	2070	39.44		A621
	1200	460	445T	E958	445TTFN4087		\$15,769	E1	2:1	95.0	182	2309	43.19	H,RB	N/A
200	3600	460	445TS	E812	445TSTFN4005		\$20,109	E1	2:1	95.0	222	2262	39.44	H,68	A621
	1800	460	445T	E989	445TTFN4038		\$16,570	E1	2:1	95.0	225	2310	43.19	RB,68	N/A
	1800	460	445TS	E813	445TSTFN4028		\$16,570	E1	2:1	95.0	225	2215	39.44		A621
	1800	575	445T	U667	445TTFN4049		\$16,570	E1	2:1	95.0	180	2311	43.19		A620
	1800	460	445T	U669	445TTFN4059		\$16,570	E1	2:1	95.0	225	2287	43.19	68	A620
	1200	460	447/9T	E814	449TTFS4088		\$17,945	E1	2:1	95.0	243	2701	51.69	H,RB,YD,68	N/A
250	3600	460	445TS	L450	445TSTFN8007		\$23,234	E9	-----	94.5	275	2266	39.44	H,17,68	A621
	3600	460	447/9TS	L451	449TSTFS8003		\$24,976	E9	-----	95.0	280	2079	47.88	H,YD,68	A624
300	1800	460	445T	L460	445TTFN8042		\$21,276	E9	-----	95.0	340	2410	43.19	H,RB,YD,17	N/A
400	1800	460	447/9T	L469	449TTFS8039		\$25,918	E9	-----	95.0	460	3088	51.69	H,RB,17	N/A

## General Purpose, Three Phase, Totally Enclosed, C-Face Footless

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	CT SPEED RANGE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1	1800	208-230/460	143TC	C220	143TTFR5329		\$348	2:1	E6	77.0	3.5-3.6/1.8	27	12.37	68
	1800	575	143TC	C230	143TTFR5333		\$348	2:1	E6	77.0	1.5	26	12.37	68
	1200	208-230/460	145TC	C250	145TTFR5378		\$236	2:1	E6	77.0	3.95-4.0/2.0	32	12.87	68
1 1/2	3600	208-230/460	143TC	C201	143TTFR5302		\$360	2:1	E6	80.0	4.7-4.6/2.3	35	11.87	68
	1800	208-230/460	145TC	C221	145TTFR5332		\$405	2:1	E6	80.0	4.8-4.8/2.4	29	12.37	68
	1800	575	145TC	C231	145TTFR5340		\$405	2:1	E6	80.0	1.9	29	12.37	68
	1200	230/460	182TC	C1251	182TTFW7094		\$512	2:1	E6	75.5	5.0/2.5	89	17.93	F,68
2	3600	208-230/460	145TC	C202	145TTFR5302		\$419	2:1	E6	80.0	6.0-6.0/3.0	29	12.37	68
	1800	208-230/460	145TC	K330	5K49ZN8079		\$433	-----	E6	83.6	6.2-5.8/2.9	49	14.40	24,68
	1800	575	145TC	C232	145TTFR5341		\$433	2:1	E6	82.5	2.3	41	13.87	68
	1200	230/460	184TC	C1252	184TTFW7082		\$576	2:1	E6	80.0	6.7/3.35	89	15.69	F,24,68
3	3600	208-230/460	145TC	C236	145TTFR5307		\$451	2:1	E6	84.0	8.4-7.6/3.8	39	13.37	68
	3600	208-230/460	182TC	C203	182TTFR7325		\$535	2:1	E6	82.5	8.6-7.8/3.9	72	15.69	d,F,24,68
	3600	208-230/460	182TC	C1203	182TTFW7325		\$535	2:1	E6	82.5	8.6-7.8/3.9	54	12.97	
	1800	208-230/460	182TC	C223	182TTFR7634		\$513	2:1	E6	82.5	9.0-8.0/4.0	73	15.69	d,F,24,68
	1800	208-230/460	182TC	C1223	182TTFW7634		\$513	2:1	E6	82.5	10.4-9.8/4.9	57	12.97	
	1200	230/460	213TC	C253	213TTFW7096		\$731	2:1	E6	81.5	9.6/4.8	108	19.46	F,24,68
5	1800	208-230/460	184TC	C224	184TTFR8641		\$576	2:1	E6	86.5	13.6-13.0/6.5	92	16.69	F,20,24
	1200	208-230/460	215TC	C254	215TTFW7096		\$1,019	2:1	E6	84.0	16.0-14.8/7.4	169	20.96	20,24
7 1/2	3600	208-230/460	184TC	C238	184TTFR8617		\$735	2:1	E6	85.5	20.0-19.0/9.5	89	16.69	F,24
	3600	208-230/460	184TC	C1238	184TTFW8617		\$735	2:1	E6	86.5	19.9-18.4/9.2	89	14.97	13,68
	3600	208-230/460	213TC	C205	213TTFW7007		\$811	2:1	E6	84.0	21.0-19.2/9.6	75	19.46	F,20,24
	1800	208-230/460	213TC	C225	213TTFW7046		\$712	2:1	E6	87.5	22.0-19.4/9.7	103	19.46	F,20,24
	1200	230/460	254TC	C255	254TTFL5082		\$1,377	-----	E6	82.5	20.8/10.4	148	23.24	AL,F,24
10	3600	208-230/460	215TC	C206	215TTFW7302		\$971	2:1	E6	86.5	27.0-24.0/12.0	136	20.96	F,20,24
	1800	208-230/460	215TC	C226	215TTFW7046		\$935	2:1	E6	88.5	28.0-25.0/12.5	129	20.96	F,20,24
	1200	230/460	256TC	C256	256TTFPA7694		\$1,702	-----	E6	84.0	27.6/13.8	355	25.94	F,24
15	3600	208-230/460	215TC	C237	215TTFW7021		\$1,234	2:1	E6	88.5	40.0-37.0/18.5	149	20.96	F,20,24
	3600	230/460	254TC	C207	254TTFL5020		\$1,342	-----	E6	85.5	36.0/18.0	196	23.24	AL,F,24
	1800	208-230/460	254TC	C227	254TTFL5040		\$1,329	-----	E6	88.5	43.0-38.5/19.3	179	23.24	AL,F,24

Blue shaded areas are Cast Iron Frames



# Export Only - Non EISA Compliant

## General Purpose, Three Phase, Totally Enclosed, C-Face Footed (Rigid and Removable Base)

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	"FOUR IN-ONE"	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	CT SPEED RANGE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1	1800	230/460	143TC		U701	143TTFR4032		\$408	10:1	E8	82.5	3.0/1.5	33	12.87	13,68
	1800	208-230/460	143TC		K2039	5KE49UN8429		\$441	---	E8	77.0	3.4-3.2/1.6	40	12.12	24
	1200	208-230/460	145TC		K2036	5KE49UN8392		\$536	---	E8	75.4	3.9-4.0/2.0	42	13.84	24
1 1/2	1800	230/460	145TC		U704	145TTFR4058		\$415	10:1	E8	84.0	4.4/2.2	44	14.37	68
2	3600	230/460	145TC		U735	145TTFR4009		\$478	2:1	E8	84.0	5.2/2.6	39	13.37	68
	1800	230/460	145TC		U707	145TTFR4040		\$445	10:1	E8	84.0	5.6/2.8	42	13.87	68
3	3600	230/460	182TC		U1737	182TTFW4007		\$686	2:1	E8	85.5	7.4/3.7	77	15.69	13,24,68
	3600	208-230/460	182TC	◆	C381	182TTFR4320		\$756	10:1	E8	85.5	8.2-7.4/3.7	76	15.50	d,6,24,68
	3600	208-230/460	182TC	◆	C1381	182TTFW4320		\$756	10:1	E8	85.5	8.2-7.4/3.7	64	15.50	6,13,24,68
	1800	208-230/460	182TC	◆	C382	182TTFR4340		\$676	10:1	E8	87.5	9.0-8.4/4.2	86	15.50	d,6,24,68
	1800	208-230/460	182TC	◆	C1382	182TTFW4340		\$676	10:1	E8	87.5	9.0-8.4/4.2	64	15.50	6,13,24,68
	1800	208-230/460	182TC		U1710	182TTFW4042		\$614	10:1	E8	87.5	9.0-8.4/4.2	79	15.69	13,24,68
	1200	208-230/460	213TC	◆	C384	213TTFW4380		\$945	10:1	E8	87.5	9.6-9.2/4.6	114	20.97	6,24,68
5	3600	230/460	184TC		U1739	184TTFW4007		\$731	2:1	E8	87.5	12.4/6.2	90	16.69	13,24,68
	3600	208-230/460	184TC	◆	C385	184TTFR4320		\$807	10:1	E8	87.5	13.5-12.5/6.2	81	16.50	d,6,24,68
	3600	208-230/460	184TC	◆	C1385	184TTFW4320		\$807	10:1	E8	87.5	13.4-12.2/6.1	81	14.47	13,24,68
	1800	230/460	184TC	◆	C386	184TTFR4340		\$712	10:1	E8	87.5	13.0/6.5	86	16.50	d,6,24,68
	1800	208-230/460	184TC		U1713	184TTFW4044		\$668	10:1	E8	87.5	15.9-14.8/7.4	87	16.69	13,24,68
	1200	208-230/460	215TC	◆	C388	215TTFW4380		\$1,127	10:1	E8	87.5	15.0-14.0/7.0	143	22.22	6,13,24,68
7 1/2	3600	230/460	213TC		U741	213TTFW4020		\$958	2:1	E8	89.5	18.4/9.2	128	19.47	24,68
	3600	208-230/460	213TC	◆	C389	213TTFW4320		\$1,048	10:1	E8	89.5	20.0-18.4/9.2	114	20.97	6,24,68
	1800	208-230/460	213TC		U716	213TTFW4045		\$865	10:1	E8	89.5	21.6-20.0/10.0	117	19.47	24,68
	1800	208-230/460	213TC	◆	C390	213TTFW4340		\$945	10:1	E8	89.5	21.6-20.0/10.0	144	20.97	6,24,68
10	3600	230/460	215TC		U744	215TTFW4020		\$1,012	2:1	E8	89.5	24.0/12.0	135	20.97	24,68
	3600	208-230/460	215TC	◆	C392	215TTFW4320		\$1,090	10:1	E8	89.5	27.0-24.0/12.0	128	20.97	6,24,68
	1200	230/460	256TC		U757	256TTFL4079		\$1,800	10:1	E8	89.5	26.0/13.0	220	26.99	AL,24,68
15	3600	230/460	254TC		U746	254TTFL4004		\$1,448	2:1	E8	91.0	35.0/17.5	223	23.24	AL,24,68
	1800	208-230/460	254TC		U722	254TTFL4032		\$1,436	10:1	E8	91.0	42.0-40.0/20.0	188	23.74	AL,24,68
20	3600	230/460	256TC		U748	256TTFL4004		\$1,843	2:1	E8	90.2	47.0/23.5	189	24.99	AL,24,68
	3600	230/460	256TC		U815	256TTFNA14004		\$1,933	2:1	E8	90.2	47.0/23.5	325	25.76	24,68
	1800	208-230/460	256TC		U724	256TTFL4032		\$1,724	10:1	E8	91.0	55.0-51.0/25.5	235	26.99	AL,24,68
25	3600	230/460	284TSC		U749	284TSTFPA14003		\$2,397	2:1	E8	91.0	60.0/30.0	385	24.76	24,68
	1800	208-230/460	284TC		U725	284TTFPA4027		\$2,200	10:1	E8	92.4	67.0-62.0/31.0	352	26.27	24,68
30	3600	230/460	286TSC		U750	286TSTFPA14002		\$2,610	2:1	E8	91.0	72.0/36.0	392	26.26	24,68
	1800	208-230/460	286TC		U726	286TTFPA4028		\$2,467	10:1	E8	92.4	81.0-74.0/37.0	437	27.77	24,68
40	3600	230/460	324TSC		U830	324TSTFPA14003		\$3,455	2:1	E8	91.7	95.0/47.5	487	27.47	24,68
	1800	230/460	324TC		U727	324TTFPA4028		\$3,415	2:1	E8	92.4	100/50.0	544	28.97	24,68
50	3600	230/460	326TSC		U834	326TSTFPA14003		\$4,623	2:1	E8	92.4	115/57.5	543	28.97	24,68
	1800	230/460	326TC		U728	326TTFPA4028		\$4,273	2:1	E8	93.0	122/61.0	600	30.47	24,68
60	3600	230/460	364TSC		U838	364TSTFS14003		\$6,624	2:1	E8	93.0	141/70.5	930	29.38	24,68
	1800	230/460	364TC		U729	364TTFS4038		\$6,262	2:1	E8	93.6	144/72.0	984	31.50	24
75	3600	230/460	365TSC		U842	365TSTFS14002		\$7,766	2:1	E8	93.0	174/87.0	1032	30.38	24,68
	1800	230/460	365TC		U730	365TTFS4038		\$7,830	2:1	E8	94.1	178/89.0	1059	32.50	24
100	3600	230/460	405TSC		U845	405TSTFS14002		\$10,568	2:1	E8	94.1	220/110	1283	34.12	24,68
	1800	230/460	405TC		U731	405TTFS4038		\$8,779	2:1	E8	94.5	228/114	1297	37.12	24

Blue shaded areas are Cast Iron Frames

EXPORT

# Export Only - Non EISA Compliant

## Blue Chip® Severe Duty / Cooling Tower: Single-Speed

Same features as motors listed on page 68.

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	CT SPEED RANGE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C-FACE KITS
5	1800	230/460	184T	U868	184TTFS4555		\$921	10:1	S3	87.5	13.0/6.5	116	16.19		
7 1/2	1800	230/460	213T	U869	213TTFS4550		\$1,163	10:1	S3	89.5	20.0/10.0	248	18.22		
10	1800	230/460	215T	U870	215TTFS4546		\$1,332	10:1	S3	91.0	26.0/13.0	243	19.72		
15	1800	230/460	254T	U871	254TTFNA4549		\$1,719	10:1	S3	91.0	39.0/19.5	317	23.52		
20	1800	230/460	256T	U872	256TTFNA4532		\$2,021	10:1	S3	91.0	50.0/25.0	341	25.27		
25	1800	230/460	284T	U873	284TTFPA4545		\$2,396	10:1	S3	92.4	62.0/31.0	400	26.27		
30	1800	230/460	286T	U874	286TTFPA4544		\$2,803	10:1	S3	92.4	74.0/37.0	457	27.77		
40	1800	230/460	324T	U875	324TTFPA4540		\$3,634	2:1	S3	93.0	100/50.0	515	28.97		
50	1800	230/460	326T	U876	326TTFPA4550		\$4,491	2:1	S3	93.0	122/61.0	585	30.47		
60	1800	230/460	364T	U877	364TTFS4550		\$6,404	2:1	S3	93.6	144/72.0	980	31.50		
75	1800	230/460	365T	U878	365TTFS4560		\$7,973	2:1	S3	94.1	178/89.0	1063	32.50		
100	1800	230/460	405T	U879	405TTFS4560		\$9,873	2:1	S3	94.5	228/114	1325	37.12		
125	1800	460	444T	U880	444TTFS4546		\$12,710	2:1	S3	94.5	142	1809	41.25		
150	1800	460	445T	U881	445TTFN4826		\$15,135	2:1	S3	95.0	172	2130	43.26		
200	1800	460	445T	U882	445TTFN4574		\$18,066	2:1	S3	95.0	225	2324	43.26		

## XRI®, Three Phase, Totally Enclosed, Rigid Base

Same features as motors listed on page 58.

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	CT SPEED RANGE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C-FACE KITS
40	1200	230/460	364T	E241	364TTFS6086		\$6,996	20:1@	E9	93.6	100/50.0	955	31.50	NP	A395
50	1200	230/460	365T	E242	365TTFS6086		\$8,035	20:1@	E9	93.6	123/61.5	1026	32.50	NP	A395

## XRI® Severe Duty, Three Phase, Totally Enclosed, Rigid Base

Same features as motors listed on page 69.

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	CT SPEED RANGE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C-FACE KITS
40	1200	460	364T	E642	364TTFS6586		\$7,136	20:1@	E9	93.6	50.0	953	31.50	NP	A395
	1200	575	364T	E401	364TTFS6590		\$7,136	20:1@	E9	93.6	40.0	906	31.50	NP	A395
50	1200	460	365T	E643	365TTFS6586		\$8,195	20:1@	E9	93.6	61.5	1038	32.50	NP	A395
	1200	575	365T	E402	365TTFS6590		\$8,195	20:1@	E9	93.6	49.0	968	32.50	NP	A395
100	1200	460	444T	E646	444TTFS6586		\$15,448	20:1@	E9	94.5	119	1746	41.25	NP	A229
	1200	575	444T	E405	444TTFS6590		\$15,448	20:1@	E9	94.5	94.5	1745	41.25	NP	A229

## XRI® IEEE-841, Three Phase, Totally Enclosed, Rigid Base

Same features as motors listed on page 82.

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	CT SPEED RANGE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES	C-FACE KITS
40	1200	460	364T	W575	364THFS9086		\$8,207	20:1@	E9	93.6	50.0	972	31.50	NP	A188
50	1200	460	365T	W582	365THFS9086		\$9,424	20:1@	E9	93.6	61.5	1030	32.50	NP	A188
75	1800	460	365TS	W593	365TSHFS9026		\$10,231	20:1@	E9	95.4	86.0	959	30.38		A189

Blue shaded areas are Cast Iron Frames

# Export Only - Non EISA Compliant

## Hazardous Duty™ Division 1 Explosion Proof, Class I Only, Groups C (as noted), D, Rigid Base

Same features as motors listed on page 77.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1</b>	1800	208-230/460	143T	U930	143TTGN1026		\$578	E7	82.5	3.0-3.0/1.5	62	13.48	25,80
	1200	208-230/460	145T	U931	145TTGN1076		\$679	E7	80.0	3.6-3.4/1.7	68	14.73	25,80
<b>1 1/2</b>	1800	208-230/460	145T	U933	145TTGN1026		\$608	E7	84.0	4.6-4.4/2.2	74	14.73	25,80
	1200	230/460	182T	U934	182TTGS1076		\$734	E7	85.5	5.0/2.5	142	17.44	25
<b>2</b>	3600	230/460	145T	U935	145TTGN1001		\$675	E7	84.0	5.2/2.6	63	13.48	25,80
	1800	208-230/460	145T	U936	145TTGN1027		\$650	E7	85.5	6.2-6.0/3.0	77	14.73	25,80
	1200	230/460	184T	U937	184TTGS1076		\$850	E7	86.5	6.0/3.0	139	17.44	25
<b>3</b>	3600	230/460	182T	U938	182TTGS1001		\$761	E7	85.5	7.4/3.7	89	16.19	25
	1800	208-230/460	182T	U939	182TTGS1026		\$762	E7	87.5	9.0-8.4/4.2	139	16.19	25
	1200	230/460	213T	U940	213TTGS1076		\$1,092	E7	87.5	9.0/4.5	236	19.66	25
<b>5</b>	3600	230/460	184T	U941	184TTGS1001		\$958	E7	87.5	12.4/6.2	149	17.44	25
	1800	230/460	184T	U942	184TTGS1026		\$848	E7	86.5	13.0/6.5	143	17.44	25
	1200	208-230/460	215T	U943	215TTGS1076		\$1,448	E7	87.5	15.2-14.0/7.0	224	20.91	25
<b>7 1/2</b>	3600	230/460	213T	U944	213TTGS1001		\$1,227	E7	88.5	19.0/9.5	243	20.91	25
	1800	230/460	213T	U945	213TTGS1026		\$1,164	E7	89.5	20.0/10.0	230	19.66	25
	1200	230/460	254T	U946	254TTGN1076		\$1,935	E7	89.5	20.0/10.0	386	23.52	
<b>10</b>	3600	230/460	215T	U947	215TTGS1001		\$1,411	E7	90.2	24.0/12.0	240	20.91	25
	1800	230/460	215T	U948	215TTGS1026		\$1,382	E7	91.0	26.0/13.0	220	20.91	25
	1200	208-230/460	256T	U949	256TTGN1076		\$2,369	E7	89.5	29.0-26.0/13.0	238	25.27	
<b>15</b>	3600	208-230/460	254T	U950	254TTGP1001		\$1,890	E7	90.2	39.0-36.0/18.0	307	23.69	
	1800	230/460	254T	U951	254TTGN1026		\$1,814	E7	91.0	39.0/19.5	361	23.52	
	1200	230/460	284T	U952	284TTGN1076		\$3,259	E7	90.2	40.0/20.0	487	26.34	
<b>20</b>	3600	230/460	256T	U953	256TTGN1001		\$2,423	E7	90.2	47.0/23.5	365	25.27	
	1800	230/460	256T	U954	256TTGN1026		\$2,203	E7	91.0	50.0/25.0	403	25.27	
	1200	230/460	286T	U955	286TTGN1076		\$3,844	E7	90.2	54.0/27.0	520	27.84	
<b>25</b>	3600	230/460	284TS	U956	284TSTGP1001		\$3,081	E7	91.0	60.0/30.0	520	24.89	
	1800	230/460	284T	U957	284TTGP1026		\$2,753	E7	92.4	62.0/31.0	447	26.26	
	1200	230/460	324T	U958	324TTGP1076		\$4,807	E7	91.7	67.0/33.5	550	28.97	
<b>30</b>	3600	230/460	286TS	U959	286TSTGP1001		\$3,341	E7	91.0	72.0/36.0	420	26.39	
	1800	230/460	286T	U960	286TTGP1026		\$3,233	E7	92.4	74.0/37.0	484	27.76	
	1200	230/460	326T	U961	326TTGS1076		\$5,692	E7	91.7	76.0/38.0	750	30.47	
<b>40</b>	3600	230/460	324TS	U962	324TSTGP1001		\$4,469	E7	91.7	95.0/47.5	561	27.47	
	1200	230/460	364T	U964	364TTGS1086		\$7,508	E7	93.0	102/51.0	900	31.50	
<b>50</b>	3600	230/460	326TS	U965	326TSTGP1001		\$5,889	E7	92.4	115/57.5	586	28.97	
	1800	230/460	326T	U966	326TTGP1026		\$5,279	E7	93.0	122/61.0	632	30.47	
	1200	230/460	365T	U967	365TTGS1086		\$8,581	E7	93.0	131/65.5	1041	32.50	
<b>60</b>	3600	230/460	364TS	U968	364TSTGS1001		\$8,556	E7	93.0	141/71.0	964	29.38	
	1800	230/460	364T	U969	364TTGS1036		\$7,839	E7	93.6	144/72.0	1045	31.50	
	1200	230/460	404T	U970	404TTGS1086		\$10,121	E7	93.6	149/74.5	1308	35.62	
<b>75</b>	3600	230/460	365TS	U971	365TSTGS1001		\$9,976	E7	93.0	174/87.0	1082	30.38	
	1800	230/460	365T	U972	365TTGS1036		\$9,728	E7	94.1	178/89.0	1131	31.50	
	1200	230/460	405T	U973	405TTGS1086		\$11,865	E7	93.6	185/92.5	1384	37.12	
<b>100</b>	3600	230/460	405TS	U974	405TSTGS1001		\$13,451	E7	94.1	224/112	1100	34.12	
	1800	230/460	405T	U975	405TTGS1036		\$11,872	E7	94.5	228/114	1351	37.12	
	1200	230/460	444T	U976	444TTGS11077		\$16,654	E7	94.1	238/119	1849	41.25	
<b>125</b>	3600	460	444TS	U977	444TSTGS1001		\$18,727	E7	94.5	137	1772	37.50	
	1800	460	444T	U978	444TTGS1036		\$15,435	E7	94.5	142	1840	41.25	
	1200	460	445T	U979	445TTGN1086		\$19,823	E7	94.5	152	2204	43.19	
<b>150</b>	3600	460	445TS	U980	445TSTGN1001		\$22,027	E7	95.4	167	2188	39.44	
	1800	460	445T	U981	445TTGN1036		\$18,357	E7	95.0	172	2217	43.19	
	1200	460	445T	U982	445TTGN1087		\$21,624	E7	95.0	182	2390	43.19	RB
<b>200</b>	1800	460	445T	U984	445TTGN1038		\$21,136	E7	95.0	225	2394	43.19	RB
	1200	460	449T	U985	449TTGS1088		\$26,117	E7	95.0	243	2910	51.69	RB
<b>250</b>	3600	460	449TS	H580	449TSTGS8003		\$29,799	E7	95.0	280	2627	47.94	
	1800	460	449T	H581	449TTGS8038		\$24,518	E7	95.0	290	2818	51.69	RB

Blue shaded areas are Cast Iron Frames

EXPORT

# Export Only - Non EISA Compliant

## Hazardous Duty™ Division 1 Explosion Proof Class I and II, Groups C (as noted), D, F & G

### Blue Chip® Severe Duty, EAct Efficiency, Three Phase, Rigid Base

Same features as motors listed on page 81.

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	CT SPEED RANGE	GROUP C	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1</b>	1800	208-230/460	143T	K2201	5KE49PN4579X		\$869	E7	---	Y	82.5	3.2-3/1.5	36	14.5	
	1800	208-230/460	143T	U986	143TTGN4032		\$833	E7	10:1	Y	82.5	3.0-3.0/1.5	62	13.48	25,80,91
	1800	208-230/460	143T	U001	143TTGN4026		\$691	E7	10:1	N	82.5	3.0-3.0/1.5	62	13.48	25,80,91
	1800	575	143T	U020	143TTGN4030		\$691	E7	10:1	N	82.5	1.2	62	13.48	25,80
	1200	208-230/460	145T	K2202	5KE49TN8356V		\$1,052	E7	---	Y	80.0	3.6-3.4/1.7	42	15.5	TS
	1200	208-230/460	145T	U039	145TTGN4076		\$833	E7	10:1	N	80.0	3.6-3.4/1.7	69	14.73	25,80,91
<b>1 1/2</b>	3600	230/460	143T	K2203	5KE49PN8357V		\$805	E7	---	Y	82.5	4.0/2.0	38	14.5	TS,18
	3600	208-230/460	143T	U058	143TTGN4001		\$741	E7	10:1	N	82.5	4.4-4.0/2.0	64	13.48	25,80,91
	1800	208-230/460	145T	U987	145TTGN4051		\$887	E7	10:1	Y	84.0	4.6-4.4/2.2	75	14.73	25,80,91
	1800	208-230/460	145T	U002	145TTGN4026		\$737	E7	10:1	N	84.0	4.6-4.4/2.2	77	14.73	25,80,91
	1800	575	145T	U021	145TTGN4035		\$737	E7	10:1	N	84.0	1.8	74	14.73	25,80
	1200	208-230/460	182T	U040	182TTGS4076		\$869	E7	10:1	N	85.5	5.0-5.0/2.5	134	17.44	25,91
<b>2</b>	3600	208-230/460	145T	K2205	5KE49SN8355V		\$1,207	E7	---	Y	84.0	5.6-5.2/2.6	47	15.0	TS,18,68
	3600	208-230/460	145T	U059	145TTGN4001		\$869	E7	10:1	N	84.0	5.6-5.2/2.6	64	13.48	25,80,91
	1800	208-230/460	145T	K2206	5KE49QN8350V		\$1,006	E7	---	Y	85.5	6.5-6.2/2.8	51	16.0	TS,18
	1800	208-230/460	145T	U003	145TTGN4027		\$780	E7	10:1	N	85.5	6.2-6.0/3.0	78	14.73	25,80,91
	1800	575	145T	U022	145TTGN4040		\$780	E7	10:1	N	85.5	2.4	78	14.73	25,80
	1800	208-230/460	145T	U988	145TTGN4050		\$940	E7	10:1	Y	84.0	6.0-5.6/2.8	75	14.73	25,80,91
<b>3</b>	1200	208-230/460	184T	U041	184TTGS4076		\$983	E7	10:1	N	86.5	6.4-6.0/3.0	140	17.44	25,91
	3600	208-230/460	182T	U060	182TTGS4001		\$899	E7	10:1	N	85.5	8.4-7.4/3.7	128	16.19	25,91
	1800	208-230/460	182T	U004	182TTGS4026		\$890	E7	10:1	N	87.5	9.0-8.4/4.2	130	16.19	25,91
	1800	575	182T	U023	182TTGS4030		\$890	E7	10:1	N	87.5	3.4	128	16.19	25
	1800	208-230/460	182T	U989	182TTGS4041		\$1,071	E7	10:1	Y	87.5	9.0-8.4/4.2	146	17.44	25,91
	1200	230/460	213T	U042	213TTGS4076		\$1,259	E7	10:1	N	87.5	9.0/4.5	222	19.66	25
<b>5</b>	3600	208-230/460	184T	U061	184TTGS4001		\$1,092	E7	10:1	N	87.5	13.0-12.4/6.2	146	17.44	25,91
	1800	208-230/460	184T	U005	184TTGS4026		\$976	E7	10:1	N	86.5	14.0-13.0/6.5	141	17.44	25,91
	1800	575	184T	U024	184TTGS4030		\$976	E7	10:1	N	86.5	5.2	142	17.44	25
	1800	208-230/460	184T	U990	184TTGS4044		\$1,175	E7	10:1	Y	86.5	14.0-13.0/6.5	136	17.44	25,91
	1200	230/460	215T	U043	215TTGS4076		\$1,614	E7	10:1	N	87.5	14.0/7.0	187	20.91	25
<b>7 1/2</b>	3600	208-230/460	213T	U062	213TTGS4001		\$1,392	E7	10:1	N	88.5	20.0-19.0/9.5	233	20.91	25,91
	1800	208-230/460	213T	U006	213TTGS4026		\$1,321	E7	10:1	N	89.5	22.0-20.0/10.0	225	19.66	25,91
	1800	208-230/460	213T	U991	213TTGS4040		\$1,590	E7	10:1	Y	89.5	22.0-20.0/10.0	228	20.91	25,91
	1200	230/460	254T	U044	254TTGN4076		\$2,105	E7	10:1	Y	89.5	20.0/10.0	390	23.52	
<b>10</b>	3600	230/460	215T	U063	215TTGS4001		\$1,580	E7	10:1	Y	90.2	24.0/12.0	241	20.91	25
	1800	208-230/460	215T	U007	215TTGS4026		\$1,540	E7	2:1	N	89.5	28.1-25.0/12.5	239	20.91	25,91
	1800	230/460	215T	U992	215TTGS4039		\$1,854	E7	2:1	Y	89.5	25.0/12.5	230	20.91	25
	1200	230/460	256T	U045	256TTGN4076		\$2,539	E7	10:1	Y	89.5	26.0/13.0	412	25.27	
<b>15</b>	3600	230/460	254T	U064	254TTGP4001		\$2,058	E7	10:1	Y	90.2	36.0/18.0	627	23.69	
	1800	208-230/460	254T	U008	254TTGN4026		\$1,974	E7	10:1	Y	91.0	42.0-39.0/19.5	373	23.52	91
	1800	575	254T	U027	254TTGN4030		\$1,974	E7	10:1	Y	91.0	15.6	365	23.52	
	1200	208-230/460	284T	U046	284TTGN4076		\$3,526	E7	10:1	Y	90.2	43.0-40.0/20.0	532	26.34	
<b>20</b>	3600	208-230/460	256T	U065	256TTGN4001		\$2,593	E7	10:1	Y	90.2	52.0-47.0/23.5	385	25.27	91
	1800	208-230/460	256T	U009	256TTGN4026		\$2,362	E7	2:1	Y	91.0	53.5-50.0/25.0	376	25.27	91
	1800	575	256T	U028	256TTGN4030		\$2,362	E7	2:1	Y	91.0	20.0	379	25.27	
	1200	208-230/460	286T	U047	286TTGN4076		\$4,112	E7	10:1	Y	90.2	57.0-54.0/27.0	550	27.84	

Blue shaded areas are Cast Iron Frames

Continued on next page.

# Export Only - Non EISA Compliant

## Hazardous Duty™ Division 1 Explosion Proof Class I and II, Groups C (as noted), D, F & G

### Blue Chip® Severe Duty, EAct Efficiency, Three Phase, Rigid Base

Same features as motors listed on page 81.

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	CT SPEED RANGE	GROUP C	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>25</b>	3600	230/460	284TS	U066	284TSTGP4001		\$3,346	E7	10:1	Y	91.0	60.0/30.0	441	24.89	
	1800	208-230/460	284T	U010	284TTGP4026		\$3,005	E7	2:1	Y	92.4	67.0-62.0/31.0	448	26.26	91
	1800	208-230/460	284TS	U076	284TSTGP4036		\$3,005	E7	2:1	Y	92.4	67.0-62.0/31.0	440	24.89	91
	1800	575	284T	U029	284TTGP4030		\$3,005	E7	2:1	Y	92.4	24.8	325	26.26	
	1200	230/460	324T	U048	324TTGP4076		\$5,195	E7	10:1	Y	91.7	67.0/33.5	619	28.97	
<b>30</b>	3600	230/460	286TS	U067	286TSTGP4001		\$3,607	E7	2:1	Y	91.0	72.0/36.0	456	26.39	
	1800	208-230/460	286T	U011	286TTGP4026		\$3,484	E7	2:1	Y	92.4	81.0-74.0/37.0	481	27.76	91
	1800	208-230/460	286TS	U077	286TSTGP4036		\$3,484	E7	2:1	Y	92.4	81.0-74.0/37.0	420	26.39	87,91
	1200	230/460	326T	U049	326TTGS4076		\$6,079	E7	2:1	Y	91.7	76.0/38.0	768	30.47	
<b>40</b>	3600	230/460	324TS	U068	324TSTGP4001		\$4,856	E7	2:1	Y	91.7	95.0/47.5	584	27.47	
	1800	230/460	324TS	U078	324TSTGP4036		\$4,639	E7	2:1	Y	93.0	100/50.0	700	27.47	17,87
	1200	230/460	364T	E568	364TTGS6588		\$7,522	E7	10:1	Y	93.6	100/50.0	1046	31.5	68
	1200	230/460	364T	U050	364TTGS4086		\$7,909	E7	2:1	Y	93.0	103/51.5	1024	31.50	
<b>50</b>	3600	230/460	326TS	U069	326TSTGP4001		\$6,275	E7	2:1	Y	92.4	115/57.5	622	28.97	
	1800	230/460	326T	U013	326TTGP4026		\$5,647	E7	2:1	Y	93.0	122/61.0	678	30.47	17,87
	1800	230/460	326TS	U079	326TSTGP4036		\$5,647	E7	2:1	Y	93.0	122/61.0	625	28.97	17,87
	1200	230/460	365T	U092	365TTGS4091		\$8,968	E7	2:1	Y	93.0	127/63.5	1109	32.50	
<b>60</b>	3600	230/460	364TS	U070	364TSTGS4001		\$8,968	E7	2:1	Y	93.0	141/70.5	1015	29.38	
	1800	230/460	364T	U093	364TTGS4046		\$8,204	E7	2:1	Y	93.6	144/72.0	1033	31.50	
	1800	230/460	364TS	U080	364TSTGS4026		\$8,204	E7	2:1	Y	93.6	144/72.0	1041	29.38	17,87
	1800	230/460	364T	E573	364TTGS6542		\$8,395	E7	10:1	Y	94.5	138/69.0	1071	31.5	
	1800	575	364T	U033	364TTGS4040		\$8,204	E7	2:1	Y	93.6	57.5	1055	31.50	87
	1200	230/460	404T	U089	404TTGS4087		\$10,690	E7	2:1	Y	93.6	149/74.5	1289	35.62	
<b>75</b>	3600	230/460	365TS	U071	365TSTGS4001		\$10,364	E7	2:1	Y	93.0	172/86.0	1057	30.38	
	1800	230/460	365T	U094	365TTGS4046		\$10,094	E7	2:1	Y	94.1	178/89.0	1138	32.50	
	1800	230/460	365T	E576	365TTGS6547		\$9,859	E7	2:1	Y	94.5	172/86.0	1124	32.5	68
	1800	575	365T	U034	365TTGS4040		\$10,094	E7	2:1	Y	94.1	71.0	1094	32.50	87
	1200	230/460	405T	U088	405TTGS4087		\$12,432	E7	2:1	Y	93.6	185/92.5	1398	37.12	
<b>100</b>	3600	230/460	405TS	U096	405TSTGS4003		\$14,020	E7	2:1	Y	94.1	224/112	1263	34.12	
	1800	230/460	405T	U097	405TTGS4046		\$12,412	E7	2:1	Y	94.5	228/114	1355	37.12	
	1800	230/460	405TS	U082	405TSTGS4026		\$12,412	E7	2:1	Y	94.5	228/114	1333	34.12	87
	1200	230/460	444T	E580	444TTGS6588		\$17,067	E7	2:1	Y	95.0	238/119	1813	41.3	68,87
	1800	575	405T	U035	405TTGS4040		\$12,412	E7	2:1	Y	94.5	91.0	1365	37.12	87
	1200	230/460	444T	U095	444TTGS4087		\$17,280	E7	2:1	Y	94.1	238/119	1829	41.25	
<b>125</b>	3600	460	444TS	U073	444TSTGS4003		\$19,353	E7	2:1	Y	94.5	137	1824	37.50	
	1800	460	444T	U085	444TTGS4038		\$16,030	E7	2:1	Y	94.5	142	1835	41.25	
	1800	460	444TS	U083	444TSTGS4026		\$16,030	E7	2:1	Y	94.5	142	1835	37.50	87
	1800	460	444T	E582	444TTGS6539		\$16,403	E7	2:1	Y	95.4	141	1845	41.3	68
	1800	575	444T	U036	444TTGS4042		\$16,030	E7	2:1	Y	94.5	113	1808	41.25	87
	1200	460	445T	U055	445TTGN4086		\$20,448	E7	2:1	Y	94.5	152	2225	43.19	87
<b>150</b>	3600	460	445TS	U074	445TSTGN4001		\$22,653	E7	2:1	Y	95.4	167	2212	39.44	87
	1800	460	445T	U018	445TTGN4037		\$18,950	E7	10:1	Y	95.0	172	2500	43.19	
	1800	460	445TS	U084	445TSTGN4027		\$18,950	E7	10:1	Y	95.0	172	2163	39.44	
	1800	575	445T	U037	445TTGN4030		\$19,798	E7	10:1	Y	95.0	138	2236	43.19	
	1200	460	445T	U090	445TTGN4087		\$22,250	E7	2:1	Y	95.0	182	2384	43.19	RB,13,87
<b>200</b>	3600	460	445TS	U075	445TSTGN4005		\$27,641	E7	2:1	Y	95.0	222	2395	39.44	87
	1800	460	445T	U019	445TTGN4053		\$22,400	E7	2:1	Y	95.0	225	2377	43.19	RB
	1800	575	445T	U038	445TTGN4045		\$22,400	E7	2:1	Y	95.0	180	2384	43.19	RB,87
	1200	460	447/9T	U091	449TTGS4088		\$26,829	E7	2:1	Y	95.0	243	2878	51.69	RB,87
<b>250</b>	3600	460	447/9TS	H513	449TSTGS7003		\$30,507	E7	-----	Y	95.0	280	2611	47.94	17,87

Blue shaded areas are Cast Iron Frames

EXPORT



# Export Only - Non EISA Compliant

## Hazardous Duty™ Division 1 Explosion Proof Class I and II, Groups D, F & G

### Blue Chip® Severe Duty, Three Phase, C-Face Footed (Rigid Base)

Same features as motors listed on page 78.

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	CT SPEED RANGE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1</b>	1800	208-230/460	143TC	C361	143TTGN4051		\$762	10:1	E7	82.5	3.0-3.0/1.5	65	15.23	68,80
<b>1 1/2</b>	1800	208-230/460	145TC	C362	145TTGN4032		\$806	10:1	E7	84.0	4.6-4.4/2.2	80	15.23	68,80
<b>2</b>	1800	208-230/460	145TC	C363	145TTGN4049		\$848	10:1	E7	85.5	6.2-6.0/3.0	82	15.23	68,80
<b>3</b>	1800	208-230/460	182TC	C364	182TTGS4069		\$986	10:1	E7	87.5	9.0-8.4/4.2	140	18.19	68
	1800	575	182TC	C368	182TTGS4036		\$986	10:1	E7	87.5	3.35	144	18.19	
<b>5</b>	1800	208-230/460	184TC	C365	184TTGS4075		\$1,074	10:1	E7	86.5	14.0-13.0/6.5	153	18.19	TS,68
	1800	575	184TC	C369	184TTGS4037		\$1,074	10:1	E7	86.5	5.2	152	18.19	TS
<b>7 1/2</b>	1800	208-230/460	213TC	C366	213TTGS4028		\$1,460	10:1	E7	89.5	22.0-20.0/10.0	232	20.40	TS,68
	1800	575	213TC	C370	213TTGS4036		\$1,460	10:1	E7	89.5	8.0	250	20.40	TS
<b>10</b>	1800	208-230/460	215TC	C367	215TTGS4028		\$1,679	2:1	E7	89.5	28.3-25.0/12.5	207	20.40	TS,68

## Hazardous Duty™ Division 1 Explosion Proof Class I and II, Groups C, D, F & G

### Blue Chip® Severe Duty, Three Phase, C-Face Footless

Same features as motors listed on page 80.

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	CT SPEED RANGE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1</b>	1800	208-230/460	143TC	C320	143TTGN7062		\$699	10:1	E7	77.0	3.5-3.6/1.8	55	12.98	18,68
<b>1 1/2</b>	3600	208-230/460	143TC	C301	143TTGN7020		\$727	10:1	E7	80.0	4.9-5.0/2.5	54	12.98	18,68
	1800	208-230/460	145TC	C321	145TTGN7337		\$740	10:1	E7	80.0	4.8-4.8/2.4	60	13.98	18,68
<b>2</b>	3600	208-230/460	145TC	C302	145TTGN7022		\$789	2:1	E7	80.0	6.4-6.2/3.1	59	13.98	18,68
	1800	208-230/460	145TC	C322	145TTGN7338		\$779	10:1	E7	81.5	6.2-6.2/3.1	65	13.98	18,68
<b>3</b>	3600	230/460	182TC	C303	182TTGS7315		\$868	10:1	E7	82.5	7.8/3.9	119	15.62	68
	1800	230/460	182TC	C323	182TTGS7068		\$928	2:1	E7	78.5	8.8/4.4	112	15.62	68
<b>5</b>	3600	230/460	184TC	C304	184TTGS7313		\$1,089	2:1	E7	84.0	12.0/6.0	133	16.62	68
	1800	230/460	184TC	C324	184TTGS7072		\$1,007	2:1	E7	84.0	13.2/6.6	132	16.62	68
<b>7 1/2</b>	1800	230/460	213TC	C325	213TTGS7067		\$1,378	2:1	E7	87.5	20.0/10.0	188	19.50	68
<b>10</b>	1800	230/460	215TC	C326	215TTGS7065		\$1,578	2:1	E7	87.5	26.0/13.0	216	21.00	68
<b>15</b>	3600	230/460	254TC	C307	254TTGP7021		\$2,066	2:1	E7	85.5	38.8/19.4	301	24.19	68
	1800	230/460	254TC	C327	254TTGP7061		\$2,034	-----	E7	86.5	40/19.9	370	24.19	68
<b>20</b>	3600	230/460	256TC	C308	256TTGP7012		\$2,481	2:1	E7	88.5	49.5/24.8	340	25.94	68
	1800	230/460	256TC	C328	256TTGP7060		\$2,543	2:1	E7	88.5	52.0/26.0	315	25.94	68

Blue shaded areas are Cast Iron Frames

# Export Only - Non EISA Compliant

## Globetrotter® IEC (Metric) Frame, Three Phase, Totally Enclosed, B3 Mounting, Rigid Base

Same features as motors listed on page 96.

Multiplier Symbol F4

Suitable for use on VFD per guidelines on page 17.

HP/ Kw	RPM 60/50 Hz	60 Hz VOLTS	50 HZ VOLTS	IEC FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	CT SPEED RANGE	NOM. EFF.	60 Hz F.L. AMPS	WEIGHT	"L" DIM.	FOOT NOTES	B5/FF FLANGE
<b>1-.75</b>	1200/1000	230/460	200/400	90S	R314	90ST11FH5376		\$416	20:1	80.0	3.3/1.7	33	326		A572
<b>1 1/2-1.1</b>	1800/1500	230/460	200/400	90S	R316	90ST17FH5326		\$315	20:1	85.5	4.6/2.3	40	326		A572
	1800/1500	575	480	90S	R416	90ST17FH5327		\$315	20:1	85.5	1.8	39	326		A572
<b>2-1.5</b>	3600/3000	230/460	200/400	90S	R318	90ST34FH5301		\$328	20:1	85.5	5.2/2.6	36	326		A572
	3600/3000	575	480	90S	R418	90ST34FH5302		\$328	20:1	85.5	2.1	36	326		A572
	1800/1500	230/460	200/400	90L	R319	90LT17FH5326		\$339	20:1	84.0	5.8/2.9	41	326		A572
	1800/1500	575	480	90L	R419	90LT17FH5327		\$339	20:1	84.0	2.4	39	326		A572
<b>3-2.2</b>	1200/1000	230/460	200/400	100L	R320	100LTFC4576		\$529	2:1	86.5	7.6/3.8	82	380		A573
	1800/1500	230/460	200/400	100L	R322	100LTFC4526		\$513	20:1	88.5	9.0/4.5	84	380		A573
<b>4-3</b>	1200/1000	230/460	200/400	112M	R323	112MTFC4576		\$747	20:1	87.5	9.0/4.5	100	400		A573
	1800/1500	230/460	200/400	100L	R352	100LTFC4536		\$557	20:1	88.5	11.0/5.5	84	380		A573
<b>5 1/2-4</b>	1200/1000	230/460	200/400	132S	R353	132STFC4586		\$904	2:1	87.5	13/6.5	154	475		A575
	3600/3000	230/460	200/400	112M	R324	112MTFC4511		\$704	20:1	87.5	12.8/6.4	104	400		A574
<b>7 1/2-5.5</b>	1800/1500	230/460	200/400	112M	R325	112MTFC4536		\$679	20:1	87.5	14.0/7.0	104	400		A574
	1800/1500	230/460	200/400	132S	R328	132STFC4526		\$883	20:1	90.2	19.6/9.8	150	475		A575
<b>10-7.5</b>	1200/1000	230/460	200/400	132M	R329	132MTFC4587		\$1,256	2:1	89.5	23.4/11.7	180	475		A575
	3600/3000	230/460	200/400	132S	R330	132STFC4502		\$945	20:1	89.5	23.2/11.6	163	475		A575
<b>15-11</b>	1800/1500	230/460	200/400	132M	R331	132MTFC4536		\$1,048	2:1	91.0	26/13	174	475		A575
	1200/1000	230/460	200/400	160M	R332	160MTFC4586		\$1,629	2:1	89.5	28/14	251	600	YD	A576
	1800/1500	230/460	200/400	160M	R334	160MTFC4536		\$1,531	10:1	91.0	37.8/18.9	264	600	YD	A576
<b>20-15</b>	1200/1000	230/460	200/400	160L	R335	160LTFC4588		\$2,091	2:1	90.2	38.8/19.4	330	600	YD	A576
	1800/1500	230/460	200/400	160L	R337	160LTFC4538		\$1,893	2:1	91.0	47/23.5	311	600	YD	A576
<b>25-18.5</b>	1200/1000	230/460	200/400	180L	R338	180LTFC4588		\$2,932	2:1	90.2	54/27	385	710	YD	A577
	1800/1500	230/460	200/400	180M	R340	180MTFC4536		\$2,406	20:1	92.4	59.2/29.6	381	670	YD	A577
<b>30-22</b>	1200/1000	230/460	200/400	200L	R341	200LTFC4588		\$3,677	2:1	91.7	63/31.5	467	775	YD	A578
	1800/1500	230/460	200/400	180L	R343	180LTFC4538		\$2,705	20:1	92.4	69.2/34.6	427	710	YD	A577
<b>40-30</b>	1200/1000	230/460	200/400	200L	R344	200LTFC4589		\$4,166	2:1	91.7	76/38	467	775	YD	A578
	3600/3000	230/460	200/400	225M	R347	225MTFC4586		\$6,259	2:1	93.0	100/50	633	845	YD	A579
<b>50-37</b>	1800/1500	230/460	200/400	200L	R348	200LTFC4513		\$4,851	10:1	92.4	111.4/55.7	546	775	YD	A578
	1200/1000	230/460	200/400	225S	R349	225STFC4526		\$5,525	10:1	93.6	117.6/58.8	632	845	YD	A579
	1200/1000	230/460	200/400	250M	R350	250MTFC4586		\$8,773	2:1	93.0	125/62.5	655	930	YD	N/A

EXPORT

## Globetrotter® IEC (Metric) Frame, Three Phase, Totally Enclosed, B3/B5 "FF" (D-Flange)

Same features as motors listed on page 96.

Multiplier Symbol F4

Suitable for use on VFD per guidelines on page 17.

HP/ Kw	RPM 60/50 Hz	60 Hz VOLTS	50 HZ VOLTS	IEC FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	CT SPEED RANGE	NOM. EFF.	60 Hz F.L. AMPS	WEIGHT	"L" DIM.	FOOT NOTES
<b>1-.75</b>	1200/1000	230/460	200/400	90SD	R394	90ST11FH5515		\$476	20:1	80.0	3.3/1.7	35	320	
<b>1 1/2-1.1</b>	1800/1500	230/460	200/400	90SD	R396	90ST17FH5517		\$344	20:1	85.5	4.6/2.3	37	320	
	3600/3000	230/460	200/400	90SD	R397	90ST34FH5518		\$375	20:1	85.5	5.2/2.6	33	320	
<b>2-1.5</b>	1800/1500	230/460	200/400	90LD	R398	90LT17FH5519		\$386	20:1	84.0	5.8/2.9	38	320	
	3600/3000	230/460	200/400	90LD	R399	90LT34FH5520		\$531	20:1	86.5	7.2/3.6	39	320	

## Globetrotter® IEC (Metric) Frame, Three Phase, Totally Enclosed, B3/B14 "FT" (C-Face)

Same features as motors listed on page 96.

Multiplier Symbol F4

Suitable for use on VFD per guidelines on page 17.

HP/ Kw	RPM 60/50 Hz	60 Hz VOLTS	50 HZ VOLTS	IEC FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	CT SPEED RANGE	NOM. EFF.	60 Hz F.L. AMPS	WEIGHT	"L" DIM.	FOOT NOTES
<b>1-.75</b>	1200/1000	230/460	200/400	90SC	R374	90ST11FH5415		\$476	20:1	80.0	3.3/1.7	35	320	
<b>1 1/2-1.1</b>	1800/1500	230/460	200/400	90SC	R376	90ST17FH5417		\$338	20:1	85.5	4.6/2.3	37	320	
	3600/3000	230/460	200/400	90SC	R377	90ST34FH5418		\$368	20:1	85.5	5.2/2.6	33	320	
<b>2-1.5</b>	1800/1500	230/460	200/400	90LC	R378	90LT17FH5419		\$375	20:1	84.0	5.8/2.9	38	320	
	3600/3000	230/460	200/400	90LC	R379	90LT34FH5420		\$531	20:1	86.5	7.2/3.6	39	320	

# Export Only - Non EISA Compliant

## PowerWash™ XT Washdown Duty, White Epoxy, Totally Enclosed, Three Phase, Rigid Base

Same features as motors listed on page 108.

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	CT SPEED RANGE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1</b>	1200	208-230/460	145T	K2051	5KE49UN8405		\$760	10:1	F3	82.5	3.6-4.2/2.1	41	13.25	50
<b>1 1/2</b>	1800	208-230/460	145T	K2052	5KE49TN8380		\$659	10:1	F3	84.0	4.4-5.3/2.7	39	12.75	
	1800	208-230/460	145T	N321	145TTWR4029		\$567	10:1	F3	86.5	4.2-4.2/2.1	39	13.12	V
<b>2</b>	1800	208-230/460	145T	K2053	5KE48WN8366		\$704	10:1	F3	84.0	6.0-5.6/2.8	46	13.75	
	1800	208-230/460	145T	N312	145TTWR4027		\$704	10:1	F3	86.5	6.5-6.2/3.1	46	13.25	V
<b>3</b>	1800	208-230/460	182T	N1314	182TTWW4027		\$931	10:1	F3	89.5	8.2-8.2/4.1	64	13.97	V
<b>5</b>	3600	208-230/460	184T	N1315	184TTWW4004		\$1,172	10:1	F3	88.5	13.0-13.0/6.5	81	14.46	V
	1800	208-230/460	184T	N1316	184TTWW4027		\$1,064	10:1	F3	89.5	13.0-13.0/6.5	73	14.97	V
<b>7 1/2</b>	3600	208-230/460	184T	N1317	184TTWW4003		\$1,479	10:1	F3	89.5	17.6-16.8/8.4	80	15.96	V
	1800	208-230/460	213T	N318	213TTWR4027		\$1,329	10:1	F3	91.7	20.4-20.4/10.2	140	17.71	V
<b>10</b>	1800	208-230/460	215T	N319	215TTWR4027		\$1,590	10:1	F3	91.7	26.0-26.0/13.0	165	18.71	d,V

## PowerWash™ XT Washdown Duty, White Epoxy, Totally Enclosed, Three Phase, C-Face Footless

Same features as motors listed on page 108.

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	CT SPEED RANGE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>3</b>	3600	208-230/460	145TC	N655	145TTWR5301		\$839	10:1	F3	85.5	8.4-7.6/3.8	36	13.25	V
	1800	208-230/460	182TC	N1656	182TTWW7026		\$922	10:1	F3	87.5	9.0-9.0/4.5	65	14.47	V
<b>5</b>	3600	208-230/460	184TC	N1657	184TTWW7001		\$1,170	10:1	F3	87.5	13.6-12.40/6.2	90	14.47	V
	1800	208-230/460	184TC	N1658	184TTWW7026		\$1,039	10:1	F3	87.5	14.0-13.2/6.6	73	14.47	V
<b>7 1/2</b>	3600	208-230/460	213TC	N659	213TTWR7001		\$1,450	10:1	F3	88.5	19.6-18.4/9.2	150	15.47	d,V
	1800	208-230/460	213TC	N660	213TTWR7026		\$1,328	10:1	F3	89.5	24.0-22.0/11.0	125	17.71	V
<b>10</b>	1800	208-230/460	215TC	N661	215TTWR7026		\$1,507	10:1	F3	89.5	29.0-28.0/14.0	150	18.71	V

Continued on next page.

EXPORT

# Export Only - Non EISA Compliant

## PowerWash™ XT Washdown Duty, White Epoxy, Totally Enclosed, Three Phase, C-Face Footed (Rigid Base)

Same features as motors listed on page 108.

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	CT SPEED RANGE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1</b>	1800	208-230/460	143TC	N626	143TTWR4028		\$594	10:1	F3	85.5	3.2-3.1/1.55	34	13.25	V
<b>1 1/2</b>	1800	208-230/460	145TC	K2058	5KE49TN8390		\$617	---	F3	84.0	4.4-5.3/2.7	40	13.25	
	1800	575	145TC	K2059	5KE49TN8398		\$617	1000:1	F3	84.0	1.8	42	13.25	N
<b>2</b>	3600	208-230/460	145TC	K2060	5KE49TN8389		\$763	---	F3	84.0	50.6-5.2/2.6	42	13.25	50
	1800	575	145TC	K2062	5KE48WN8388		\$768	10:1	F3	86.5	2.3	46.0	13.75	
	1800	208-230/460	145TC	K2061	5KE48WN8369		\$768	---	F3	84.0	6.0-5.6/2.8	45	13.75	50
	1800	208-230/460	145TC	N612	145TTWR4026		\$768	10:1	F3	86.5	6.0-5.6/2.8	50	13.75	V
<b>3</b>	3600	230/460	145TC	K2063	5KE49WN8383		\$536	---	F3	85.5	7.6/3.8	46	13.75	50
	3600	208-230/460	145TC	N613	145TTWR4001		\$905	10:1	F3	86.5	8.4-7.6/3.8	46	13.75	V
	1800	208-230/460	182TC	N1614	182TTWW4026		\$1,009	10:1	F3	89.5	8.2-8.2/4.1	65	14.47	V
<b>5</b>	3600	208-230/460	184TC	N1615	184TTWW4001		\$1,263	10:1	F3	88.5	13.4-12.2/6.1	78	14.47	V
	1800	208-230/460	184TC	N1616	184TTWW4026		\$1,141	10:1	F3	89.5	13.8-13.0/6.5	74	14.97	V
<b>7 1/2</b>	3600	208-230/460	213TC	N617	213TTWR4002		\$1,568	10:1	F3	89.5	17.6-16.8/8.4	104	17.47	V
	1800	208-230/460	213TC	N618	213TTWR4026		\$1,446	10:1	F3	91.7	24.0-22.0/11.0	145	17.21	V
<b>10</b>	1800	208-230/460	215TC	N619	215TTWR4026		\$1,644	10:1	F3	91.7	29.0-28.0/14.0	145	18.71	V

## PowerWash™ SXT Washdown Duty, Stainless Steel, Totally Enclosed, Three Phase, C-Face Footed (Rigid Base)

Same features as motors listed on page 111.

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	CT SPEED RANGE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1</b>	1800	208-230/460	143TC	N414	143TTWD4026		\$690	10:1	F3	85.5	3.2-3.0/1.5	45	13.69	
<b>1 1/2</b>	3600	208-230/460	143TC	N456	143TTWD4002		\$726	10:1	F3	84.0	4.2-3.8/1.9	48	13.87	
<b>2</b>	3600	208-230/460	145TC	N458	145TTWD4001		\$870	10:1	F3	85.5	5.6-5.0/2.5	47	13.87	
	1800	208-230/460	145TC	N418	145TTWD4029		\$852	10:1	F3	86.5	6.2-5.8/2.9	50	13.69	

EXPORT

# Export Only - Non EISA Compliant

## Close Coupled Pump, JM and JP, Three Phase

### Drip-proof, C-Face Footless (Vertical) and C-Face Footed (Rigid Base)

Same features as motors listed on page 119.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
<b>1</b>	1800	208-230/460	143JM	M301	143TTDR5336		\$283	S2	77.0	3.5-3.6/1.8	28	13.12	68
	1800	208-230/460	143JMV	M302	143TTDR5334		\$324	S2	77.0	3.5-3.6/1.8	27	13.42	27,68
	1800	208-230/460	143JP	M101	143TTDR5338		\$283	S2	77.0	3.5-3.6/1.8	32	16.18	68
	1800	208-230/460	143JPV	M102	143TTDR5337		\$324	S2	77.0	3.5-3.6/1.8	28	16.48	27,68
<b>1 1/2</b>	3600	208-230/460	143JM	M303	143TTDR5309		\$323	S2	80.0	4.9-5.0/2.5	27	13.12	68
	3600	208-230/460	143JMV	M304	143TTDR5310		\$364	S2	80.0	4.9-5.0/2.5	35	12.92	27,68
	3600	208-230/460	143JP	M103	143TTDR5307		\$323	S2	80.0	4.9-5.0/2.5	30	16.18	68
	1800	208-230/460	145JM	M305	145TTDR5348		\$309	S2	80.0	4.8-4.8/2.4	31	13.12	68
	1800	208-230/460	145JMV	M306	145TTDR5346		\$349	S2	80.0	4.8-4.8/2.4	30	13.42	27,68
	1800	208-230/460	145JP	M105	145TTDR5354		\$309	S2	80.0	4.8-4.8/2.4	32	16.18	68
<b>2</b>	3600	208-230/460	145JM	M307	145TTDR5313		\$362	S2	80.0	6.4-6.2/3.1	29	13.12	68
	3600	208-230/460	145JMV	M308	145TTDR5314		\$404	S2	80.0	6.4-6.2/3.1	28	12.92	27,68
	1800	208-230/460	145JM	M309	145TTDR5352		\$323	S2	81.5	6.2-6.2/3.1	36	14.12	68
	1800	208-230/460	145JMV	M310	145TTDR5350		\$364	S2	81.5	6.2-6.4/3.2	36	14.42	27,68
	1800	208-230/460	145JP	M109	145TTDR5356		\$323	S2	81.5	6.2-6.2/3.1	37	17.18	68
	1800	208-230/460	145JPV	M110	145TTDR5355		\$364	S2	81.5	6.2-6.2/3.1	37	17.48	27,68
<b>3</b>	3600	208-230/460	145JP	M111	145TTDR5319		\$406	S2	84.0	8.9-8.4/4.2	36	16.68	68
	1800	208-230/460	182JM	M313	182TTDB7355		\$395	S2	80.0	9.6-10/5.0	75	13.87	68,98
	1800	208-230/460	182JM	M360	182TTDR5336		\$377	S2	84.0	9.2-8.6/4.3	57	16.59	d, 68
	1800	208-230/460	182JMV	M361	182TTDR5337		\$462	S2	84.0	9.2-8.6/4.3	54	16.94	27,68
	1800	208-230/460	182JMV	M1314	182TTDB7350		\$481	S2	81.5	9.4-9.0/4.5	100	17.87	27,68,98
	1800	208-230/460	182JP	M170	182TTDR5338		\$377	S2	84.0	9.2-8.6/4.3	60	19.65	13,68
	1800	208-230/460	182JPV	M171	182TTDR5339		\$462	S2	84.0	9.2-8.6/4.3	59	20.00	13,27,68
<b>5</b>	3600	208-230/460	182JM	M362	182TTDR5303		\$487	S2	84.0	13.5-12.4/6.2	59	18.87	13
	3600	208-230/460	182JM	M315	182TTDR7325		\$503	S2	84.0	14-13.4/6.7	55	14.82	d,68,98,CF
	3600	208-230/460	182JMV	M363	182TTDR5304		\$572	S2	84.0	13.5-12.4/6.2	56	16.94	27,68
	3600	208-230/460	182JMV	M316	182TTDR7601		\$590	S2	82.5	14.2-13.2/6.6	54	19.24	d,27,68,98,CF
	3600	208-230/460	182JP	M172	182TTDR5305		\$487	S2	88.5	13.5-12.4/6.2	62	19.65	13,68
	3600	208-230/460	182JP	M1114	182TTDW7605		\$503	S2	81.5	14.6-14.0/7.0	67	17.46	13,68
	1800	208-230/460	184JM	M317	184TTDB7357		\$487	S2	86.5	14.4-13.6/6.8	58	16.35	68,98
	1800	208-230/460	184JMV	M318	184TTDB7356		\$572	S2	86.5	14.6-13.6/6.8	78	18.87	27,68,98
	1800	208-230/460	184JP	M115	184TTDR7358		\$487	S2	82.5	14.4-14.2/7.1	80	17.38	68,98,CF,d
<b>7 1/2</b>	3600	208-230/460	184JM	M1319	184TTDB7322		\$584	S2	86.5	20.0-18.0/9.0	76	15.82	68,98
	3600	208-230/460	184JMV	M1320	184TTDB7325		\$669	S2	86.5	20.0-18.0/9.0	86	20.24	27,68,98
	3600	208-230/460	184JP	M1116	184TTDW7604		\$584	S2	84.0	21.0-19.0/9.5	71	18.38	13,68
	1800	208-230/460	213JM	M321	213TTDBA7047		\$703	S2	87.5	22.0-20.4/10.2	100	17.66	68,98
	1800	208-230/460	213JMV	M322	213TTDW7048		\$815	S2	84.0	22.0-21.6/10.8	88	18.94	d,27,68
	1800	208-230/460	213JMV	M1322	213TTDBA7048		\$815	S2	84.0	22.0-21.6/10.8	68	18.94	27,68,98
	1800	208-230/460	213JP	M117	213TTDW7049		\$703	S2	84.0	22.0-21.6/10.8	111	21.53	68
	1800	208-230/460	213JP	M165	213TTDW7050		\$815	S2	84.0	22.0-21.6/10.8	123	22.81	27,68

Continued on next page.



# Export Only - Non EISA Compliant

## Close Coupled Pump, JM and JP, Three Phase

### DripProof, C-Face Footless (Vertical) and C-Face Footed (Rigid Base)

Same features as motors listed on page 119.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
10	3600	208-230/460	213JM	M323	213TTDW7022		\$751	S2	85.5	28.0-25.0/12.5	96	17.66	d,68
	3600	208-230/460	213JM	M1323	213TTDBA7022		\$751	S2	85.5	28.0-25.0/12.5	111	17.66	68,98
	3600	208-230/460	213JMV	M324	213TTDW7023		\$861	S2	85.5	28.0-25.0/12.5	90	18.94	27,68
	3600	208-230/460	213JP	M118	213TTDW7024		\$751	S2	85.5	28.0-25.0/12.5	130	21.53	68
	3600	208-230/460	213JPV	M166	213TTDW7025		\$861	S2	85.5	27.6-25.0/12.5	128	22.81	27,68
	1800	208-230/460	215JM	M325	215TTDBA7047		\$834	S2	88.5	28.4-26.4/13.2	150	19.16	68
	1800	208-230/460	215JMV	M326	215TTDW7048		\$945	S2	87.5	29.2-26.4/13.2	132	20.44	27,68
	1800	208-230/460	215JP	M119	215TTDW7049		\$834	S2	87.5	29.0-26.4/13.2	115	23.03	68
15	3600	208-230/460	215JM	M327	215TTDW7022		\$928	S2	86.5	42.0-38.0/19.0	134	19.16	d,68
	3600	208-230/460	215JM	M1327	215TTDBA7022		\$928	S2	86.5	42.0-38.0/19.0	127	19.16	27
	3600	208-230/460	215JMV	M328	215TTDW7023		\$1,040	S2	86.5	42.0-38.0/19.0	102	20.44	27,68
	3600	208-230/460	215JP	M120	215TTDW7024		\$928	S2	86.5	42.0-38.0/19.0	117	23.03	68
	1800	208-230/460	254JM	M329	254TTDX7044		\$1,128	S2	87.5	43.0-39.2/19.6	235	22.42	68
	1800	208-230/460	254JMV	M353	254TTDX7046		\$1,287	S2	87.5	43.0-39.2/19.6	155	23.70	27
	1800	208-230/460	254JP	M121	254TTDX7042		\$1,128	S2	87.5	43.0-39.2/19.6	158	25.29	68
	1800	208-230/460	254JPV	M122	254TTDX7043		\$1,287	S2	87.5	43.0-39.2/19.6	174	26.58	27
20	3600	208-230/460	254JM	M330	254TTDX7008		\$1,171	S2	88.5	52.6-47.0/23.5	156	22.42	68
	3600	208-230/460	254JP	M123	254TTDX7007		\$1,171	S2	88.5	52.6-47.0/23.5	210	25.29	68
	1800	208-230/460	256JM	M331	256TTDX7074		\$1,361	S2	88.5	56.4-53.0/26.5	230	24.17	68
	1800	208-230/460	256JP	M124	256TTDX7054		\$1,361	S2	88.5	56.4-52.8/26.4	250	27.04	
25	3600	208-230/460	256JM	M332	256TTDX7011		\$1,378	S2	89.5	66.0-61.0/30.5	175	24.17	68
	3600	208-230/460	256JP	M125	256TTDX7009		\$1,378	S2	89.5	66.0-61.0/30.5	179	27.04	68
	1800	230/460	284JM	M333	284TTDP7338		\$1,647	S2	87.5	66.0/33.0	330	24.31	68
	1800	230/460	284JP	M126	284TTDP7072		\$1,647	S2	87.5	66.0/33.0	306	27.18	68
30	3600	230/460	284JM	M334	284TTDP7605		\$1,679	S2	88.5	73.0/36.5	292	24.31	68
	3600	230/460	284JP	M127	284TTDP7302		\$1,679	S2	88.5	73.0/36.5	305	27.18	68
	1800	230/460	286JM	M351	286TTDP8626		\$1,901	S2	89.5	79.0/39.5	350	25.81	68
	1800	230/460	286JP	M128	286TTDP7054		\$1,859	S2	89.5	79.0/39.5	331	28.68	68
40	3600	230/460	286JM	M335	286TTDP7317		\$2,104	S2	88.5	100/50.0	325	25.81	68
	3600	230/460	286JP	M129	286TTDP7018		\$2,104	S2	88.5	100/50.0	350	28.68	68
	1800	230/460	324JM	M352	324TTDP8631		\$2,484	S2	89.5	106/53.0	385	26.25	68
	1800	230/460	324JP	M130	324TTDP7073		\$2,484	S2	89.5	106/53.0	563	29.12	68
50	3600	230/460	324JM	M358	324TTDP7320		\$2,868	S2	89.5	124/62.0	393	26.25	
	3600	230/460	324JP	M133	324TTDP8610		\$2,692	S2	89.5	124/62.0	407	29.12	68
	1800	230/460	326JP	M131	326TTDP7330		\$2,868	S2	90.2	130/65.0	427	30.62	68

EXPORT

# Export Only - Non EISA Compliant

## Close-Coupled Pump, JM AND JP, Three Phase, Totally Enclosed, C-Face Footed (Rigid Base)

Same features as motors listed on page 125.

Suitable for use on VFD per guidelines on page 17.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
1	1800	208-230/460	143JM	M401	143TTFR5332		\$353	S2	77.0	3.5-3.6/1.8	31	14.50	68
1 1/2	3600	208-230/460	143JM	M415	143TTFR5303		\$413	S2	80.0	4.7-4.6/2.3	30	14.50	68
	1800	208-230/460	145JM	M402	145TTFR5336		\$385	S2	80.0	4.8-4.8/2.4	32	14.50	68
2	3600	208-230/460	145JM	M403	145TTFR5303		\$445	S2	80.0	6.0-6.0/3.0	32	14.50	68
	1800	208-230/460	145JM	M404	145TTFR5338		\$403	S2	82.5	6.0-5.8/2.9	41	16.00	68
3	3600	208-230/460	182JM	M405	182TTFR5302		\$512	S2	84.0	8.4-7.6/3.8	49	16.47	68
	1800	208-230/460	182JM	M422	182TTFR5330		\$469	S2	85.5	9.2-8.6/4.3	57	17.97	68
5	3600	208-230/460	184JM	M1407	184TTFW7908		\$628	S2	85.5	13.6-12.4/6.2	73	15.59	13,68
	1800	208-230/460	184JM	M408	184TTFR7760		\$610	S2	84.0	14.4-13.2/6.6	85	19.35	d,68
	1800	208-230/460	184JM	M1408	184TTFW7760		\$610	S2	87.5	14.0-13.0/6.5	72	15.59	13,68
7 1/2	3600	208-230/460	184JM	M416	184TTFR8915		\$671	S2	85.5	20.0-19.0/9.5	82	18.85	d,68
	3600	208-230/460	184JP	M1216	184TTFW8914		\$671	S2	86.5	19.9-18.4/9.2	83	21.91	13,68
	3600	208-230/460	213JM	M409	213TTFW7022		\$758	S2	84.0	21.2-19.2/9.6	98	20.59	68
	1800	208-230/460	213JM	M410	213TTFW7047		\$868	S2	87.5	22.0-19.4/9.7	106	20.59	
10	3600	208-230/460	215JM	M411	215TTFW7303		\$928	S2	86.5	27.0-24.0/12.0	143	22.09	68
	1800	208-230/460	215JM	M412	215TTFW7047		\$1,036	S2	88.5	28.0-25.0/12.5	140	22.09	68
15	3600	208-230/460	215JM	M417	215TTFW7022		\$1,105	S2	88.5	40.0-37.0/18.5	143	22.09	68
	3600	208-230/460	254JM	M413	254TFL5004		\$1,161	S2	85.5	41.0-36.0/18.0	170	26.49	AL,68
	3600	208-230/460	215JP	M217	215TTFW7024		\$1,105	S2	88.5	40.0-37.0/18.5	187	25.96	68
	3600	208-230/460	254JP	M213	254TFL5003		\$1,161	S2	85.5	41.0-36.0/18.0	173	27.60	AL,68
	1800	208-230/460	254JM	M420	254TFL5751		\$1,407	S2	88.5	43.0-38.5/19.3	197	26.49	AL,68
20	3600	230/460	256JM	M414	256TFL5023		\$1,563	S2	88.5	49.6/24.8	226	26.49	AL,68
	1800	230/460	256JM	M421	256TFL5055		\$1,708	S2	88.5	52.0/26.0	455	26.49	AL,68

EXPORT

## Fire Pump, Three Phase, DripProof, Rigid Base

Same features as motors listed on page 131.

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	WEIGHT	"C" DIM.	FOOT NOTES
25	3600	200/400	256T	Y621	256TTDX8522		\$1,420	E2	89.5	70.0/35.0	225	22.32	
	1800	200/400	284T	Y623	284TTDP8629		\$1,405	E2	88.5	76.0/38.0	250	23.49	
30	3600	200/400	284TS	Y625	284TSTDP8618		\$1,613	E2	88.5	84.0/42.0	247	22.06	
	3600	230/460	284TS	U505	284TSTDP8621		\$1,613	E2	88.5	73.0/36.5	345	22.06	68
	1800	200/400	286T	Y627	286TTDP8371		\$1,640	E2	89.5	91.0/45.5	332	24.99	
40	3600	200/400	286TS	Y629	286TSTDP8608		\$2,195	E2	88.5	115/57.5	320	23.56	
	1800	200/400	324T	Y637	324TTDP8630		\$2,046	E2	89.5	122/61.0	399	26.00	
50	3600	200/400	324TS	Y633	324TSTDP8607		\$2,706	E2	89.5	143/71.5	548	24.50	
	1800	200/400	326T	Y635	326TTDP8268		\$2,388	E2	90.2	150/75.0	425	27.50	
60	3600	200/400	326TS	Y637	326TSTDP8219		\$3,242	E2	90.2	167/83.5	465	26.00	
	1800	200/400	326TS	Y663	326TSTDP8929		\$2,856	E2	91.7	177/88.5	340	26.00	
	1800	200/400	364T	Y641	364TTDS8274		\$3,091	E2	91.0	176/88.0	625	28.62	
	1800	200/400	364TS	Y639	364TSTDS8328		\$3,091	E2	91.0	177/88.5	625	26.50	
75	3600	200/400	364TS	Y643	364TSTDS8503		\$4,323	E2	90.2	212/106	603	26.50	
	1800	200/400	365TS	Y645	365TSTDS8637		\$3,931	E2	91.7	214/107	660	27.50	
100	3600	200/400	365TS	Y647	365TSTDS7904		\$5,943	E2	91.7	274/137	690	27.50	
	1800	200/400	404TS	Y649	404TSTDS8561		\$5,065	E2	93.0	274/137	850	29.50	
125	3600	200/400	404TS	Y651	404TSTDS7623		\$7,310	E2	92.4	322/161	910	29.50	

Blue shaded areas are Cast Iron Frames

# Export Only - Non EISA Compliant

## Vertical Solid Shaft P-Base, Three Phase, Dripproof

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	DOWN THRUST	BASE DIA.	WEIGHT	"C" DIM.	FOOT NOTES
<b>3</b>	1200	230/460	213HP	M802	213TTDW7089		\$1,357	S5	82.5	10.0/5.0	560	9.88	104	18.80	
<b>5</b>	1200	230/460	215HP	M805	215TTDW7380		\$1,916	S5	85.5	15.0/7.5	650	9.88	138	20.30	
<b>7 1/2</b>	1800	230/460	213HP	M807	213TTDW7059		\$1,672	S5	84.0	21.6/10.8	560	9.88	335	18.80	
	1200	230/460	254HP	M808	254TTDX7088		\$2,281	S5	81.5	22.2/11.1	720	9.88	210	22.55	
<b>10</b>	1800	230/460	215HP	M810	215TTDW7044		\$1,878	S5	87.5	26.4/13.2	560	9.88	135	20.30	
	1200	230/460	256HP	M811	256TTDX7378		\$2,576	S5	87.5	27.6/13.8	720	9.88	389	24.30	
<b>15</b>	3600	230/460	215HP	M813	215TTDW7612		\$2,184	S5	86.5	38.0/19.0	520	9.88	80	20.30	
	1800	230/460	254HP	M814	254TTDX7648		\$2,245	S5	87.5	39.0/19.6	640	9.88	243	22.35	
	1200	230/460	284HP	M815	284TTDR8097		\$3,002	S5	87.5	42.0/21.0	800	9.88	486	27.06	
<b>20</b>	1800	230/460	256HP	M818	256TTDX8938		\$2,561	S5	88.5	52.8/26.4	640	9.88	445	24.30	
	1200	230/460	286HP	M819	286TTDR7395		\$3,652	S5	88.5	53.0/26.5	800	9.88	335	28.56	
	900	230/460	324HP	M820	324TTDR7408		\$4,109	S5	86.5	60.0/30.0	1100	16.38	465	28.06	
<b>25</b>	3600	230/460	256HP	M821	256TTDX7020		\$2,525	S5	89.5	61.0/30.5	520	9.88	189	24.30	
	1800	230/460	284HP	M822	284TTDR9030		\$2,854	S5	88.5	66.0/33.0	700	9.88	289	27.06	
	1200	230/460	324HP	M823	324TTDR8390		\$3,968	S5	88.5	71.0/35.5	1000	16.38	460	28.06	
	900	230/460	326HP	M824	326TTDR7112		\$4,733	S5	87.5	80.0/40.0	1100	16.38	489	30.56	
<b>30</b>	1800	230/460	286HP	M826	286TTDR8648		\$3,210	S5	89.5	79.0/39.5	700	9.88	520	28.56	
	900	230/460	364HP	M828	364TTDS7117		\$5,311	S5	89.5	86.0/43.0	1100	16.50	700	29.00	
<b>40</b>	1800	230/460	324HP	M830	324TTDR8940		\$3,551	S5	89.5	106/53.0	800	16.38	480	28.06	
	1200	230/460	364HP	M831	364TTDS7376		\$5,535	S5	89.5	106/53.0	1000	16.50	702	29.00	
	900	230/460	365HP	M832	365TTDS7114		\$6,402	S5	90.2	116/58.0	1100	16.50	770	29.00	
<b>50</b>	3600	230/460	324HP	M833	324TTDR17003		\$4,167	S5	89.5	124/62.0	600	16.38	510	28.06	
	1800	230/460	326HP	M834	326TTDR8954		\$4,215	S5	90.2	130/65.0	800	16.38	589	29.56	
	1200	230/460	365HP	M835	365TTDS7376		\$6,530	S5	90.2	129/64.5	1000	16.50	725	29.00	
	900	230/460	404HP	M836	404TTDS17102		\$7,297	S5	91.0	136/68.0	1400	16.50	790	33.31	
<b>60</b>	3600	230/460	326HP	M837	326TTDR7302		\$4,661	S5	90.2	142/72.0	600	16.38	589	29.56	
	1800	230/460	364HP	M838	364TTDR5039		\$4,868	S5	91.7	154/77.0	800	16.38	587	30.06	
	1200	230/460	404HP	M839	404TTDS7376		\$7,453	S5	91.7	152/76.0	1200	16.50	923	31.75	
<b>75</b>	3600	230/460	364HP	M841	364TTDS7009		\$5,832	S5	90.2	184/92.0	600	16.50	733	29.00	
	1800	230/460	365HP	M842	365TTDS7071		\$5,926	S5	91.7	186/93.0	800	16.50	740	29.00	
	1200	230/460	405HP	M843	405TTDS7099		\$8,767	S5	92.4	182/91.0	1200	16.50	1014	31.75	
<b>100</b>	3600	230/460	365HP	M845	365TTDS7019		\$7,860	S5	91.7	238/119	600	16.50	762	29.00	
	1800	230/460	404HP	M846	404TTDS7071		\$7,487	S5	93.0	238/119	900	16.50	937	31.75	
	1200	230/460	444HP	M847	444TTDS8981		\$10,881	S5	93.0	242/121	1400	16.38	1317	36.02	
<b>125</b>	1800	460	405HP	M850	405TTDS7354		\$9,043	S5	93.6	146	900	16.50	1010	31.75	
	1200	460	445HP	M851	445TTDS9476		\$12,920	S5	93.6	148	1400	16.38	1385	36.02	
<b>150</b>	3600	460	405HP	M853	405TTDS7301		\$11,998	S5	93.0	167	600	16.50	1071	31.75	
<b>200</b>	3600	460	444HP	M857	444TTDS7302		\$16,398	S5	93.6	225	600	16.38	1357	36.02	
	1200	460	505P	M859	505UTDS3998		\$22,807	S5	94.1	250	1400	20.00	1970	38.75	
<b>250</b>	3600	460	445HP	M861	445TTDS7315		\$17,555	S5	93.6	275	600	16.38	1520	36.02	
	1200	460	505P	M863	505UTDS3999		\$24,323	S5	95.0	295	1400	20.00	2111	38.75	

EXPORT

Blue shaded areas are Cast Iron Frames

# Export Only - Non EISA Compliant

## Vertical Solid Shaft P-Base, Three Phase, Totally Enclosed

HP	RPM	VOLTS	FRAME	CAT. NO.	MODEL NO.	STOCK	LIST PRICE	MULT. SYMB.	NOM. EFF.	F.L. AMPS	DOWN THRUST	BASE DIA.	WEIGHT	"C" DIM.	FOOT NOTES
<b>3</b>	1200	230/460	213HP	M877	213TTFW7083		\$1,766	S5	81.5	9.6/4.8	560	9.88	134	21.16	
<b>5</b>	1200	230/460	215HP	M880	215TTFW7088		\$2,488	S5	84.0	14.8/7.4	650	9.88	230	22.66	
<b>7 1/2</b>	3600	230/460	213HP	M881	213TTFW7008		\$2,245	S5	84.0	19.2/9.6	380	9.88	157	21.16	
	1200	230/460	254HP	M883	254TTFNA7078		\$2,761	S5	88.5	20.0/10.0	720	9.88	300	28.26	
<b>10</b>	3600	230/460	215HP	M884	215TTFW7317		\$2,968	S5	86.5	24.0/12.0	450	9.88	160	22.66	
	1800	230/460	215HP	M885	215TTFW7044		\$2,445	S5	88.5	25.0/12.5	560	9.88	158	23.91	
	1200	230/460	256HP	M886	256TTFNA7090		\$3,351	S5	87.5	27.0/13.5	720	9.88	420	28.26	
<b>15</b>	1200	230/460	284HP	M890	284TTFPA17081		\$3,907	S5	86.5	41.0/20.4	800	9.88	400	28.88	
<b>20</b>	3600	230/460	256HP	M892	256TTFNA7013		\$3,083	S5	89.5	49.0/24.5	520	9.88	413	28.26	
	1200	230/460	286HP	M894	286TTFPA17079		\$4,748	S5	87.5	52.5/26.2	800	9.88	438	27.38	
<b>25</b>	1800	230/460	284HP	M897	284TTFPA18035		\$3,710	S5	89.5	66.0/33.0	700	9.88	466	29.31	
	1200	230/460	324HP	M898	324TTFPA17078		\$5,556	S5	91.7	67.0/33.5	1000	16.38	610	33.09	
	900	230/460	326HP	M899	326TTFPA7406		\$6,627	S5	90.2	73.0/36.5	1100	16.38	1100	35.62	
<b>30</b>	3600	230/460	286HP	M900	286TTFPA7919		\$3,594	S5	89.5	73.0/36.5	550	9.88	550	27.38	
	1800	230/460	286HP	M901	286TTFPA17044		\$4,174	S5	90.2	77.0/38.5	700	9.88	653	30.26	
	1200	230/460	326HP	M902	326TTFPA7397		\$6,344	S5	91.7	76.0/38.0	1000	16.38	788	35.62	
<b>40</b>	3600	230/460	324HP	M904	324TTFPA7017		\$4,744	S5	91.0	96.0/48.0	600	16.38	738	34.12	
	1800	230/460	324HP	M905	324TTFPA7668		\$4,973	S5	91.7	101/50.5	800	16.38	761	33.09	
	1200	230/460	364HP	M906	364TTFFS7985		\$8,305	S5	90.2	106/53.0	1000	16.38	934	37.44	
<b>50</b>	1800	230/460	326HP	M909	326TTFPA17037		\$5,897	S5	91.7	124/62.0	800	16.38	649	33.09	
	1200	230/460	365HP	M910	365TTFFS7393		\$9,792	S5	91.0	128/64.0	1000	16.38	998	37.44	
<b>60</b>	3600	230/460	364HP	M912	364TTFFS7922		\$6,993	S5	92.4	144/72.0	600	16.38	978	37.44	
	1800	230/460	364HP	M913	364TTFFS7945		\$7,297	S5	92.4	146/73.0	800	16.38	998	37.44	
	1200	230/460	404HP	M914	404TTFFS7685		\$11,929	S5	92.4	146/73.0	1400	16.38	1232	40.69	
<b>75</b>	1800	230/460	365HP	M917	365TTFFS7930		\$8,890	S5	93.0	180/90.0	800	16.38	1154	37.44	
	1200	230/460	405HP	M918	405TTFFS17078		\$14,029	S5	92.4	182/91.0	1400	16.38	1340	40.69	
<b>100</b>	1800	230/460	405HP	M921	405TTFFS7370		\$11,977	S5	92.4	232/116	900	16.38	1291	40.69	
	1200	230/460	444HP	M922	444TTFFS7686		\$18,701	S5	93.0	242/121	1400	16.38	1865	45.81	
<b>125</b>	1800	460	444HP	M925	444TTFFS7640		\$15,546	S5	93.6	147	1000	16.38	1756	45.81	
	1200	460	445HP	M926	445TTFN7694		\$22,607	S5	93.6	155	1400	16.38	2102	43.50	
<b>150</b>	3600	460	445HP	M928	445TTFN17002		\$20,627	S5	93.6	170	600	16.38	1780	43.50	
<b>200</b>	1800	460	445HP	M933	445TTFN7360		\$26,535	S5	94.5	230	1000	16.38	2290	43.50	

EXPORT

# MOD CENTRAL - Motor Modifications

## Mod Central

Marathon Electric offers the capability to modify stock motors in a matter of days to meet our customer's special needs. Mod Central is centrally located in the motor industry's largest Distribution Center in Indianapolis, Indiana. This state-of-the-art facility stocks a vast array of motors and accessories along with a staff of skilled technicians who provide the highest quality of service. If you need motor modifications on 20 motors or less and want to avoid special engineering and manufacturing schedules, call Marathon Electric and take advantage of our **MOD CENTRAL** Motor Modification Program.

## Lead-Time

All lead-times indicated are subject to availability of the stock motors and parts at the time of order placement. If a stock motor is shipped from a remote warehouse to Indianapolis for modification, the cost of the inbound freight will be added to the price of the modified motor and the delivery of the modified motor will be extended by the inbound transit time. **(Lead-times in working days are calculated from normal business hours excluding holidays and weekends and do not include the day the purchase order is received.)** Large quantities may require additional lead-time.

## Mod Central Hours

The Modification Center is open from 7:00 a.m. to 5:00 p.m. CST Monday through Friday.

## How to Order

All modification list prices include the parts necessary to complete the modification, but do not include the price of the motor. You must add the net price of the motor to the net price of the modification(s) to calculate the total price of the modified motor.

For example, to add a C-Face Kit and Thermostats to Catalog Motor U633, you would calculate the total price as follows:

Modification MOD2I, add C-Face to 254T-256T Frame motor . . . . .	\$317 list
Modification MOD14Q, add thermostats to 254T-256T Frame motor . . . . .	\$211 list
<b>TOTAL</b> . . . . .	<b>\$528 list</b>

Add the net price of U633 (\$942 list price x your motor multiplier) to the net adder for the modifications (\$528 x your Mod Center multiplier, S4) to find the total net price for the modified motor.

## Freight Terms

Standard terms and conditions apply.

## Exceptions

Some modifications do not apply to explosion proof motors.

## Discount Multiplier

Discount symbol S4 applies to all list prices, except where noted.

## Cancellation Policy

If a Mod Central order is cancelled after the motor is modified but before it ships, a cancellation charge of double the modification charge will be invoiced to the customer. Any Mod Central order cancelled before modifications are completed, is subject to a cancellation charge of 25% of the total modification charges for that item.

**Once shipped, modified motors may not be returned for credit or restocking.**

MOD CENTRAL



# MOD CENTRAL - Motor Modifications

MODIFICATION DESCRIPTION	MODIFICATION NUMBER	PRODUCT	FRAME	LEAD-TIME DAYS*
<b>Altitude/Ambient</b>				
▪ AC Motor Altitude Re-Rating	MOD7	All Non-EXP	48-449T	2
▪ AC Motor Ambient Re-Rating	MOD7	All Non-EXP	48-449T	2
▪ AC Motor Altitude/Ambient Re-Rating	MOD7	Explosion Proof	143T-449T	2
<b>Assembly (see Mounting)</b>				
<b>Bearings</b>				
▪ Convert Ball to Roller (Drive End)	MOD18	TEFC	364T-449T	3
▪ Convert Roller to Ball (Drive End)	MOD18	TEFC	444T-449T	2
▪ Sealed Bearing	MOD18	All Non-EXP	143T-449T	Call
▪ Insulated Bearing	MOD18	Non Div 1 or 2	143T-449T	Call
<b>Blowers</b>				
▪ Axial Blower	MOD19	TEFC	213T-449T	3
<b>Brackets</b>				
▪ C-Face Non-Explosion Proof	MOD2	All Non-EXP	56-449T	2
▪ C-Face Explosion Proof	MOD2	Explosion Proof	56,254T-449T	Call
▪ C-Face IEEE 841	MOD2	All Non-EXP	143T-449T	2
▪ D-Flange	MOD17	All Non-EXP	254T-365T	Call
▪ B14 FT Flange (IEC C-Face)	MOD55	IEC	63-160	2
▪ B5 FF Flange (IEC D-Flange)	MOD55	IEC	63-225	2
<b>Brake Motors</b>				
▪ Brake Motors-Single Phase	MOD3	TEFC	56C	3
▪ Brake Motors-Three Phase	MOD3	TEFC	56C-145TC	3
▪ Brake Motors-Inverter Duty	MOD3	TENV	56C-326TC	3
▪ Electrical Modifications-Brake Coil	MOD3	Brake Motors	56-256TC	5
<b>Conduit Box</b>				
▪ Rotate Conduit Box Lead Opening	MOD56	All Non-EXP	143T-449T	2
▪ Convert to Cast Iron	MOD56	All Non-EXP	143T-326T	2
▪ Auxiliary Box (Condulet)	MOD56	All Non-EXP	182T-5013L	Call
<b>Drains</b>				
▪ Condensation Drain Holes	MOD21	All Non-EXP	143T-449T	2
▪ Brass Drain & Breather	MOD21	All Non-EXP	143T-449T	2
<b>Drip Covers</b>				
▪ Canopy Cover	MOD4	ODP, TEFC	48-256T	2
<b>Encoders</b>				
▪ Avtron AV56 - Black Max® / Blue Max®	MOD22	TENV, TEBC	56-449T	2
▪ Avtron HS25A & HS35A	MOD22	TENV, TEBC	56-449T	2
▪ Avtron M56/M85 - Black Max®/ Blue Max® brake motors	MOD24	TENV	143T-256T	2
▪ Northstar SL56 - Black Max®/Blue Max®	MOD22	TENV, TEBC	56-449T	2
▪ Northstar SL56/SL85 - Black Max®/ Blue Max® brake motors	MOD24	TENV	143T-256T	2
▪ Dynapar HS20, HS35R, & HSD38 - Black Max® / Blue Max®	MOD22	TENV, TEFC, TEBC	56-449T	2
▪ BEI HS35 - Black Max®/Blue Max®	MOD31	TENV, TEFC, TEBC	56-449T	2
▪ Stub Shaft (XRI®-SD & XRI®-841, TEFC only)	MOD42	TEFC	182-449T	2
<b>Fan</b>				
▪ Oversized fan (see Inverter Duty modification)	MOD43	TEFC	213T-449T	2
▪ Fan Removal	MOD44	All Non-EXP	56-449T	2
<b>Frequency</b>				
▪ Frequency Re-Rate 60 Hz to 50 Hz	MOD7	All	56-449T	1
<b>Grease/Fittings</b>				
▪ Grease Relief Fittings	MOD15	All Non-EXP	143T-449T	2
▪ Zerk Fittings (Cast Iron Motors)	MOD15	All Non-EXP	182T-449T	2
▪ Low Temperature Grease	MOD15	All	48-449T	2
▪ High Temperature Grease	MOD15	All	48-449T	2

\*Lead-time days does not include the day order is received

# MOD CENTRAL - Motor Modifications

MODIFICATION DESCRIPTION	MODIFICATION NUMBER	PRODUCT	FRAME	LEAD-TIME DAYS*
<b>Grounding</b>				
▪ Conduit Box Grounding Lug	MOD20	All	56-449T	2
▪ On-Frame Grounding (Cast Iron Motors)	MOD20	All	143T-449T	2
▪ Shaft Grounding Ring	MOD20	Call	143T-449T	2
<b>Inverter Duty Motors</b>				
▪ Variable Torque with Thermostats	MOD25	All	143T-449T	2
▪ Constant Torque with Thermostats	MOD26	All	143T-449T	2
▪ Constant Torque	MOD43	All	143T-449T	2
<b>Leads</b>				
▪ Reconnect Leads	MOD9	All	48-449T	2
▪ Remark Leads	MOD33	All	48-449T	2
▪ Longer Leads - Up to 24"	MOD33	All Non-EXP	48-449T	2
<b>Mounting/Assembly (Example: F1 to F2)</b>				
▪ Convert to Floor, Top, Ceiling, or Wall	MOD1	All Non-EXP	143T-449T	2
▪ Convert to Floor, Top, Ceiling, or Wall	MOD39	Explosion Proof	143T-449T	2
▪ Adjustable Bases	MOD39	All	143T-449T	2
<b>Nameplates / Markings</b>				
▪ Replacement Nameplate	MOD7	All	48-5013L	1
▪ Stainless Steel Nameplate	MOD7	All	48-5013L	1
▪ Separate Nameplate for Customer Data	MOD7	All	48-5013L	2
▪ Additional Data on Nameplate	MOD7	All	48-5013L	1
▪ CE Marking	MOD7	All	48-449T	2
▪ Rotation Arrow	MOD7	Single Phase	48-256T	1
<b>Packaging</b>				
▪ Heat Treated Pallet	MOD29	All	48-449T	3
<b>Paint</b>				
▪ Repaint to a Marathon stock color	MOD8	All	48-5013L	2-3
<b>Service Factor</b>				
▪ AC Motor Service Factor Re-Rating	MOD7	All Non-EXP	48-449T	1
<b>Severe Duty Construction</b>				
▪ Cast Iron Fan Cover and Conduit Box	MOD16	All Non-EXP	143T-449T	2
<b>Shaft Grounding Ring (see Grounding)</b>				
<b>Shaft Modifications</b>				
▪ Drill & Tap Hole	MOD42	All	56-449T	3
▪ TS Shaft	MOD42	All	284T-449T	2
▪ Mill Flat on Shaft	MOD42	All	56-184T	2
▪ Stub Shaft Kit	MOD42	TEFC	182T-449T	2
<b>Space Heaters</b>				
▪ Non Explosion Proof	MOD12	All Non-EXP	56-449T	2
▪ Explosion Proof	MOD41	Explosion Proof	56-449T	2
▪ IEC Frames	MOD12	IEC	100-250	2
<b>Terminal Blocks</b>				
▪ Terminal Block	MOD57	All Non-EXP	180-449T	Call
<b>Thermal Protection</b>				
▪ Thermostats - Windings	MOD14	All	56-449T	2
▪ Thermistors - Windings	MOD14	All	143T-449T	2
<b>Weatherproofing / Special Service</b>				
▪ Tropical Anti-Fungus Treatment	MOD5	All	48-449T	2
▪ Ford EM-1 Motors	MOD48	TEFC XRI®-SD	143T-449T	2
▪ Division 2 Motors (CSA Certified)	MOD49	Blue Chip®/XRI®	143T-449T	Call

\*Lead-time days does not include the day order is received

# MOD CENTRAL - Stock Motors Only

## Mult. Symbol is S4 (except as noted)

Contact Marathon Electric for all modification services on Explosion Proof and Blower (TEBC) motors.

### NEMA MOTORS

DESCRIPTION	LIST PRICE												
	MOD #	48	56	143-145	182-184	213-215	254-256	284-286	324-326	364-365	404-405	444-445	447- 449
Altitude / Ambient	7	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114
<b>Bearings</b>													
Convert Ball to Roller (Drive End)	18	-----	-----	-----	-----	-----	-----	-----	-----	\$1,251	\$1,251	\$1,700	\$1,700
Convert Roller to Ball (Drive End)	18	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	\$1,700	\$1,700
Shielded or Sealed Bearings (per Motor)	18	\$227	\$227	\$227	\$302	\$302	\$416	\$530	\$719	\$1,246	\$1,246	\$1,700	\$1,700
Insulated Bearings (per Motor)	18	-----	-----	\$530	\$605	\$605	\$1,760	\$1,892	\$1,892	\$1,998	\$2,042	\$2,164	\$2,370
<b>Blowers</b>													
Axial Blower	19	-----	-----	-----	-----	\$1,914	\$2,043	\$2,336	\$2,701	\$3,320	\$3,813	\$4,014	\$4,561
<b>Brackets*</b>													
C-Face (Non-Explosion Proof)	2	-----	\$207	\$207	\$320	\$320	\$480	\$800	\$1,198	\$1,198	\$1,198	\$1,998	\$1,998
C-Face (Explosion Proof)	2	-----	\$343	-----	-----	-----	\$792	\$1,318	\$1,799	\$2,068	\$2,068	\$3,297	\$3,828
C-Face (IEEE 841)	2	-----	-----	\$308	\$474	\$474	\$705	\$1,093	\$1,618	\$1,618	\$1,618	\$2,639	\$2,639
D-Flange	17	-----	-----	-----	-----	-----	\$661	\$1,144	\$1,398	\$1,538	-----	-----	-----
<b>Brakes</b>													
3 lb-ft brakes for TEFC motors	3	-----	\$647	\$647	-----	-----	-----	-----	-----	-----	-----	-----	-----
6 lb-ft brakes for TEFC motors	3	-----	\$727	\$727	-----	-----	-----	-----	-----	-----	-----	-----	-----
10 lb-ft brakes for TEFC motors	3	-----	\$847	\$847	-----	-----	-----	-----	-----	-----	-----	-----	-----
Vertical Mounting - Above or Below	3	-----	-----	-----	-----	\$567	\$567	-----	-----	-----	-----	-----	-----
6 lb-ft brakes for Black Max (TENV) motors	3	-----	\$734	\$734	\$734	\$734	-----	-----	-----	-----	-----	-----	-----
10 lb-ft brakes for Black Max (TENV) motors	3	-----	\$892	\$892	\$892	\$892	\$892	\$892	\$892	-----	-----	-----	-----
<b>Conduit Box</b>													
Rotate Conduit Box Lead Opening	56	-----	-----	\$145	\$145	\$145	\$145	\$145	\$145	\$145	\$145	\$145	\$145
Convert to Cast Iron	56	-----	-----	\$166	\$181	\$181	\$200	\$216	\$250	-----	-----	-----	-----
Auxiliary Box (Condulet)	56	-----	-----	-----	\$250	\$250	\$332	\$332	\$332	\$499	\$499	\$499	\$499
<b>Drains</b>													
Condensation Drain Holes	21	-----	-----	\$171	\$171	\$171	\$191	\$191	\$191	\$191	\$191	\$191	\$191
Brass Drain & Breather	21	-----	-----	\$182	\$182	\$182	\$326	\$326	\$326	\$326	\$326	\$326	\$326
<b>Drip Cover</b>													
Canopy Cover (ODP & TEFC Motors)	4	\$167	\$167	\$167	\$167	\$220	\$330	-----	-----	-----	-----	-----	-----
<b>Encoders (NOTE: Multiplier Symbol E3)</b>													
Avtron AV56	22	-----	\$2,283	\$2,283	\$2,283	\$2,283	\$2,283	\$2,283	\$2,283	\$2,283	\$2,283	\$2,283	\$2,283
Avtron HS25A	22	-----	\$1,064	\$1,064	\$1,064	\$1,064	\$1,064	\$1,064	-----	-----	-----	-----	-----
Avtron HS35A	22	-----	\$1,446	\$1,446	\$1,446	\$1,446	\$1,446	\$1,446	\$1,446	\$1,446	\$1,446	\$1,446	\$1,446
Avtron M3	22	-----	\$2,800	\$2,800	\$2,800	\$2,800	\$2,800	\$2,800	\$2,800	\$2,800	\$2,800	\$2,800	\$2,800
Avtron HS35M	22	-----	\$1,674	\$1,674	\$1,674	\$1,674	\$1,674	\$1,674	\$1,674	\$1,674	\$1,674	\$1,674	\$1,674
NorthStar SL56	22	-----	\$2,283	\$2,283	\$2,283	\$2,283	\$2,283	\$2,283	\$2,283	\$2,283	\$2,283	\$2,283	\$2,283
Dynapar HS20	22	-----	\$672	\$672	\$672	\$672	\$672	\$672	-----	-----	-----	-----	-----
EPC 260	22	-----	\$672	\$672	\$672	\$672	\$672	\$672	-----	-----	-----	-----	-----
Dynapar HS35R	22	-----	\$1,446	\$1,446	\$1,446	\$1,446	\$1,446	\$1,446	\$1,446	\$1,446	\$1,446	\$1,446	\$1,446
NorthStar HSD38	22	-----	-----	-----	-----	-----	-----	\$1,446	\$1,446	\$1,446	\$1,446	\$1,446	\$1,446
BEI HS35	31	-----	\$1,446	\$1,446	\$1,446	\$1,446	\$1,446	\$1,446	\$1,446	\$1,446	\$1,446	\$1,446	\$1,446
Turck A02H	-----	-----	-----	-----	-----	-----	-----	\$1,624	\$1,624	\$1,624	\$1,624	\$1,624	\$1,624
Encoders for Blue Max brakemotors	24	-----	-----	Refer to Blue Max Brakemotor Section				-----	-----	-----	-----	-----	-----
Stub Shaft (XRI®-SD & XRI®-841, TEFC only)	42	-----	-----	-----	\$403	\$403	\$403	\$403	\$403	\$403	\$403	\$403	\$403
<b>Fan</b>													
Oversized fan (Inverter Duty)	43	-----	-----	-----	-----	\$230	\$263	\$263	\$263	\$296	\$329	\$329	\$329
Fan Removal	44	-----	\$145	\$145	\$182	\$182	\$217	\$217	\$217	\$254	\$254	\$254	\$254
<b>Frequency</b>													
Re-Rate 60Hz to 50Hz	7	-----	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114
<b>Grease/Fittings</b>													
Grease Relief Fittings	15	-----	-----	\$174	\$174	\$174	\$174	\$174	\$174	\$174	\$174	\$174	\$174
Zerk Fittings (Cast Iron Motors)	15	-----	-----	-----	\$276	\$276	\$276	\$276	\$276	\$276	\$276	\$276	\$276
Low Temperature Grease	15	\$461	\$461	\$461	\$816	\$816	\$816	\$816	\$816	\$1,092	\$1,461	\$1,461	\$1,461
High Temperature Grease	15	\$461	\$461	\$461	\$816	\$816	\$816	\$816	\$816	\$1,092	\$1,461	\$1,461	\$1,461
<b>Grounding</b>													
Conduit Box Grounding Lug	20	-----	\$105	\$105	\$118	\$118	-----	-----	-----	-----	-----	-----	-----
On-Frame Grounding (Cast Iron Motors)	20	-----	-----	\$145	\$158	\$158	\$239	\$239	\$239	\$334	\$334	\$334	\$334
Shaft Grounding Ring	20	-----	\$454	\$507	\$524	\$543	\$783	\$818	\$906	\$1,093	\$1,194	\$1,526	\$1,526
<b>Inverter Duty Motors</b>													
Variable Torque (R140)	25	-----	-----	\$278	\$278	\$278	\$278	\$278	\$278	\$278	\$278	\$278	\$278
Constant Torque (fan chg, t-stats, re-nameplate)	26	-----	-----	\$278	\$278	\$278	\$441	\$441	\$441	\$441	\$542	\$542	\$542
Constant Torque (R164, fan chg, re-nameplate)	43	-----	-----	\$230	\$230	\$230	\$263	\$263	\$263	\$296	\$329	\$329	\$329
<b>Leads</b>													
Reconnect Leads (Non-Explosion Proof)	9	\$168	\$168	\$168	\$249	\$249	\$439	\$439	\$439	\$575	\$575	\$575	\$575
Reconnect Leads (Explosion Proof)	9	-----	\$271	\$271	\$417	\$417	\$562	\$562	\$562	\$709	\$709	\$709	\$709
Remark Leads	33	\$176	\$176	\$176	\$176	\$176	\$176	\$176	\$176	\$176	\$176	\$176	\$176
Longer Leads - Up to 24"	33	\$138	\$138	\$138	\$207	\$207	\$362	\$362	\$362	\$507	\$507	\$507	\$507

\*Addition of C-Face Kits may result in non-NEMA "BA", dimension. For the resulting "BA" dimension consult chart found in modification section

Continued on next page.

# MOD CENTRAL - Stock Motors Only

**Mult. Symbol is S4 (except as noted)**

Contact Marathon Electric for all modification services on Explosion Proof and Blower (TEBC) motors.

DESCRIPTION	LIST PRICE												
	MOD #	48	56	143-145	182-184	213-215	254-256	284-286	324-326	364-365	404-405	444-445	447- 449
Mounting/ Assembly (Ex. F1 to F2)													
Non-Explosion Proof	1	-----	-----	\$209	\$209	\$209	\$278	\$278	\$278	\$347	\$347	\$347	\$347
Explosion Proof	39	-----	-----	\$487	\$487	\$487	\$555	\$555	\$555	\$626	\$626	\$626	\$626
Adjustable Motor Bases	39	-----	-----	\$283	\$300	\$316	\$374	\$416	\$526	\$616	\$825	\$964	\$1,107
Nameplates / Markings													
Replacement Nameplate	7	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114
Stainless Steel Nameplate	7	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114
Separate Nameplate for Customer Data	7	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114
Additional Data on Nameplate	7	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114
CE Marking	7	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114
Rotation Arrow	7	\$114	\$114	\$114	\$114	\$114	\$114	-----	-----	-----	-----	-----	-----
Packaging													
Heat Treated Pallets (Air or Ground Freight)	29	\$60	\$60	\$60	\$60	\$150	\$150	\$290	\$290	\$290	\$290	\$290	\$290
Paint													
Repaint to a Marathon Stock Color	8	\$211	\$211	\$211	\$211	\$211	\$263	\$263	\$263	\$461	\$461	\$461	\$592
Service Factor													
AC Motor Service Factor Re-Rating	7	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114	\$114
Severe Duty Construction													
Cast Iron Fan Cover and Conduit Box	16	-----	-----	\$185	\$275	\$302	\$439	\$616	\$703	\$530	\$530	\$530	\$530
Shaft Modifications													
Drill & Tap Hole	42	-----	\$174	\$174	\$197	\$257	\$316	\$316	\$458	\$507	\$572	\$724	\$724
TS Shaft	42	-----	-----	-----	-----	-----	-----	\$1,579	\$1,579	\$1,711	\$1,911	\$1,911	\$1,911
Mill Flat on Shaft	42	-----	\$174	\$174	\$197	-----	-----	-----	-----	-----	-----	-----	-----
Stub Shaft (XRI®-SD & XRI®-841,TEFC only)	42	-----	-----	-----	\$403	\$403	\$403	\$403	\$403	\$403	\$403	\$403	\$403
Space Heaters													
Non Explosion Proof	12	-----	\$278	\$278	\$400	\$400	\$471	\$471	\$471	\$661	\$661	\$661	\$661
Explosion Proof	41	-----	\$417	\$417	\$525	\$525	\$661	\$661	\$661	\$800	\$800	\$800	\$800
Terminal Blocks													
Terminal Block	57	-----	-----	-----	\$455	\$455	\$545	\$545	\$545	\$604	\$604	\$696	\$696
Thermal Protection													
Thermostats (Non Explosion Proof)	14	-----	\$278	\$278	\$278	\$278	\$278	\$278	\$278	\$278	\$278	\$278	\$278
Thermostats (Explosion Proof Motors)	14	-----	\$556	\$556	\$556	\$556	\$556	\$556	\$556	\$556	\$556	\$556	\$556
Thermistors (Explosion Proof motors)	14	-----	-----	\$1,053	\$1,053	\$1,053	\$1,053	\$1,053	\$1,053	\$1,053	\$1,053	\$1,053	\$1,053
Thermistors (including Control Module)	14	-----	-----	\$1,391	\$1,391	\$1,391	\$1,391	\$1,391	\$1,391	\$1,391	\$1,391	\$1,391	\$1,391
Weatherproofing / Special Service													
Tropical Anti- Fungus Treatment	5	\$242	\$242	Refer to Blue Max Brakemotor Section									
Ford EM-1 Motors	48	-----	-----	\$150	\$150	\$150	\$150	\$150	\$150	\$114	\$114	\$114	\$114
Division 2 Hazardous (CSA Certified)	49	-----	\$114	\$114	\$339	\$339	\$441	\$441	\$441	\$224	\$224	\$224	\$224

MOD CENTRAL

## IEC Motors

DESCRIPTION	LIST PRICE												
	MOD #	63	71	80	90	100	112	132	160	180	200	225	250
Brackets													
FF Flange (B5)	55	\$243	\$256	\$273	\$288	\$311	\$370	\$394	\$560	\$590	\$983	\$1,475	\$1,475
FT Flange (B14)	55	\$234	\$243	\$258	\$273	\$288	\$311	\$368	\$552	-----	-----	-----	-----
Space Heaters	12	-----	-----	-----	-----	\$405	\$502	\$502	\$554	\$554	\$554	\$693	\$693
Other modifications	----	CONSULT FACTORY											

# MOD CENTRAL - Motor Modifications

## Altitude / Ambient - MOD7 (Mult. Symbol S4)

The rating of standard motors assumes operation at sea level. Listed motors are suitable for operation at altitudes up to 3,300 feet in a maximum ambient temperature of 40°C. The ambient temperature is the temperature of the cooling medium surrounding the motor. All standard motors are suitable for operation over the range of -15°C to 40°C ambient per NEMA MG-1.

## AC Motor Altitude or Ambient Re-Rating

Re-rating of a non-explosion proof motor can be done by evaluating the performance data and possibly changing the Service Factor. Contact Marathon Electric for motor capabilities prior to motor selection and modification.

## Bearings - MOD18 (Mult. Symbol S4)

Most standard motors use anti-friction deep groove Conrad type ball bearing, sized for the loads to be expected in industrial applications. Roller bearings are used on the drive end to handle heavy or overhung (radial) shaft loads.

## Ball to Roller Bearing

Roller bearings have the capability to handle higher radial loads than ball bearings, but must have minimum radial loads to operate correctly. Roller bearings must only be used on belted loads. They are not suitable for direct-coupled loads. (Marathon Electric recommends that belting data is reviewed by Engineering prior to converting any motor to roller bearing.) This option includes replacing only the standard drive end bearing with a roller bearing and locking the opposite bearing axially. Available on TEFC Blue Chip® and Blue Chip® XRI® motors. Lead-time is 3 days.

## Roller to Ball Bearing

Larger horsepower motors are stocked standard with a roller bearing on the drive end. For direct-coupled applications, a ball bearing must be installed on the drive-end. Lead-time is 2 days.

## Sealed Bearing

This modification provides the option of replacing the standard bearings in AC motors with sealed bearings and replacing the grease fittings with plugs. May not be suitable for belted applications. 250 - 449 frame, 3600RPM, no sealed bearing option. 250 - 445, 1800RPM and below, non contact sealed only. 48 - 215, All RPM's are available for sealed bearings. Consult Marathon Electric for full application details. Call for lead-time.

## Insulated Bearing

Insulated bearings are used to reduce the transmission of shaft currents. In accordance with NEMA MG1-31.4.4.3, both bearings must be insulated to protect inverter-driven motors from inverter-sourced shaft voltages. The connected load must also be insulated from the motor shaft to prevent damage to it's bearings. Per UL, insulated bearings may **not** be installed in Division 1 or Division 2 hazardous locations. Division 2 will be removed from XRI®-Severe Duty and IEEE 841 motors when this modification is performed. Call for lead-time.

## Blowers - MOD19 (Mult. Symbol S4)

Low rotational speeds, common in many vector drive applications, cause additional heat within the motor. As a result, these motors are designed as TENV or TEBC. Marathon Electric offers two types of blower units, depending upon the application requirements. The axial blower is available on Marathon's XRI® and XRI®-Severe Duty.

## Axial Blower

Most TEBC requirements are satisfied with Marathon's axial blower. The blower motor and fan are in the same (horizontal) plane as the motor drive shaft. Lead-time is 3 days.

## C-Face Brackets - MOD2 (Mult. Symbol S4)

The addition of a C-Face kit to a standard foot mount (rigid base) motor, results in a non-NEMA "BA" dimension in 143-256 Frames due to NEMA's establishment of two distinct "BA" dimensions for each of the affected frame sizes: one for rigid base motors and another for C-Face/rigid base motors. No motor manufacturer can meet both prescribed dimensions on reworked motors. The following table identifies the "BA" dimensions (defined as the distance from the center of the front foot hole to the shaft shoulder) for 143T-256T and TC frames:

\* C-Face Kit (rework) "BA" dimension is identical to foot mount "BA."

NEMA FRAME	FOOT MOUNT*	C-FACE
143T-145T	2.38"	2.75"
182T-184T	2.75"	3.50"
213T-215T	3.50"	4.25"
254T-256T	4.25"	4.75"

## D-Flange Brackets - MOD17

### (Mult. Symbol S4)

Add a D-Flange Kit to rigid base, cast iron motor. Available on Blue Chip 254T-365T and Dripproof 284T-286T ("TTDP" and "TTDC" designs). Addition of D-Flange Kit results in non-NEMA 'BA' dimension or 254T-256T. Lead time is 2 days.

## IEC Brackets - MOD55 (Mult. Symbol S4)

### B14 FT Flange (IEC C-Face)

IEC mounting arrangement with the motor flange at the drive end similar to a NEMA C-Face motor. Modification includes motor disassembly and installation of a FT Flange to a Globetrotter® motor. Lead-time is 2 days.

### B5 FF Flange (IEC D-Flange)

IEC mounting arrangement with the motor flange at the drive end similar to a D-Flange. Modification includes motor disassembly and installation of a FF Flange to Globetrotter® motor. Lead-time is 2 days.

## Brake Motors - MOD3 (Mult. Symbol S4)

Spring-set, electrically released mechanical disc brakes are available for stopping and/or holding the load. Marathon's brakes are suitable for any angle mounting. Price of modification includes brake kit and installation.



## MOD CENTRAL - Motor Modifications

MOTOR HP	BRAKEMOTOR SHAFT R.P.M.		
	LB-FT @3600	LB-FT @1800	LB-FT @1200
1/4	---	---	3
1/3	---	3	3
1/2	3	3	3
3/4	3	6	6
1	3	6	6
1 1/2	6	10	10
2	6	10	---

### Brake Selection Chart

\*\* For normal (140%) torque rating, do not apply on motors larger than 2 HP. Reduced braking torque and /or longer stopping times can result from applying an undersized brake on higher HP motors.

### Brake Motors

This modification includes the addition of a 3, 6, or 10 lb-ft brake to single or three phase, TEFC, 56 (5000-series model numbers and 143/145T Frame motors. Price of modification includes brake kit and installation. Operating voltages are 115, 208, 230, 460, and 575 volts and must be specified at time of order. Lead-time is 3 days.

### Brake Motors-Inverter Duty

This modification includes the addition of a 6 or 10 lb-ft brake to Marathon Electric's Blue Max® and Black Max® Vector Duty motors. Price of modification includes brake kit and installation. Operating voltages are 115, 208, 230, 460, or 575 volts and need to be specified at time of order. Lead-time is 3 days.

MOD NUMBER	BRAKE RATING	BRAKE SERIES	LIST PRICE PER MOTOR
MOD3X	3 FT. LB.	56,000	\$410
	6 FT. LB.		
	10 FT. LB.		
	15 FT. LB.		
MOD3Y	25 FT. LB.	87,000	\$510
	35 FT. LB.		
	50 FT. LB.		
	75 FT. LB.		
	105 FT. LB.		

### Electrical Modifications-Brake Coil (Stearns only)

Changing of brake coil allows operation of brakes at various voltages on 50 or 60 Hertz power supplies with DC supplies. Available voltage coils at 50 HZ are 110 or 110/220 volts and at 60 HZ are 115 or 115/230 volts. External brake coil lead connections will be brought out from the brake. Specify brake lead location, voltage of brake coil, frequency of supply source at time of order. Lead-time is 5 days.

### Conduit Box - MOD56 (Mult. Symbol S4)

Standard conduit box construction is based on the individual product description, e.g. severe duty motors always have a cast iron conduit box, while some standard duty motors come with stamped steel and others cast iron. Conduit boxes meet or exceed NEC 430.12 requirements for volume.

Termination of protective or monitoring devices can be provided in a separate auxiliary conduit box or conduit. Auxiliary conduit boxes are not available on explosion proof motors.

### Rotate Conduit Box Lead Opening

Standard motors have lead opening facing down toward motor base. Modifications include rotating the conduit box so the lead opening is facing the desired direction. Specify lead opening location facing conduit box. Available on non-explosion proof motors. Lead-time is 2 days.

### Convert to Cast Iron

Replacement of steel conduit box with a cast iron conduit box. This modification is available on non-explosion proof cast iron motors as Marathon's explosion proof integral stock motors come standard with a cast iron conduit box. Lead-time is 2 days.

### Auxiliary Box (Condulet)

A condulet can be added to the main motor conduit box for routing of accessory leads. Available on ODP and TEFC (non-explosion proof) motors. Call for lead-time.

### Connections - MOD35 (Mult. Symbol S4)

Motor connections consist of special cords, plugs, and switches added to the motor.

### Drains - MOD21 (Mult. Symbol S4)

Standard duty motors include a weep hole as standard, while severe duty and explosion proof motors include a brass drain/breather as standard. These are located in the drive end bracket at the lowest point.

### Condensation Drain Holes

Additional drilled holes will be made in both end brackets of TEFC motors. Not available on explosion proof motors. Lead-time is 2 days.

### Brass Drain & Breather

Combination self-draining and breather plugs are available on TEFC motors. Not available on explosion proof motors. Lead-time is 2 days.

### Drip Covers - MOD4 (Mult. Symbol S4)

Drip covers can be furnished on standard motors for extra protection from dripping liquids and falling objects when the motor is mounted in the vertical shaft down position. These covers are recommended on all open dripproof and totally enclosed motors for vertical shaft down operation. These covers have no vertical lifting provisions provided.

### Canopy Cover (ODP and TEFC Motors)

Modification includes installation of a sheet metal drip cover to the motor for vertical shaft down mounting. Available on rolled steel Dripproof motors through 256T frame and select TEFC motors. Lead-time is 2 days.

# MOD CENTRAL - Motor Modifications

## Encoders - MOD22, MOD24, MOD31

### (Mult. Symbol E3)

These electrical devices sense rotor speed and direction providing feedback to a control device. An encoder is a feedback device that translates mechanical motion into an electrical signal. A cable is connected from the encoder to the variable frequency drive to provide this feedback. Various mechanical provisions on the motor are required to attach the encoder. These may include C-Face on the non-drive end of the motor and special shaft extension. Various resolutions are available. All encoders offered have quadrature signal with line driver output.

Encoders can be mounted on Black Max® and Blue Max® 2000 Vector Duty motors, TENV 56 through 286T Frame, TEBC construction in 284T through 449T Frame.

## Stub Shaft MOD 42 (Mult Symbol 54)

Add Stub Shaft to Fan Cooled XRI-SD, XRI-841 (182-449 Frames) to accommodate addition of encoder on opposite drive end of motor. Lead time 2 days.

## Fan - MOD44 (Mult. Symbol S4)

Marathon Electric's XRI® Severe Duty and IEEE841 motors have non-sparking fans made with, high-temperature, reinforced corrosion resistant plastic that is impervious to chemical attack and has been specially designed for motor applications. All motors utilize bi-directional cooling fans.

## Fan Removal

TEFC to TEAO. Convert a motor from totally enclosed, fan cooled construction to totally enclosed, air-over by removing fan cover, fan, and cutting off the fan end shaft. The modified motor must be mounted in the air stream of the driven fan for cooling purposes. The customer is responsible for providing adequate airflow over the motor. Lead-time is 2 days.

## Frequency - MOD7 (Mult. Symbol S4)

Most motors commonly operate on 60 hertz (HZ) within North America. However, 50 hertz systems are common in other countries.

## Frequency Re-Rate 60 HZ to 50 HZ

Marathon Electric's standard motors rated at 60 HZ may be operated at 50 HZ at reduced voltage and horsepower or Service Factor. A label containing specific re-rating information will be attached to the motor. Frame size is subject to change. Leadtime is 1 day.

## Grease / Fittings - MOD15 (Mult. Symbol S4)

Standard grease is Exxon Polyrex® EM with a bearing operating temperature range of -30° to +150°C for ball and roller bearings. Devices for installing grease into the motors, such as zerk fittings, are available.

## Grease Relief Fittings

Install standard grease relief fitting on motor. Grease relief fittings serve as an outlet to equalize pressure in the motor. Not available on explosion proof motors. Lead-time is 2 days.

## Zerk Fittings (Cast Iron Motors)

Replace standard grease plugs on motors with zerk fittings. XRI® Severe Duty and IEEE841 motors come with zerk fittings as standard equipment. Not available on explosion proof motors. Lead-time is 2 days.

## Low Temperature Grease

Bearing grease may be changed to allow for a lower operation range. The motor bearings and end bells are purged and repacked with Beacon 325 grease or equivalent with a temperature range of -60°C to +120°C. Call for lead-time.

## High Temperature Grease

Bearing grease may be changed to allow for a higher operating range. The motor bearings and end bells are purged and repacked with Dow Corning DC44M grease or equivalent with a temperature range of -40° to +204°C. Call for lead-time.

## Grounding - MOD20 (Mult. Symbol S4)

All motors 48 to 449T Frame have grounding provisions per NEMA and NEC Standards. Explosion proof motors are permitted to have a frame ground, but electrical ground in conduit box must also be connected.

## Conduit Box Grounding Lug

Add clamp-type grounding lug in the conduit box. Lead-time is 2 days.

## On-Frame Grounding (Cast Iron Motors)

Addition of drilled and tapped hole on conduit box side of frame with installation of grounding lug. Available on non-explosion proof cast iron ratings only. Lead-time is 2 days.

## Shaft Grounding Brush

Shaft grounding rings are recommended (NEMA MG1 31.4.4.3) as an effective means of bearing protection for motors operated from inverter power. One ring is adequate to bleed down inverter-sourced shaft voltages, thereby protecting both bearings for motors as large as 5011 frame. May not be installed on motors used in Division 1 or Division 2 hazardous locations. Does not fit all motor types. Contact factory for lead-time.

## Inverter Duty Motors - MOD25, MOD26, and MOD43 (Mult. Symbol S4)

"Inverter Duty" describes a class of motors that are capable of operation from a variable frequency drive. Many Marathon general purpose motors are suitable for most variable torque and some limited constant torque applications.

These motors do not have provisions for mounting encoders, but are suitable for use with volts/hertz or open loop vector controls. As required under Federal law, these motors comply with EPAct efficiencies when operating from utility power.

# MOD CENTRAL - Motor Modifications

## INV. DUTY (LEADTIME 2 DAYS)

Mod #	Appl.	Mtr. Type	Mod
25	Variable Torque	Any	Add thermostats, re-nameplate
26	10:1 CT	EPAct TEFC	Oversized fan, Add thermostats, re-nameplate
	20:1 CT	XRI® TEFC	
43	10:1 CT	EPAct TEFC	Oversized fan, re-nameplate
	20:1 CT	XRI® TEFC	

Operation of motor on VFD exempts motor from Epact mandated efficiency levels.

### Leads - MOD9, MOD13, MOD33, and MOD40 (Mult. Symbol S4)

All motors are provided with standard leads of ample length for easy connection in the conduit box to the power leads. Lead size and material are dependent upon the class of insulation system in the motor and the current capacity required.

### Reconnection - MOD9

Reconnect dual voltage 9-lead or 12-lead motors to a 3-lead single voltage. Specify desired voltage when ordering. On single phase motors, specify rotation.

\*Part Winding Start and Star-delta connections are excluded.

### Remark Leads - MOD33

Using cloth markers, remark leads with numbers or letters. Please specify markings. Lead-time is 2 days.

### Longer Leads - MOD33

Extend leads up to two feet longer than standard by splicing. Splice will be visible in conduit box. Not available on explosion proof motors. Lead-time is 2 days.

### Mounting/Assembly - MOD1 and MOD39 (Mult. Symbol S4)

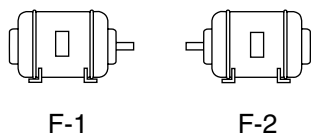
Motors listed are horizontal, foot mounted. Many stock motors can be furnished in assembly positions as illustrated. Modification includes repositioning of vents, baffles, drains, and conduit box, where applicable.

### Convert to Floor, Ceiling, or Wall Mount

Convert standard F1 mount to F2, W1, W2, W3, W4, W5, W6, W7, W8, C1, or C2 mount. The mounting symbol is required when ordering to indicate the proper mounting.

**Example:** Motor will be modified F1 to wall mounting W3.

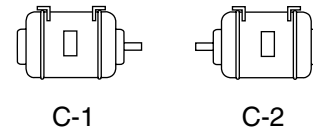
## FLOOR MOUNTING ASSEMBLIES



F-1

F-2

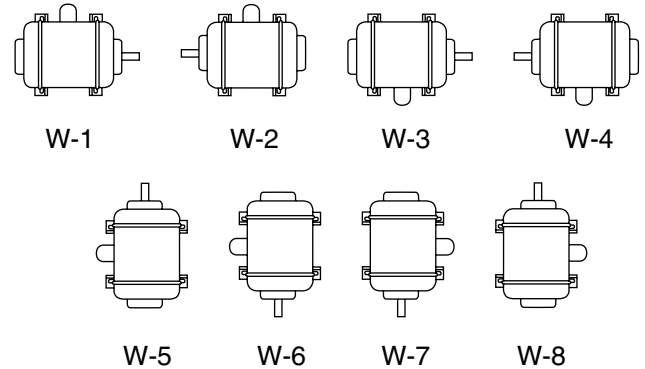
## CEILING MOUNTING ASSEMBLIES



C-1

C-2

## WALL MOUNTING ASSEMBLIES



W-1

W-2

W-3

W-4

W-5

W-6

W-7

W-8

### Mounting/Assembly MOD1 and MOD39

When motors are ordered according to a particular mounting symbol, end brackets are assembled and grease fittings are properly installed for operation with the motor in the position shown. No attempt is made to locate fittings on any particular side of the motor. Horizontal ball bearing motor assembly W5, W6, W7, and W8 are not suitable for external thrust in excess of weight of the rotor and half-coupling. Cast Iron ODP and TEFC, 360 and larger, are not suitable for vertical operation. Consult Engineering for TEFC Build Up. Lead-time is 2 days.

### Adjustable Motor Bases - MOD39

Adjustable bases are a convenient means for adjusting belt tension or may be used as mounting plates. Adjustable motor bases are bolted to fixed base of motor prior to shipping. NEMA 215T and smaller bases feature one adjusting screw. Bases on NEMA 254T and larger feature two adjusting screws. Bases are not suitable for vertical mounting. Lead-time is 2 days.

### Nameplates / Markings - MOD7 (Mult. Symbol S4)

Nameplate material is mylar or stainless steel depending on motor design and enclosure.

### Replacement Nameplate

A duplicate replacement can be provided, but will not have CSA or UL Listings unless installed to motor in a Marathon Electric facility. Lead-time is 1 day.

### Stainless Steel Nameplate

Replace existing mylar nameplate with 304 stainless steel nameplate. Lead-time is 1 day.

## MOD CENTRAL - Motor Modifications

### Separate Nameplate for Customer Data

A separate customer nameplate can be furnished. Information contained must be submitted at time of order. These additional nameplates cannot be supplied with CSA or UL Listings unless installed to motor in a Marathon Electric facility. Lead-time is 2 days.

### Additional Data on Nameplate

Motors can be re-nameplated for alternate ratings. Changes in horsepower, altitude, ambient, voltage, frequency, etc. Lead-time is 1 day.

### CE Marking

CE compliant marking can be provided for most motors rated 600V or less; this includes ODP, TEFC, TENV, TEBC enclosures. Air-over motors can be provided with the CE marking if the air velocity required to maintain proper temperatures is marked on the motors nameplate. While many stock motors contain the CE marking this marking does not apply to explosion proof motors. Lead-time is 2 days.

### Rotation Arrow

All motors utilize bi-directional cooling fans. Specify rotation facing shaft extension on order entry form. Available on Single Phase only. Lead-time is 1 day.

### Packaging - MOD29 (Mult. Symbol S4)

ISPM-15 requires the use of heat-treated wooden packaging materials when shipping into all foreign countries (a temporary exemption exists for Canada). Modification includes replacement of wooden pallet with heat-treated pallet. Does not include export crating for ocean freight (contact factory for export packaging cost).

### Paint - MOD8 (Mult. Symbol S4)

The standard paint finish is a two-coat paint system. The first coat is a rust-inhibitive primer applied to protect the castings during storage and manufacturing. The second coat is a powder coat on 48-140 frame, enamel on non-severe duty motors, or a 2-part epoxy on severe duty 180-5000 frame motors.

Special paints and color options are available if compatible and reviewed by application engineering. Paint chips and material safety data sheets are required.

### Repaint to a Marathon Stock Color

Repaint motor to another Marathon Electric stock paint color. Colors include: Marathon Electric Blue Chip® blue, PowerWash™ white, farm duty black, Fire Pump red, light gray, or dark gray. Specify color on order. Leadtime on enamel paint is 2 days. Epoxy paint requires a 3 day lead-time.

### Screens - MOD11 (Mult. Symbol S4)

Corrosion resistant screens can be furnished over the air intake and discharge openings of cast iron dripproof motors. Dripproof motors equipped with these screens conform to the dripproof guarded definition appearing in NEMA MG-1, Part 1.

### Service Factor - MOD7 (Mult. Symbol S4)

A multiplier that may be applied to the rated horsepower of a motor, which indicates a permissible horsepower loading at rated voltage and frequency.

### AC Motor Service Factor Re-Rating

When a 1.15 Service Factor or higher is required, please refer to the list adder. Frame size is subject to change. Not available on explosion proof motors. Lead-time is 1 day.

### Severe Duty Construction - MOD16 (Mult. Symbol S4)

This modification starts with a Marathon Blue Chip® Totally Enclosed cast iron frame motor and reworks it to all cast iron construction. With additional enhancements, the motor is prepared for a severe or harsh industrial environment. (Domestic Build Only)

Remove polypropylene fan cover and sheet metal conduit box from the motor and replace with cast iron fan cover, threaded and gasketed conduit box, apply epoxy finish to motor exterior, and add brass drain and breather. Lead-time is 2 days.

### Shaft Modification - MOD42 (Mult. Symbol S4)

Motors are furnished with a single straight shaft with sled runner keyway and a rectangular key. For motors in frames 143T through 449T, a long shaft for V-Belt drive is supplied. 2-Pole motors in frames 324 through 449 and certain other 4-Pole ratings are furnished with short shafts for direct connections. Modifications are for existing shafts only. Not applicable if a new shaft is required. Call for lead-time.

### TS Shaft

Convert "T" frame shaft to a "TS" Frame shaft. Modify motor by reducing the shaft, adding new keyway, and shortening the shaft length to the NEMA "TS" dimension. Lead-time is 2 days.

### Drill & Tap Hole

Drilled radially or in the end of the shaft. Drilled and tapped in the end of the shaft. Lead-time is 3 days.

### Mill Flat on Shaft

Mill a flat on the drive end shaft extension. Provide detail of flat with the order. Lead-time is 2 days.

### Stub Shaft MOD 42 (Mult Symbol S4)

Add Stub Shaft to Fan Cooled XRI®-SD, XRI®-841 (182-449 Frames) to accommodate addition of encoder on opposite drive end of motor. Lead time 2 days.



# MOD CENTRAL - Motor Modifications

## Space Heaters - MOD12 and MOD41 (Mult. Symbol S4)

Space heaters are used to prevent the build-up of condensation on the windings of the motor when the motor is not operating. Space heaters are typically installed on the end-turns of the coils.

## Space Heaters - ODP & TEFC - MOD12

Space heaters can be furnished on dripproof and totally enclosed motors. Heater leads are normally brought out to the motor conduit box. Heater voltage is available in three voltages for 60 Hz operation of 115, 230, or 460 volt, single-phase. Space heaters are sized per NEMA standards. Lead-time is 2 days.

## Space Heaters - IEC Frames - MOD12

Space heaters can be furnished on IEC motors. Heater leads are normally brought out to the main terminal box. Heater voltage is available in two voltages for 50 Hz operation. Lead-time is 2 days.

## Space Heaters - Explosion Proof - MOD41

Space heaters can be furnished on explosion proof motors. Heater leads are normally brought out to the motor conduit box. Heater voltage is available in three voltages for 60 Hz operation of 115, 230, or 460 volt, single-phase. Space heaters are sized per NEMA standards. Lead-time is 2 days.

## Terminal Blocks - MOD57 (Mult. Symbol S4)

Conduit box mounted terminal blocks provide for a convenient termination of power leads. The terminal blocks are sized for the proper amperage and voltage of the motor. The Globetrotter® IEC motor has IEC terminal blocks as standard.

## Terminal Block

Install terminal blocks in conduit box of NEMA motor with lead connection. Customer to advise on lead connection. Call for lead-time. Contact factory to verify capability.

## Thermal Protection - MOD14, MOD37 (Mult. Symbol S4)

Thermal protection are built in protective devices that prevent motor overheating. They work either by interrupting the power supply when the motor overheats or by incorporating a pilot device that opens the holding circuit of a magnetic starter or energizes an alarm bell or warning light.

## Thermostats - Windings - MOD14

Thermostats are mounted on the stator winding and are temperature-sensing only, with normally closed snap action contacts. These devices are 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. The standard arrangement is the 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. Class I Groups C & D / Class II Groups F & G Explosion Proof motors have hermetically sealed thermostats as standard. Lead-time is 2 days.

## Thermistors - Winding

Thermistors are small, non-linear resistance devices placed on the stator windings. As the critical temperature is reached, the resistance of the thermistor changes radically, causing operation of a control relay. The standard arrangement is Q-3 positive temperature coefficient (PTC) type on winding end-turns with leads brought out to the main motor conduit box. On IEC motors the leads are brought into a conduit adjacent to the main conduit box and includes a terminal block. As standard, 3 Texas Instrument thermistors are furnished, one per phase. Lead-time is 2 days.

## Weatherproofing/Special Service MOD5, MOD7, MOD48, MOD49, MOD58 (Mult. Symbol S4)

Weatherproofing or special service provides additional protection to windings and mechanical parts as well as special greases or modifications per industry specifications such as NEMA, IEEE, or automotive. Call for lead-time.

## Tropical Anti-Fungus Treatment - MOD5

Windings and mechanical parts coated with polyurethane for superior protection to resist tropical environments. Not available on brake motors. Lead-time is 2 days.

## Ford EM-1 Motors - MOD48

Modify Blue Chip® XRI® Severe Duty motor to meet Ford Motor's EM-1 T-Frame automotive specification. Modification requires adding ABMA bearing numbers and plugging second set of mounting holes on applicable frames. Lead-time is 2 days.

## Hazardous Duty™ Service Division 2 Hazardous Motors - MOD49

The Division 2 hazardous modification incorporates a new fan, fan guard, and nameplate on most TEFC motors. XRI®-SD and IEEE841 motors have Division 2 statement on the nameplate as standard. The nameplate will say "CSA Certified, Group I, Division 2, Groups A, B, C, and D, Temperature Code. (See chart below) Call for lead-time.

NEMA FRAME	SERVICE FACTOR	POWER SUPPLY	FREQUENCY RANGE	TEMP CODE
56-449T	1.0	SineWave	50-60Hz	T3
56-449T	1.0	PWM	3-120Hz	T2D
56-449T	1.15	SineWave	60Hz	T2B



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ACCESSORY KITS

## Accessory Kits - Multiplier Symbol S4



Complete kits with hardware necessary for converting Marathon stock rigid base motors to "C-Face" mounting with rigid base.

**Excludes Blue Chip® XRI® Dripproof stock motors, see below**

### C-Face Kits - Dripproof (Standard and EAct Efficiency)

CAT. NO.	FRAME	KIT NO.	LIST PRICE	WHERE USED (Models Containing)	WEIGHT	FOOT NOTES
A435	56	KIT 56CDR-1	\$37	a 17mm (203) bearing	3	
AG212	56	161L185AAG1	\$37	a 17mm bearing (5K Type, 30 Frame)	3	
A534	56	161L187BAG1	\$37	a 17mm bearing (5K Type, 40 Frame)	3	
A436	56-143T-145T	KIT 140TCDR-1	\$69	a 25mm (205) bearing	3	75
A535	143T-145T	161L187BCG1	\$69	a 25mm bearing (5K Type, 40 Frame)	3	75
A666	182T-184T	KIT 175691	\$102	TTDW	14	75
A606	213T-215T	KIT 210TCDW	\$143	TTDW, TBDW, or TCDW	13	75
A612	254T-256T	KIT 250TCDX	\$165	TTDX	13	75
A610	284T-286T/TS	KIT 280TCDP	\$306	TTDP or TSTDP	30	
A287	284T-286T/TS	KIT 280TCDN	\$306	TTDC/N	38	
A1287	284T-286T/TS	KIT 280TCDCA	\$306	TTDCA	45	
A613	324T-326T/TS	KIT 320TCDP	\$530	TTDC/P or TSTDC/P	43	
A216	364T-365T	KIT 360TCDS	\$673	TTDC/S	71	
A219	364TS-365TS	KIT 360TSCDS	\$673	TSTDC/S	62	
A222	404T-405T	KIT 400TCDS	\$736	TTDS	82	
A225	404TS-405TS	KIT 400TSCDS	\$736	TSTDS	89	
A228	444T-445T	KIT 440TCDS	\$1,408	TTDS	116	
A231	444TS-445TS	KIT 440TSCDS	\$1,408	TSTDS	119	
A293	447TS/449TS	KIT 440TSCDN	\$1,408	TSTDN	144	

### C-Face Kits - Blue Chip® NEMA Premium/Globetrotter Dripproof

CAT. NO.	FRAME	KIT NO.	LIST PRICE	WHERE USED (Models or Models Containing)	WEIGHT	FOOT NOTES
A600	143T-145T	KIT 175181	\$69	U244, U245, U246, U265, U758, U759, and U760	5	75
A436	143T-145T	KIT 140TCDR-1	\$69	E927, E928, and E929	3	75
A160	182T-184T	KIT 180TCD-WD	\$102	TTDB (2,4 and 6 pole)	14	
A602	213T-215T	KIT 175066	\$143	U268, U269, U763, U764, U765, and U766	18	75
A161	213T-215T	KIT 210TCD-WD	\$143	TTDB (2,4 and 6 pole)	22	
A622	254T-256T	KIT 175067	\$165	U254, U255, U767, U768, U769, and U770	27	75
A162	254T-256T	KIT 250TCD2-WD	\$165	TTDB (2 pole only)	32	
A163	254T-256T	KIT 250TCD-WD	\$165	TTDB (4 and 6 pole only)	32	
A626	284T-286T	KIT 175058	\$306	U256, U257, U771, U772, U773, and U774	32	
A164	284TS-286TS	KIT 280TCD2-WD	\$306	TSTDC (2 pole only)	38	
A165	284T-286T	KIT 280TCD-WD	\$306	TTDC (4 and 6 pole only)	38	
A627	324T-326T	KIT 175454	\$530	U775, U776, U777, U778, U798 and U799	39	
A166	324TS-326TS	KIT 320TCD2-WD	\$530	TSTDC (2 pole only)	45	
A167	324T-326T	KIT 320TCD-WD	\$530	TTDC (4 and 6 pole only)	45	
A628	364T-365T	KIT 175060	\$673	U779, U782, U783, U784, U927, and U928	56	
A629	364T-365T	KIT 175601	\$673	U1779, U1782, U1783, U1784, U1927, and U1928	56	
A216	364T-365T	KIT 360TCDS	\$673	E921	71	
A168	364TS-365TS	KIT 360TCD2-WD	\$673	TSTDC (2 pole only)	85	
A169	364T-365T	KIT 360TCD-WD	\$673	TTDC (4 and 6 pole only)	85	
A222	404T-405T	KIT 400TCDS	\$736	E922, E923, U270, and U271	82	
A225	404TS-405TS	KIT 400TSCDS	\$736	U250 and U251	89	
A228	444T-445T	KIT 440TCDS	\$1,408	U272, U273, E924, E925 and E926	116	

**All Kits Listed on This Page are Stock**

# Accessory Kits - Multiplier Symbol S4



Complete kits with hardware necessary for converting Marathon stock rigid base motors to "C-Face" mounting with rigid base. Includes Globetrotter, XRI, and Severe Duty.

**Excludes Blue Chip® XRI® IEEE-841 stock motors, available on the next page.**

## C-Face Kits - Totally Enclosed

CAT. NO.	FRAME	KIT NO.	LIST PRICE	WHERE USED	WEIGHT	FOOT NOTES
A437	56	KIT 56CFR-1	\$37	a 17mm bearing (standard frame)	3	
AG215	56	161L186AAG1	\$37	a 17mm bearing (5K Type, 30 Frame)	3	
A536	56	161L188BAG1	\$37	a 17mm bearing (5K Type, 40 Frame)	3	
A665	56	KIT 175076	\$37	Use on 56 frame XRI-NEMA Premium rolled steel models	5	
A438	56-143T-145T	KIT 140TCFR-1	\$69	a 25mm bearing or TBFR, TCFR, TTTR, or TTFR	5	75
A537	140T	161L188BCG1	\$69	a 25mm bearing (5K Type, 40 Frame)	5	75
A642	140T	KIT 175077	\$69	Use on 140 frame XRI-NEMA Premium rolled steel models	5	75
A603	143T	KIT 143TCFN	\$69	TTFN, TTTC, or TTTN	5	75,76
A655	145T	KIT 145TCFN	\$69	TTFN, TTTC, or TTTN	5	75,76
A666	182T-184T	KIT 175691	\$102	Use on 180 frame XRI-NEMA Premium rolled steel models or TTFW	14	75
A643	182T-184T	KIT 175296	\$102	Use on model numbers 182/4TTFR4026 (8-1/2"AK) and 182/4TTFR4040	14	75
A644	182T-184T	KIT 180CF8.5-1	\$102	TTTL/S, TCFL/R, TBFR, TTFC/L/R/S or THTS (Standard 8-1/2" AK dim.)	14	75
A645	182T-184T	KIT 180CF4.5-1	\$102	TTFC/L/R/S (Non-Std. 4-1/2" AK dim.)	14	75
A170	182T-184T	KIT 180TCF-WD	\$102	TTFBA	14	
A609	213T-215T	KIT 210TCFW	\$143	TTFW, or TBFW	17	75
A667	213T-215T	KIT 175844	\$143	Use on 210 frame XRI-NEMA Premium rolled steel models containing TTFW1	17	75
A204	213T-215T	KIT 210TCFL	\$143	TTFL/R or TBFL	17	75
A206	213T-215T	KIT 210TCFS	\$143	TTFC/S, THFS, TTTS and THTS (except 213/5TTFC4075)	17	75
A652	213T-215T	KIT 175068	\$143	Use on models 213TTFC4076 and 215TTFC4076	17	75
A171	213T-215T	KIT 210TCF-WD	\$143	TTFBA	22	
A209	254T-256T	KIT 250TCFL	\$165	TTFL, and THTL (254TTFL4076)	21	75
A1209	254-256T	KIT 250TCFL-R	\$165	TTFL1 and THTL1 (current frame design) (254TTFL14076)	21	75
A601	254T-256T	KIT 250TCFP	\$165	TTFC (except 254/6TTFC4076)	35	75
A284	254T-256T	KIT 250TCFNA	\$165	TTFNA, and THTNA	35	75
A239	254T-256T	KIT 250TCFPA	\$165	TTFPA, THTPA, and TSTFPA	35	75
A653	254T-256T	KIT 175191	\$165	Use on model numbers 254TTFC4076 and 256TTFC4076	21	75
A172	254T-256T	KIT 250TCF2-WD	\$165	TTFCA (2 pole only)	32	
A173	254T-256T	KIT 250TCF-WD	\$165	TTFCA (4 and 6 pole only)	32	
A611	284T-286T/TS	KIT 280TCFP	\$306	TTFC/P, THFP, TSTFP or TSTFC (except 284/6TTFC4076)	31	
A617	284T-286T/TS	KIT 280TCFPA	\$306	TTFPA, THFPA, and TSTFPA	45	
A615	284T-286T/TS	KIT 280TCFN	\$306	TTFN or TSTFN	52	
A654	284T-286T	KIT 175061	\$306	Use on model numbers 284TTFC4076 and 286TTFC4076	31	
A618	284T-286T/TS	KIT 280TCFNA	\$306	TTFNA, THFNA, or TSTFNA	55	
A174	284TS-286TS	KIT 280TCF2-WD	\$306	TSTFCA (2 pole only)	38	
A175	284T-286T	KIT 280TCF-WD	\$306	TTFC (4 and 6 pole)	38	
A214	324T-326T/TS	KIT 320TCFS	\$530	TTFS, THFS, or TSTFS	90	
A614	324T-326T/TS	KIT 320TCFP	\$530	TTFC/P, THFP, TSTFP or TSTFC	50	
A619	324T-326T/TS	KIT 320TCFPA	\$530	TTFPA, THFPA, AND TSTFPA	57	
A176	324TS-326TS	KIT 320TCF2-WD	\$530	TSTFCA (2 pole only)	45	
A177	324T-326T	KIT 320TCF-WD	\$530	TTFCA (4 and 6 pole only)	45	
A217	364T-365T	KIT 360TCFS	\$673	TTFC	105	
A395	364T-365T	KIT 360TCFSR	\$673	TTFS or THFS	105	
A396	364TS-365TS	KIT 360TSCFSR	\$673	TSTFS or TSHFS	105	
A178	364TS-365TS	KIT 360TCF2-WD	\$673	TSTFCA (2 pole only)	85	
A179	364T-365T	KIT 360TCF-WD	\$673	TTFCA (4 and 6 pole only)	85	
A223	404T-405T	KIT 400TCFS	\$736	TTFS or THFS	125	
A226	404TS-405TS	KIT 400TSCFS	\$736	TSTFS or TSHFS	125	
A229	444T-445T	KIT 440TCFS	\$1,408	TTFS or THFS	175	
A232	444TS-445TS	KIT 440TSCFS	\$1,408	TSTFS or TSHFS	105	
A620	444T-445T	KIT 440TCFN	\$1,408	TTFN or THFN	205	
A621	444TS-445TS	KIT 440TSCFN	\$1,408	TSTFN or TSHFN	200	
A623	447/9T	KIT 449TCFS	\$1,408	TTFS or THFS with ball bearings	200	
A624	447/9TS	KIT 449TSCFS-1	\$1,408	TSTFS (313 bearing), 2-Pole	200	
A625	447/9TS	KIT 449TSCFS-2	\$1,408	TSTFS (318 bearing) 4-, 6-, and 8-Pole	200	

ACCESSORY KITS

**All Kits Listed on This Page are Stock**

## Accessory Kits - Multiplier Symbol S4

Complete Kits with hardware and Inpro/Seal® necessary for converting Marathon stock IEEE-841 rigid base motors to "C-Face" mounting with rigid base.

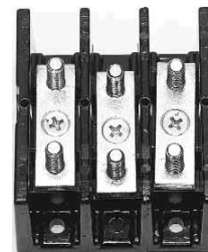
### C-Face Kits - Blue Chip® XRI® IEEE-841 Motors

CAT. NO.	FRAME	KIT NO.	LIST PRICE	WHERE USED (Models Containing)	WEIGHT	FOOT NOTES
A181	143T	KIT 143TCTN - 841	\$146	THTN	9	75,76
A262	145T	KIT 145TCTN - 841	\$146	THTN	9	75,76
A182	182T - 184T	KIT 180TCFS - 841	\$206	THTS or THFS	13	75
A183	213T - 215T	KIT 210TCFS - 841	\$278	THTS or THFS	16	75
A184	254T - 256T	KIT 250TCFNA - 841	\$318	THFNA	35	75
A185	284T - 286T	KIT 280TCFN - 841	\$596	THFN	52	
A186	284T - 286T	KIT 280TCFNA - 841	\$596	THFNA	52	
A187	324T - 326T	KIT 320TCFS - 841	\$978	THFS	89	
A188	364T - 365T	KIT 360TCFSR - 841	\$1,224	THFS	95	
A189	364TS - 365TS	KIT 360TSCFSR - 841	\$1,224	TSHFS	95	
A190	404T - 405T	KIT 400TCFS - 841	\$1,344	THFS	129	
A191	404TS-405TS	KIT 400TSCFS-841	\$1,344	TSHFS	118	
A192	444T - 445T	KIT 440TCFS - 841	\$1,869	THFS	175	
A193	444TS - 445TS	KIT 440TSCFS - 841	\$1,869	TSHFS	108	
A194	444T - 445T	KIT 440TCFN - 841	\$1,869	THFN	201	
A195	444TS - 445TS	KIT 440TSCFN - 841	\$1,869	TSHFN	199	

### Terminal Block Kits

Terminal blocks provide for a convenient termination for power leads, and are sized for the proper amperage and voltage of the motor. These kits fit domestically produced NEMA TEFC, TENV, and ODP motors equipped with cast iron conduit boxes. **Not available on frames not listed.**

CAT. NO.	FRAME	KIT NO.	LIST PRICE	WEIGHT
A1000	180-210	KIT 180-210 TERM BLK	\$101	2
A1001	250-320	KIT 250-320 TERM BLK	\$123	3
A1002	360	KIT 360 TERM BLK	\$168	5
A1003	405-445	KIT 400-445 TERM BLK	\$168	7
A1004	447/449	KIT 447/9 TERM BLK	\$243	10



**All Kits Listed on This Page are Stock**



# Accessory Kits - Multiplier Symbol S4

## IEC Mounting Kits

Complete kits with hardware necessary for converting Marathon IEC stock motors to B5 and B14 mountings.

### FT - Flange B14 Mounting Kits For Aluminum Frame Motors Only

Frame	CAT. NO.	KIT NO.	List Price	Bolt Circle "mm"	Weight
63	A561	KIT 631475	\$48	75	15
71	A562	KIT 711485	\$53	85	15
80	A563	KIT 8014100	\$59	100	25
90	A564	KIT 9014115	\$65	115	25

### FF - Flange B5 Mounting Kits For Aluminum Frame Motors Only

Frame	CAT. NO.	KIT NO.	List Price	Bolt Circle "mm"	Weight
63	A569	KIT 635115	\$53	115	15
71	A570	KIT 715130	\$62	130	15
80	A571	KIT 805165	\$67	165	25
90	A572	KIT 905165	\$71	165	3

### FT - Flange B14 Mounting Kits For Cast Iron Frame Motors Only

Frame	CAT. NO.	KIT NO.	List Price	Bolt Circle "mm"	Weight
100	A565	KIT 10014130	\$86	130	10
100	A581	KIT 175985	\$86	130	5
112	A566	KIT 11214130	\$94	130	10
112	A582	KIT 175987	\$94	130	13
132	A567	KIT 13214165	\$125	165	16
132	A583	KIT 175989	\$125	165	13
160	A568	KIT 16014215	\$245	215	30
160	A584	KIT 175991	\$308	215	15

### FF - Flange B5 Mounting Kits For Cast Iron Frame Motors Only

Frame	CAT. NO.	KIT NO.	List Price	Bolt Circle "mm"	Weight
100	A573	KIT 1005215	\$94	215	16
100	A554	KIT 175984	\$94	215	13
112	A574	KIT 1125215	\$101	215	14
112	A555	KIT 175986	\$101	215	33
132	A575	KIT 1325265	\$134	265	20
132	A556	KIT 175988	\$134	265	20
160	A576	KIT 1605300	\$254	300	33
160	A557	KIT 175990	\$254	300	32
180	A577	KIT 1805300	\$315	300	33
180	A558	KIT 175890	\$347	300	41
200	A578	KIT 2005350	\$411	350	45
200	A559	KIT 175994	\$411	350	61
225	A579	KIT 2255400	\$526	400	60
225	A580	KIT 175995	\$718	400	76

### Metric Flanges To Reduce Diameter For Aluminum Frame Motors Only

Motor Frame	New Frame Diameter	CAT. NO.	KIT NO.	Kit Only List Price	Weight
63	56	A585	KIT 175900	\$44	5
71	63	A586	KIT 175901	\$50	5
80	71	A587	KIT 175902	\$56	8
90	80	A588	KIT 175903	\$59	8

## D-Flange Kits

Complete kits with hardware necessary for converting Marathon **stock rigid base** motors to D-Flange mounting with rigid base.

CAT. NO.	FRAME	ENCLOSURE	KIT NO.	LIST PRICE	WHERE USED (Models Containing)	WEIGHT	FOOT NOTES
A647	254T-256T	TEFC	KIT 250TDFPA	\$407	TTFPA	21	97
A648	254T-256T	TEFC	KIT 250TDFNA	\$407	TTFNA	15	97
A649	254T-256T	TEFC	KIT 649R	\$407	TTFP or TTFC	39	97
A650	284T-286T/TS	DRIPPROOF	KIT 650R	\$715	TTDP, TTDC, TSTDP or TSTDC	38	
A651	284T-286T/TS	TEFC	KIT 651R	\$715	TTFP, TTFC, TSTFP or TSTFC	38	
A656	284T-286T	TEFC	KIT 280TDFNA	\$715	TTFNA	60	97
A658	324T-326T/TS	TEFC	KIT 320TDFS	\$808	TTFS, TSTFS	118	
A657	324T-326T	TEFC	KIT 320TDFPA	\$808	TTFPA or TSTFPA	83	97
A637	364T-365T	TEFC	KIT 360TDFC	\$954	TTFC	121	

Complete kits with hardware necessary for converting Marathon **stock C-Face rigid base** motors to D-Flange mounting with rigid base.

CAT. NO.	FRAME	ENCLOSURE	KIT NO.	LIST PRICE	WHERE USED (Models Containing)	WEIGHT
A630	182TC-184TC	TEFC	KIT 180TDFR	\$160	TTFR	17
A631	284TC-286TC	TEFC	KIT 280TDFP	\$716	TTFP	15
A632	324TC-326TC	TEFC	KIT 320TDFP	\$876	TTFP	71
A634	405TC	TEFC	KIT 400TDFS	\$1,194	TTFS	149

**All Kits Listed on This Page are Stock**

# Accessory Kits - Multiplier Symbol S4 (except as noted)

## Brake Kits - Single and Three Phase Motors

### Stearns Brake Kits

These kits include a brake mounted to an external cast aluminum fan guard. Designed for easy field installation on Marathon's Four-In-One motors, 56, 143 and 145 frames only.

TORQUE RATING LB-FT	LIST PRICE	115/230 VOLT		208-230/460 VOLT		575 VOLT		WEIGHT ALL
		CAT. NO.	KIT NO.	CAT. NO.	KIT NO.	CAT. NO.	KIT NO.	
3	\$398	A306	KIT 3BRK1	A301	KIT 3BRK3	A297	KIT 3BRK3A	10
6	\$469	A307	KIT 6BRK1	A302	KIT 6BRK3	A298	KIT 6BRK3A	11
10	\$580	—	—	A303	KIT 10BRK	A299	KIT 10BRKA	10

Selection Chart  
(Used to select brake size)

MOTOR HP	BRAKEMOTOR SHAFT RPM		
	LB-FT @3600	LB-FT @1800	LB-FT @1200
1/4	—	—	3
1/3	—	3	3
1/2	3	3	3
3/4	3	6	6
1	3	6	6
1.5	6	10	10
2	6	10	—

### Dings Brake Kits

These kits include a brake mounted to an external cast aluminum fan guard. Designed for easy field installation on Marathon's Four-In-One motors, 56, 143 and 145 frames only.

TORQUE RATING LB-FT	LIST PRICE	115/230 VOLT		208-230/460 VOLT		575 VOLT		WEIGHT ALL
		CAT. NO.	KIT NO.	CAT. NO.	KIT NO.	CAT. NO.	KIT NO.	
3	\$398	A1306	KIT BRK-3 115/230	A1301	KIT BRK-3 208-230/460	A1297	KIT BRK-3 575	3
6	\$469	A1307	KIT BRK-6 115/230	A1302	KIT BRK-6 208-230/460	A1298	KIT BRK-6 575	10
10	\$580	-	-	A1303	KIT BRK-10 208-230/460	A1299	KIT BRK-10 575	10

### Inverter Duty, TENV Black Max® and Blue Max® Motors - Multiplier Symbol E3

For normal (140%) torque rating, do not apply on motors larger than 2 HP. Reduced braking torque and/or longer stopping times can result from applying an undersized brake on higher HP motors.

These brake kits fit on both Black Max® and Blue Max® TENV motors (See pages 175 and 177). These can also be used together with the Double C-Face SL56 encoder to make a closed loop inverter brake motor.

TORQUE RATING LB-FT	LIST PRICE	115/208-230 VOLT		208-230/460 VOLT		575 VOLT		WEIGHT ALL
		CAT. NO.	KIT NO.	CAT. NO.	KIT NO.	CAT. NO.	KIT NO.	
6	\$715	A317	KIT BM6BRK115	A312	KIT BM6BRK	A315	KIT BM6BRK575	7
10	\$868	A318	KIT BM10BRK115	A313	KIT BM10BRK	A316	KIT BM10BRK575	7

See page 230 for encoder kit for installation between motor and brake.

### Vertical Modification Kit (Stearns 87000-series) - Multiplier Symbol E3

Includes required hardware to accommodate vertical-above or vertical-below mounting. 5HP (184) and larger.

CAT. NO.	KIT NO.	LIST PRICE	WEIGHT
A157	KIT VRT87BRK	\$420	3



### Double C-Face Coupler Brakes

ENCLOSURE - NEMA 2, IP-23 208-230/460V				ENCLOSURE - NEMA 4, IP-54 208-230/460V				ENCLOSURE - NEMA 4X, IP-55 208-230/460V				WEIGHT ALL
FOOT/POUND RATING	CAT. NO.	KIT NO.	LIST PRICE	FOOT/POUND RATING	CAT. NO.	KIT NO.	LIST PRICE	FOOT/POUND RATING	CAT. NO.	KIT NO.	LIST PRICE	
3 ft. lb.	A903	KIT 903	\$530	3 ft. lb.	A906	KIT 906	\$652	3 ft. lb.	A909	KIT 909	\$755	12
6 ft. lb.	A904	KIT 904	\$591	6 ft. lb.	A907	KIT 907	\$736	6 ft. lb.	A910	KIT 910	\$816	12
10 ft. lb.	A905	KIT 905	\$673	10 ft. lb.	A908	KIT 908	\$816	10 ft. lb.	A911	KIT 911	\$897	12

**All Kits Listed on This Page are Stock**

## Accessory Kits - Multiplier Symbol S4



### Resilient Base - (GE)

Includes base and latch straps.  
For use with motors having 2 1/4" resilient rings.

### NEMA 48 Frame, 2 1/4" Dia Rings

CAT. NO.	KIT NO.	LIST PRICE	SHELL LENGTH	FRAME SIZE	WEIGHT
AG109	161L113AAG1	\$31	5.16	32	5
AG110	161L113AAG2	\$31	5.41	33	5
AG111	161L113AAG3	\$31	5.79	35	5
AG112	161L113AAG4	\$31	6.22	36	5
AG113	161L113AAG5	\$31	6.62	37	5
AG114	161L113AAG6	\$31	7.22	38	5
AG115	161L113AAG9	\$31	7.75	39	5

### NEMA 56 Frame, 2 1/4" Dia Rings

CAT. NO.	KIT NO.	LIST PRICE	SHELL LENGTH	FRAME SIZE	WEIGHT
AG125	161L113ADG1	\$31	5.41	33	5
AG127	161L113ADG3	\$31	6.22	36, 49	5
AG128	161L113ADG4	\$31	6.62	37, 46	5
AG129	161L113ADG5	\$31	7.22	38, 49	5
AG130	161L113ADG14	\$31	7.75	39, 49	5



### Resilient Base - MEMC

Used to add a Resilient Base to models having Resilient Rings. Results in 3" shaft height. Kit includes: mounting base and 2 latch assemblies.

### 6 1/2" Dia Fan & Blower Replacement Motors

CAT. NO.	KIT NO.	LIST PRICE	FITS CATALOG NO.	FRAME SIZE	WEIGHT
AG125	161L113ADG1	\$31	P243, P245	42	5
AG127	161L113ADG3	\$31	P244, P246, P180	49	5
AG128	161L113ADG4	\$31	P184, P185	46	5

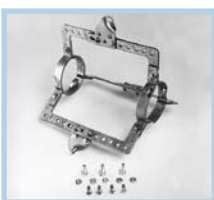
CAT. NO.	KIT NO.	LIST PRICE	RING TO RING DIMENSION	WEIGHT
A107	KIT 107-637	\$12	6.37"	2



### Resilient Mounting Kit

Used to add a resilient base to models having hubs only. 3-1/2" shaft height. Kit includes: mounting base, 2 resilient rings, 2 latch assemblies, 2 end caps and a slinger.

KIT CAT. NO.	KIT NO.	LIST PRICE	USED WITH CAT. NO.	BASE LENGTH	WEIGHT
A279	KIT 279	\$21	X500	8-5/8"	5
A280	KIT 280	\$21	X501, X511, X208	9-1/8"	5
A281	KIT 281	\$47	X507, X509	11-5/8"	5
A282	KIT 282	\$41	X503	10-5/8"	5
A283	KIT 283	\$41	X502, X207	9-5/8"	5
A308	KIT 308	\$44	X206	10-1/8"	5



### Resilient Mount Kit

Fits 48 Frame motors with 2-1/2" diameter resilient rings. Available in 3 sizes to fit 9", 10" and 12" blowers.

CAT. NO.	KIT NO.	LIST PRICE	SIZE	WEIGHT
A240	KIT 240	\$40	9"	5
A241	KIT 241	\$60	12"	5
A242	KIT 242	\$49	10"	5

**All Kits Listed on This Page are Stock**

# Accessory Kits - Multiplier Symbol S4

## Split Mounting Rings

Used for adapting a 2-1/4" Resilient Mounting Ring to 2-1/2". Kit includes: 4 split rings.



CAT. NO.	KIT NO.	LIST PRICE	WEIGHT
A104	KIT 104	\$8	1

## Resilient Ring Kit

Used to mount Resilient Rings onto Hubbed PSC Brackets. Kit includes: 2 rubber resilient rings and 4 split rings.



CAT. NO.	KIT NO.	LIST PRICE	WEIGHT	NOTES
A110	KIT 110	\$11	1	2-1/4" (48 frame)
A114	KIT 114	\$16	1	2-1/2" (56 frame)

## Rubber Mounting Hardware

Used for mounting the resilient base to a resilient ring. Kit includes: 4 clamps, 2 screws, and 2 nuts.



CAT. NO.	KIT NO.	LIST PRICE	WEIGHT	NOTES
A112	KIT 112	\$10	1	56 Frame
A113	KIT 113	\$10	1	48 Frame
AG195	161L110AA1	\$10	1	2 1/2" dia; 30 or 40
A518	161L110AA4	\$10	1	2 1/2" dia; 40

## 48 Frame Lug Mounts Kits



**A249**  
Single Strap,  
Dual Slot  
2" L, 1/4" & 3/4" W  
\$35



**A250**  
Double Strap,  
Dual Slot  
2" L, 1/4" & 3/4" W  
\$35



**A251**  
Double Strap,  
Dual Slot  
4" L, 1/4" & 3/4" W  
\$35



**A252**  
Single Strap,  
Single Slot  
2" L x 3/8" W  
\$35



**A253**  
Double Strap,  
Single Slot  
2" L x 3/8" W  
\$35



**A254**  
Double Wire,  
Single Slot  
2" L x 3/8" W  
\$35

ACCESSORY KITS

**All Kits Listed on This Page are Stock**

# Accessory Kits - Multiplier Symbol S4

## Length Adapter Kit



Used to convert Hubless motors to Resilient Ring mount. One adapter bracket can be mounted directly to original motor bracket and the other is mounted on the motor's thru-bolts and can be adjusted to desired length. Kit includes: 2 adapters, 2 resilient rings, 4 split rings, and the necessary nuts, screws, and washers.

CAT. NO.	KIT NO.	DESCRIPTION	LIST PRICE	WEIGHT
A111	KIT 111	Two Adapters	\$20	1

## Rheem/Ruud Mounting Kit



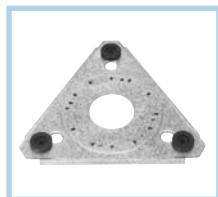
Used to replace a Rheem/Ruud condenser fan motor where the original was held in place by four cables. Kit includes: prepunched plated steel plate, 4-8x32 nuts with washer fastened, 4-10x32 nuts with washers fastened and 4-1/4" sheet metal screws. Instructions included.

CAT. NO.	KIT NO.	LIST PRICE	WEIGHT
A259	Kit 259	\$25	2

## Fedders Adapter Plate

Used to match Fedders rectangular mounting stud pattern on 5-5/8" motors.

CAT. NO.	KIT NO.	LIST PRICE	WEIGHT
A278	KIT 278	\$13	3



## Fedders Mounting Kit

Used in Fedders air conditioners.

CAT. NO.	KIT NO.	LIST PRICE	WEIGHT
A277	Kit 277	\$25	2

## Capacitor Mounting Kit



Used for mounting a capacitor on the frame of a Permanent Split Capacitor motors. Kit includes: mounting strap, mounting screws, and terminal protection boot. (4 screws are included - 2#10 screws and 2#8 screws). **Fits 10mfd. and smaller capacitors only.**

CAT. NO.	KIT NO.	LIST PRICE	WEIGHT
A100	KIT 100	\$8	2

## Capacitor with Mounting Kit

Kit includes 370 volt capacitor, mounting strap, mounting screws and terminal protection boot.

CAT. NO.	KIT NO.	SIZE	LIST PRICE	WEIGHT
A243	Kit 243	5.0 mfd	\$16	2
A244	Kit 244	7.5 mfd	\$19	2
A245	Kit 245	10.0 mfd	\$21	2

## Oval Run Capacitors



CAT. NO.	KIT NO.	SIZE	LIST PRICE	WEIGHT
A371	KIT 370-3	3mfd/370v	\$9	2
A372	KIT 370-4	4mfd/370v	\$9	2
A373	KIT 370-5	5mfd/370v	\$9	2
A375	KIT 370-7.5	7.5mfd/370v	\$11	2
A376	KIT 370-10	10mfd/370v	\$11	2
A378	KIT 370-15	15mfd/370v	\$19	2
A379	KIT 370-17.5	17.5mfd/370v	\$19	2
A380	KIT 370-20	20mfd/370v	\$21	2
A381	KIT 370-25	25mfd/370v	\$24	2
A382	KIT 370-30	30mfd/370v	\$27	2
A445	KIT 440-7.5	7.5mfd/440v	\$17	2
A446	KIT 440-10	10mfd/440v	\$19	2

**All Kits Listed on This Page are Stock**

ACCESSORY KITS

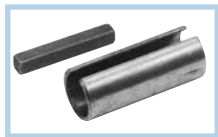


# Accessory Kits - Multiplier Symbol S4

## Capacitor Selection Guide for Stock PSC Motors

370 VOLT												440 VOLT					
3.0 mfd	4.0 mfd	5.0 mfd					7.5 mfd	10.0 mfd		15.0 mfd	17.5 mfd	20.0 mfd	25.0 mfd	30.0 mfd	7.5 mfd	10.0 mfd	
X411	X223	X001	X048	X069	X210	X417	X000	X294	X004	X453	X009	X433	X206	X462	X271	X454	X237
X427	X273	X003	X049	X070	X212	X418	X002	X413	X010	X458	X016		X447	X449	X448	X446	X241
X429	X281	X006	X050	X080	X215	X419	X005	X415	X021	X1010	X023			X242		X405	
		X011	X052	X081	X216	X420	X013	X422	X033		X027						
		X012	X056	X082	X217	X423	X015	X424	X035		X036						
		X014	X057	X083	X219	X428	X018	X426	X038		X039						
		X017	X058	X086	X233	X430	X020	X450	X063		X085						
		X019	X059	X087	X234	X440	X022	X456	X068		X090						
		X034	X060	X088	X236	X441	X037	X457	X084		X099						
		X040	X061	X089	X258	X442	X071	X465	X096		X205						
		X041	X062	X097	X278	X443	X203		X098		X207						
		X042	X064	X200	X287	X445	X213		X208		X218						
		X043	X065	X202	X295	X463	X214		X211		X298						
		X044	X066	X204	X297	X464	X222		X221		X444						
		X045	X067	X209	X412	X262	X225		X400		X452						
							X231		X414		X455						
							X283		X416		X459						
									X451								

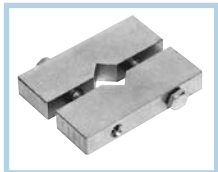
### Shaft Adapter Sleeve



Used to increase the diameter of a shaft to a larger size. Available sizes include converting from a 1/2" dia. shaft with flat to a 5/8" dia. with key and from a 5/8" dia. with key to a 3/4" dia. with key. Kit includes adapter sleeve and key.

CAT. NO.	KIT NO.	TO CHANGE SHAFT	LIST PRICE	WEIGHT
A105	KIT 105	1/2" to 5/8"	\$8	3
A106	KIT 106	5/8" to 3/4"	\$11	3

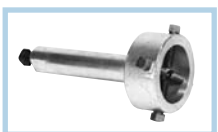
### Shaft Lock Device



Used as a pry point for prying the blade off. Instructions included.

CAT. NO.	KIT NO.	LIST PRICE	WEIGHT
A257	KIT 257	\$47	2

### Blower Wheel Remover



Used to pull off corroded, rusted, stubborn blower wheels from 5/8" diameter shafts and smaller. Comes with complete instructions.

CAT. NO.	KIT NO.	LIST PRICE	WEIGHT
A256	KIT 256	\$148	2

### Tapered Fork



Used for prying off pulleys, fan blades, etc., from any shaft 5/8" diameter or smaller. Long 16" handle gives good leverage. Instructions included.

CAT. NO.	KIT NO.	LIST PRICE	WEIGHT
A258	KIT 258	\$62	4

### Toggle Switch



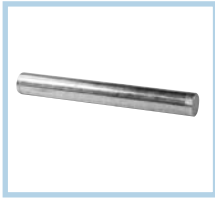
Start switches for single-phase open dripproof motors only in ratings one horsepower and smaller. Switch is mounted on the motor terminal box cover.

CAT. NO.	KIT NO.	LIST PRICE	WEIGHT	NO. OF POLES	FRAME SIZE
AG228	112A515AKG4	\$37	2	Single (SPST)	30
AG229	112A515ASG2	\$37	2	Single (SPST)	40

**All Kits Listed on This Page are Stock**

# Accessory Kits - Multiplier Symbol S4 (except as noted)

## Brass Punch



Used for placing between your hammer and a motor's shaft or bearing. 3/4" diameter x 6" length.

CAT. NO.	KIT NO.	LIST PRICE	WEIGHT
A261	KIT 261	\$21	6

## Motor Rainshield/Fan Canopy

Sizes to fit 1/2" or 5/8" diameter shafts. 6.88" diameter. Shield has 8 air vanes to provide air circulation for motor. For vertical shaft up applications. Rain shield mounts over shaft.

### 056 Type Model Numbers



CAT. NO.	KIT NO.	LIST PRICE	WEIGHT	SHAFT DIA.
A247	KIT 247	\$8	2	1/2"
A248	KIT 248	\$8	2	5/8"

### 5K Type Model Numbers Includes clamp and black plastic cover.



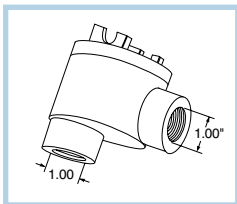
CAT. NO.	KIT NO.	LIST PRICE	WEIGHT	WHERE USED
A549	52A101229AAG1	\$57	2	5.5" Dia. Motors, 1/2" shaft dia.

## Drip Cover Kits

Mounts with two screws into the end bracket. Kit includes: drip cover, mounting screws, washers, and instructions. Contact Marathon Electric to determine compatibility with motor. For vertical shaft down applications.

Note: Kit 234, the mounting holes have a 4.80 bolt circle.

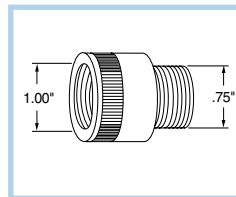
CAT. NO.	FRAME	KIT NO.	ENCLOSURE	LIST PRICE	WEIGHT
A234	48-184T("629")	KIT 234	ODP OR TEFC	\$24	2
AG234	48-56	161L528AAG1	5K MDLS ODP	\$24	2
A201	182T-184T	KIT 201	ODP	\$27	3
A662	182T-184T	KIT 175614	ODP (TTDW)	\$62	15
A197	182T-184T	KIT 197	TEFC (4-IN-1)	\$27	3
A202	213T-215T	KIT 202	ODP (TTDR)	\$31	5
A198	213T-215T	KIT 198	ODP (TTDW)	\$31	5
A199	213T-215T	KIT 199	TEFC (4-IN-1)	\$31	5
A311	254T-256T	KIT 311	ODP (TTDX) Rigid Base	\$31	8



## Conduit Box Kit (56/140 Frame Explosion Proof Motors)

For installation on rolled steel 56/140 frame explosion proof motors. Lead exit holes are 1" dia. NPT.

CAT. NO.	KIT NO.	LIST PRICE	WEIGHT
A800	KIT 56 EXPR BOX	\$93	2



## Lead Exit Reducers (56/140 Frame Explosion Proof Motors)

For reducing the lead exit from 1" to 3/4". Kit LDRDCR-M has an externally threaded 3/4" exit and internally threaded 1" exit.

CAT. NO.	KIT NO.	LIST PRICE	WEIGHT
A803	KIT LDRDCR-M	\$17	2

## Cast Iron Conduit Box Kits

Fits standard Blue Chip® motors. Threaded conduit box and gaskets.

CAT. NO.	FRAME	KIT NO.	LIST PRICE	WEIGHT
A720	182-215T	KIT 180/210CB	\$80	4
A722	254T-256T	KIT 250CB	\$132	12
A729	284T/TS-286T/TS	KIT 280CB	\$178	12
A730	324T/TS-326T/TS	KIT 320CB	\$198	28
A119	364T/TS-445T/TS	KIT 364-445CB	\$333	34

**All Kits Listed on This Page are Stock**

# Accessory Kits - Multiplier Symbol S4

## Pool & Spa Motors Accessories



CAT. NO.	KIT NO.	DISCRIPTION	LIST PRICE	WEIGHT
A940	52D310833AAP001	30 Frame C-face PE Endshield	\$21	4
A941	52D311808ARP1	40 Frame C-face PE Endshield	\$39	4
A942	52D310814AAP1	30 Frame OPE Endshield	\$15	4
A945	115D964P1	Base Plate for 30 Frame	\$8	2
A946	115D964P2	Base Plate for 40 Frame	\$8	2
A947	115D963P1	Back Compartment Cover	\$8	2
A948	113A617AG001	OPE bearing 17 mm	\$9	3
A949	113A620AYP1	PE bearing 20 mm	\$21	2
A950	976B399AAP9	Run Capacitor 15mfd/370v	\$24	2
A951	976B399AAP12	Run Capacitor 22.5mfd/370v	\$28	2
A952	976B399AAP13	Run Capacitor 25mfd/370v	\$29	2
A953	976B399ABP6	Run Capacitor 40mfd/370v	\$39	2
A954	976B399ABP9	Run Capacitor 45mfd/370v	\$35	2
A955	976B399ABP10	Run Capacitor 50mfd/370v	\$29	2
A956	161L198AAG9	Switch for Single Speed Models	\$9	1
A957	161L198AAG10	Switch for Two Speed Models	\$17	2
A958	161L197ABG1	Start mech for Single Speed Models	\$4	1
A959	161L197ABG11	Start mech for Two Speed Models	\$8	1
A960	111A271P101	Start Capacitor 297mfd/100v	\$12	2
A961	111A271P111	Start Capacitor 40mfd/220v	\$12	2
A962	52D310822ACDP1	30 Frame Square Flange PE Endshield	\$20	4
A963	52D311819ABP1	40 Frame Square Flange PE Endshield	\$39	4
A964	52A103486G1	Voltage Changing Plug	\$3	2

### Pool Motors Rainshield Kit

Designed for horizontally mounted pump motors to adhere to UL1081 standard. Includes screw and rain cover.



CAT. NO.	KIT NO.	WHERE USED	LIST PRICE	WEIGHT
AG697	161L210AAP1	5" & 5 1/2" Dia. Motors	\$57	1

**All Kits Listed on This Page are Stock**

# Accessory Kits - Multiplier Symbol S4

## Severe Duty - Upgrade to Cast Iron Fan Cover / Conduit Box

Fits standard Blue Chip® motors to achieve all cast iron construction.  
Components include fan guard and threaded conduit box.

CAT. NO.	KIT NO.	LIST PRICE	FRAME	WEIGHT	WHERE USED (Models Containing)
A715	KIT 140CB	\$110	143T-145T	4	TTTN
A718	KIT 180R	\$158	182T-184T	17	TTTS, TTFS, TTFC, THTS
A721	KIT 210R	\$230	213T-215T	19	TTFS, TTTS, THTS, TTFC
A723	KIT 250RFPA	\$279	254T-256T	32	TTFPA, or THFPA
A724	KIT 250RFNA	\$279	254T-256T	34	TTFNA, TTFCA, THTNA, or THFNA
A725	KIT 250R	\$279	254T-256T	32	TTFC
A726	KIT 280RFPA	\$388	284T-286T	34	TTFPA, TSTFPA, or TSHFPA
A727	KIT 280RFN	\$388	284T-286T	39	TTFN or TSTFN
A728	KIT 280R	\$388	284T-286T	39	TTFC or TTFP
A731	KIT 280RFNA	\$388	284T-286T	32	TTFNA, TSTFNA, THFNA or TSHFNA
A733	KIT 320RFPA	\$411	324T-326T	55	TTFPA, TSTFPA, THFPA, or TSHFPA

## Ball Bearing Conversion Kits

For conversion of Roller Bearing on Drive End to Ball Bearing (for Direct-coupled applications).

**CONFIRM KIT SELECTION WITH CUSTOMER SERVICE/ENGINEERING**

CAT. NO.	KIT NO.	LIST PRICE	FRAME	BEARING SIZE	ENCLOSURE	WEIGHT	WHERE USED (Models Containing)
A760	KIT 440BBFN	\$1,530	444T-445T	318	TEFC	160	TTFN
A761	KIT 449BBFS	\$1,592	447T-449T	319	TEFC	171	TTFS
A788	KIT 449BBFS-319	\$1,592	L447T-L449T	319	TEFC	174	TTFS
A787	KIT 449BBFS-322	\$1,592	447T-449T	322	TEFC	196	TTFS
A795	KIT L449BBFS-322	\$1,592	L447T-L449T	322	TEFC	190	TTFS

## Roller Bearing Conversion Kits

For conversion of Ball Bearing on Drive End to Roller Bearing (for Belted Applications).

**CONFIRM KIT SELECTION WITH CUSTOMER SERVICE/ENGINEERING**

CAT. NO.	KIT NO.	LIST PRICE	FRAME	ENCLOSURE	WEIGHT	WHERE USED (Models Containing)
A755	KIT 360BRFSR-314	\$1,164	364T-365T	TEFC	14	TTFS
A756	KIT 400BRFS-316	\$1,164	404T-405T	TEFC	19	TTFS
A757	KIT 440BRFS-318	\$1,530	444T-445T	TEFC	32	TTFS
A759	KIT 440BRFN	\$1,530	444T-445T	TEFC	13	TTFN
A758	KIT 449BRFS	\$1,592	447T-449T	TEFC	20	TTFS

## Axial Blower Kits

For installation on Blue Chip XRI® Totally Enclosed and Severe Duty (excluding Explosion Proof).

CAT. NO.	KIT NO.	LIST PRICE	FRAME	WEIGHT	WHERE USED (Models Containing)
A692	KIT 21TEBC	\$1,606	213T-215T	104	TTFS
A691	KIT 25TEBCNA	\$1,755	254T-256T	158	TTFNA (Also fits 284/286T/TS TTFPA)
A701	KIT 28TEBCNA	\$2,066	284T/TS-286T/TS	103	TTFNA
A695	KIT 32TEBC	\$2,430	324T/TS-326T/TS	200	TTFS
A696	KIT 36TEBC	\$3,112	364T/TS-365T/TS	172	TTFS
A697	KIT 40TEBC	\$3,661	404T/TS-405T/TS	242	TTFS
A698	KIT 44TEBC-313	\$4,081	444TS-449TS	358	A 6313 bearing on opposite shaft end
A699	KIT 44TEBC-316	\$4,081	444T-449T	401	A 6316 bearing on opposite shaft end (excludes roller bearing)
A700	KIT 44TEBC-318	\$4,081	444T-449T	186	A 6318 bearing on opposite shaft end (excludes roller bearing)
A796	KIT L449TEBC	\$4,081	L447T-L449T	272	With L447/449 Frames

**All Kits Listed on This Page are Stock**

# Accessory Kits - Multiplier Symbol E3

## Encoder Kits and Accessories for Black Max, Blue Max, XRI-SD and XRI-841 motors

Installation of encoder kits on Blue Chip XRI-SD and XRI-841 TEFC motors requires installation of A807 Stub Shaft Kit (see below)

ENCL.	FRAME	BRAND / MODEL	PPR	CAT. NO.	KIT NO.	LIST PRICE	WEIGHT	NOTES
TENV (5/8" bore)	56-256	Avtron HS25A	1024	A746	KIT HS25A1024-NV	\$1,064	4	Shaft Mount, 5-26 VDC, with 10 pin connector/mate
			2048	A747	KIT HS25A2048-NV		4	
		Avtron HS35A	1024	A736	KIT HS35A1024-NV	\$1,446	4	Shaft Mount, 5-26 VDC, with 10 pin connector/mate
			2048	A739	KIT HS35A2048-NV		4	
		Avtron HS35M	1024	A742	KIT HS35M1024	\$1,674	4	Shaft Mount, 5-24 VDC, with EPIC connector/mate
		Avtron M3	1024	A753	KIT M31024-NV	\$2,800	10	Shaft Mount, 5-24 VDC, with EPIC connector/mate
		Avtron AV56	1024	A793	KIT M561024-NV	\$2,283	5	Modular Mount, 5-24 VDC, with EPIC connector/mate, Double C-Face
		BEI HS35	1024	A779	KIT HS35B1024-NV	\$1,446	3	Shaft Mount, 5-28 VDC, with 10 pin connector/mate <b>(To Be Discontinued)</b>
			2048	A780	KIT HS35B2048-NV		3	
		Dynapar HS20	1024	A687	KIT HS201024-NV	\$672	3	Shaft Mount, 5-26 VDC, with 10 pin connector/mate
		Dynapar HS35R	1024	A772	KIT HS351024-NV	\$1,446	3	Shaft Mount, 5-26 VDC, with 10 pin connector/mate
			2048	A776	KIT HS352048-NV		3	
EPC 260	2048	A686	KIT EPC260 2048	\$672	3	Shaft Mount, 5-16 VDC, with M12 Connector <b>(To Be Discontinued)</b>		
NorthStar HSD35	1024	A711	KIT HSD351024-NV	\$1,562	4	Shaft Mount, 5-26 VDC, with EPIC connector/mate		
NorthStar SL56	512	A785	KIT LKSR512	\$2,283	5	Modular Mount, 5-15 VDC, with EPIC connector/mate		
	1024	A763	KIT LKSR02	\$2,283	5	Modular Mount, 5-15 VDC, with EPIC connector/mate		
	1024	A786	KIT LKSR-CFACE	\$2,510	5	Modular Mount, 5-15 VDC, with EPIC connector/mate, Double C-Face		
TEFC (1" bore)	182-449	Avtron HS35A	1024	A737	KIT HS35A1024-FC	\$1,446	4	Shaft Mount, 5-26 VDC, with 10 pin connector/mate
			2048	A740	KIT HS35A2048-FC		4	
		Avtron HS35M	1024	A742	KIT HS35M1024	\$1,674	4	Shaft Mount, 5-24 VDC, with EPIC connector/mate
		Avtron M3	1024	A754	KIT M31024-FC	\$2,800	10	Shaft Mount, 5-24 VDC, with EPIC connector/mate
		BEI HS35	1024	A783	KIT HS35B1024-FC	\$1,446	3	Shaft Mount, 5-28 VDC, with 10 pin connector/mate <b>(To Be Discontinued)</b>
			2048	A784	KIT HS35B2048-FC		3	
		Dynapar HS35R	1024	A774	KIT HS351024-FC	\$1,446	3	Shaft Mount, 5-26 VDC, with 10 pin connector/mate
2048	A777		KIT HS352048-FC		3			
NorthStar HSD35	1024	A712	KIT HSD351024-FC	\$1,562	4	Shaft Mount, 5-26 VDC, with EPIC connector/mate		
TEBC (1" bore)	284-449	Avtron HS35A	1024	A738	KIT HS35A1024-BC	\$1,446	3	Shaft Mount, 5-26 VDC, with 10 pin connector/mate
			Avtron AV56	1024	A794	KIT M561024-BC	\$2,283	
		BEI HS35	1024	A781	KIT HS35B1024-BC	\$1,446	3	Shaft Mount, 5-28 VDC, with 10 pin connector/mate <b>(To Be Discontinued)</b>
			2048	A782	KIT HS35B2048-BC		3	
		Dynapar HSD38	1024	A775	KIT HS351024-BC	\$1,446	3	Shaft Mount, 5-26 VDC, with 10 pin connector/mate
			2048	A778	KIT HS352048-BC		3	
		NorthStar SL56	1024	A764	KIT LKSR03	\$2,283	5	Modular Mount, 5-15 VDC
		Turck A02H	1024	A668	KIT A02H1024-BC LED	\$1,624	4	Shaft Mount, 5-30VDC, bulkhead (A801 not required), LED cordset (3m)
2048	A669		KIT A02H2048-BC LED		4			
ALL		A801	KIT ENCB0X	\$152	2	Encoder Conduit Box (required for all TEBC encoders except Turck A02H)		
TENV BRAKE- MOTORS	143-256	Avtron AV56	1024	A748	KIT M561024BRK-140	\$2,283	4	Fits Blue Max Brakemotors (Y986, Y987)
				A749	KIT M561024BRK-182		4	
		Avtron M85	1024	A750	KIT M851024BRK-184		8	Fits Blue Max Brakemotors (Y989)
			A752	A751	KIT M851024BRK-210	\$3,080	8	
				A752	KIT M851024BRK-250		8	Fits Blue Max Brakemotors (Y992, Y993)
		NorthStar SL56	1024	A786	KIT LKSR-CFACE	\$2,510	5	Fits Blue Max Brakemotors (Y986, Y987)
				A789	KIT SL561024-182NV		5	
NorthStar SL85	1024	A790	KIT SL851024-184NV		8	Fits Blue Max Brakemotors (Y989)		
		A791	KIT SL851024-210NV	\$3,080	8	Fits Blue Max Brakemotors (Y990, Y991)		
		A792	KIT SL851024-250NV		8	Fits Blue Max Brakemotors (Y992, Y993)		
CABLE KITS	56-449	Danaher Controls	N/A	A688-10	KIT A688-10	\$279	3	10' cable and pre-wired 10-pin connector for all 10 pin (MS) connectors
			N/A	A688-20	KIT A688-20	\$393	3	20' cable and pre-wired 10-pin connector for all 10 pin (MS) connectors
			N/A	A688-25	KIT A688-25	\$446	4	25' cable and pre-wired 10-pin connector for all 10 pin (MS) connectors
			N/A	A688-30	KIT A688-30	\$502	4	30' cable and pre-wired 10-pin connector for all 10 pin (MS) connectors
			N/A	A688-50	KIT A688-50	\$725	5	50' cable and pre-wired 10-pin connector for all 10 pin (MS) connectors
			N/A	A688-60	KIT A688-60	\$836	5	60' cable and pre-wired 10-pin connector for all 10 pin (MS) connectors
			N/A	A688-100	KIT A688-100	\$1,280	10	100' cable and pre-wired 10-pin connector for all 10 pin (MS) connectors
			N/A	A690-15	KIT A690-15	\$231	3	15 feet bulk cable, for use with NorthStar encoders

ACCESSORY KITS

### Encoder Stub Shaft Kit

Fits XRI® Severe Duty or XRI® IEEE-841 motors to allow the addition of 1" bore hollow shaft encoders on opposite drive end of motor.

CAT. NO.	KIT NO.	FRAME	LIST PRICE	WEIGHT	WHERE USED
A807	KIT STUBSHAFT 1IN	182T-449T/TS	\$168	3	FAN COOLED SEVERE DUTY AND IEEE-841

**All Kits Listed on This Page are Stock**



# Accessory Kits - Multiplier Symbol E3

## Grounding Kits



### Shaft Grounding

Shaft grounding is recommended (NEMA MG1 31.4.4.3) as an effective means of bearing protection for motors operated from inverter power. One grounding device is adequate to bleed down inverter-sourced shaft voltages, thereby protecting both bearings for motors as large as 6085 frame. Kits includes grounding ring, mounting hardware and instructions. Shaft ground rings fit these NEMA shaft extension frames listed below, they are designed to mount on the shaft end. For 5000 and larger frames, please contact Marathon Electric.

### SHAFT GROUNDING RING (SGR)

FRAME	KIT NO.	CAT NO.	KIT LIST PRICE	WEIGHT	MOD Central (installed) LIST PRICE
48	KIT SGR-11.2	A500-5	\$218	2	\$395
56	KIT SGR-14.4	A500-8	\$218	1	\$395
143-145T	KIT SGR-20.7	A500-14	\$232	2	\$441
182-184T	KIT SGR-27.1	A500-20	\$252	1	\$456
213-215T	KIT SGR-33.4	A500-26	\$284	1	\$472
254-256T	KIT SGR-39.8	A500-32	\$313	1	\$681
284-286T	KIT SGR-46.1	A500-38	\$419	1	\$711
284-286TS	KIT SGR-39.8	A500-32	\$313	1	\$711
324-326	KIT SGR-52.5	A500-44	\$485	1	\$788
324-326TS	KIT SGR-46.1	A500-38	\$419	1	\$788
364-365	KIT SGR-58.8	A500-50	\$492	1	\$950
364-365TS	KIT SGR-46.1	A500-38	\$419	1	\$950
404-405	KIT SGR-71.5	A500-62	\$815	1	\$1,038
404-405TS	KIT SGR-52.5	A500-44	\$485	1	\$1,038
444-445T	KIT SGR-84.2	A500-74	\$1,168	1	\$1,327
444-445TS	KIT SGR-58.8	A500-50	\$551	1	\$1,327
447/449T	KIT SGR-84.2	A500-74	\$1,168	1	\$1,327
447/449TS	KIT SGR-58.8	A500-50	\$551	1	\$1,327
5000LS	KIT SGR-71.5	A500-62	\$815	1	N/A

### Replacement ground brush mounting hardware and brushes

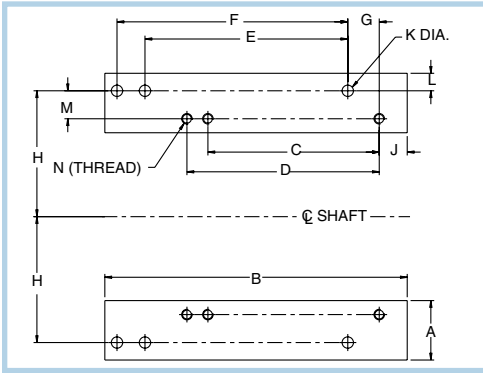
CAT. NO.	KIT NO.	LIST PRICE	WEIGHT	COMMENTS
A103	KIT 103	\$349	1	Drive end mount
A116	KIT 116	\$504	1	Non-drive end mount
A109	KIT 109	\$55	1	Replacement Brush

**Grounding devices may not be installed on motors used in Division 1 or Division 2 hazardous locations.**

**All Kits Listed on This Page are Stock**

# Accessory Kits - Multiplier Symbol S4

## Transition Bases

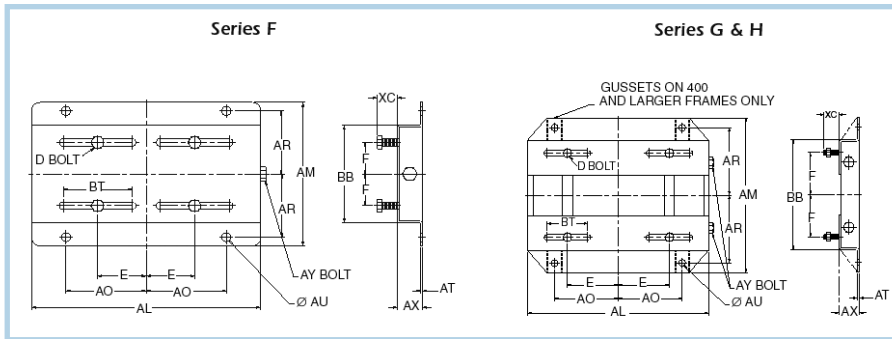


**Application:** Convert "T" frame ratings to "U" frame based dimensions and shaft heights. Shaft dimensions may vary from actual "U" frame specifications.

Dimensions = Inches

CAT. NO.	KIT #	CONVERTS		A	B	HGT	C	D	E	F	G	H	J	K	L	M	N (THREAD)	APP. WGHT.	LIST PRICE
		FROM	TO																
1814T	KIT 180U	143/5T	182/4	2 1/4	7 1/2	1	4	5	4 1/2	5 1/2	1/2	3 3/4	1	7/16	1/2	1	5/16-18	2	\$147
2118T	KIT 210U	182/4T	213/5	1 3/4	9 1/2	3/4	4 1/2	5 1/2	5 1/2	7	1	4 1/4	1	7/16	7/16	1/2	3/8-16	3	\$186
25U21T	KIT 250U	213/5T	254/6U	2 7/16	12 3/4	1	5 1/2	7	8 1/4	10	1 1/8	5	1	9/16	5/8	3/4	3/8-16	5	\$186
28U25T	KIT 280U	254/6T	284/6U	2 3/4	14 1/4	3/4	8 1/4	10	9 1/2	11	1 3/8	5 1/2	1 1/4	9/16	15/16	1/2	1/2-13	8	\$186
32U28T	KIT 320U	284/6T	324/6U	3 1/4	15 3/4	1	9 1/2	11	10 1/2	12	1 1/2	6 1/4	1 1/2	11/16	15/16	3/4	1/2-13	10	\$220
36U32T	KIT 360U	324/6T	364/5U	3 11/16	16 1/2	1	10 1/2	12	11 1/4	12 1/4	1 3/4	7	1 3/4	11/16	1 3/16	3/4	5/8-11	13	\$260
40U36T	KIT 400U	364/5T	404/5U	4 1/4	18 5/8	1	11 1/4	12 1/4	12 1/4	13 3/4	2	8	2	13/16	1 1/4	1	5/8-11	22	\$333
44U40T	KIT 440U	404/5T	444/5U	4 1/4	21 5/8	1	12 1/4	13 3/4	14 1/2	16 1/2	2 1/4	9	2	13/16	1 1/4	1	3/4-10	24	\$333

## Adjustable Motor Bases (Slide Bases)



**Application:** Used to adjust tension during motor installation. Made with heavy duty steel construction with single screw adjustment for 143T-215T Frame and double screw adjustment for 254T Frame and larger.

Dimensions = Inches

SERIES	FRAME	CAT. NO.	KIT NO.	AL	AM	AX	BB	E	F	AO	AR	AU	BT	AT	XC	D BOLT	AY BOLT	WGHT. LBS.	LIST PRICE
F	143	143A	KIT 143SB	10 1/2	7 1/2	1 1/8	5 1/2	2 3/4	2	3 3/4	3 3/8	3/8	3	0.119	13/16	5/16 x1	3/8x4	5	\$90
F	145	145A	KIT 145SB	10 1/2	8 1/2	1 1/8	6 1/2	2 3/4	2 1/2	3 3/4	3 7/8	3/8	3	0.119	13/16	5/16x1	3/8x4	6	
F	182	182A	KIT 182SB	12 3/4	9 1/2	1 1/2	6 1/2	3 3/4	2 1/4	4 1/2	4 1/4	1/2	3	0.134	1 1/2	3/8x1 3/4	1/2x6	9	\$100
F	184	184A	KIT 184SB	12 3/4	10 1/2	1 1/2	7 1/2	3 3/4	2 3/4	4 1/2	4 3/4	1/2	3	0.134	1 1/2	3/8s 1 3/4	1/2x6	9	
F	213	213A	KIT 213SB	15	11	1 3/4	7 1/2	4 1/4	2 3/4	5 1/4	4 3/4	1/2	3 1/2	0.164	1 1/2	3/8x1 3/4	1/2x6	13	\$120
F	215	215A	KIT 215SB	15	12 1/2	1 3/4	9	4 1/4	3 1/2	5 1/4	5 1/2	1/2	3 1/2	0.164	1 1/2	3/8x1 3/4	1/2x6	15	
G	254	254B2	KIT 254SB	17 3/4	15 1/8	2	10 3/4	5	4 1/8	6 1/4	6 5/8	5/8	4	3/16	1 7/16	1 1/2x1 3/4	5/8x6	17	\$193
G	256	256B2	KIT 256SB	17 3/4	16 7/8	2	12 1/2	5	5	6 1/4	7 1/2	5/8	4	3/16	1 7/16	1 1/2x1 3/4	5/8x6	18	
G	284	284B2	KIT 284SB	19 3/4	16 7/8	2	12 1/2	5 1/2	4 3/4	7	7 1/2	5/8	4 1/2	3/16	2 1/2	1 1/2x2	5/8x6	21	\$228
G	286	286B2	KIT 286SB	19 3/4	18 3/8	2	14	5 1/2	5 1/2	7	8 1/4	5/8	4 1/2	3/16	2 1/2	1 1/2x2	5/8x6	22	
G	324	324B2	KIT 324SB	22 3/4	19 1/4	2 1/2	14	6 1/4	5 1/4	8	8 1/2	3/4	5 1/4	3/16	2 3/16	5/8x2 1/2	3/4x9	31	\$377
G	326	326B2	KIT 326SB	22 3/4	20 3/4	2 1/2	15 1/2	6 1/4	6	8	9 1/4	3/4	5 1/4	3/16	2 3/16	5/8x2 1/2	3/4x9	32	
G	364	364B2	KIT 364SB	25 1/2	20 1/2	2 1/2	15 1/2	7	5 5/8	9	9 1/8	3/4	6	1/4	2 1/16	5/8x2 1/2	3/4x9	44	\$493
G	365	365B2	KIT 365SB	25 1/2	21 1/2	2 1/2	16 1/2	7	6 1/8	9	9 5/8	3/4	6	1/4	2 1/16	5/8x2 1/2	3/4 x9	45	
H	404	404B2	KIT 404SB	28 3/4	22 3/8	3	16 1/2	8	6 1/8	10	9 7/8	7/8	7	1/4	2 1/2	3/4x3	3/4x11	60	\$720
H	405	405B2	KIT 405SB	28 3/4	23 7/8	3	18	8	6 7/8	10	10 5/8	7/8	7	1/4	2 1/2	3/4x3	3/4x11	61	
H	444	444B2	KIT 444SB	31 1/4	24 5/8	3	19 1/4	9	7 1/4	11	11	7/8	7 1/2	1/4	2 1/2	3/4x3	3/4x11	67	\$996
H	445	445B2	KIT 445SB	31 1/4	26 5/8	3	21 1/4	9	8 1/4	11	12	7/8	7 1/2	1/4	2 1/2	3/4x3	3/4x11	69	
H	447	447B2	KIT 447SB	31 1/4	30 1/8	3	24 3/4	9	10	11	13 3/4	7/8	7 1/2	5/16	3	3/4x3 1/2	3/4x11	92	\$1,192
H	449	449B2	KIT 449SB	31 1/4	35 1/8	3	29 3/4	9	12 1/2	11	16 1/4	7/8	7 1/2	5/16	3	3/4x3 1/2	3/4x11	95	

**All Kits Listed on This Page are Stock**

# New & Improved - [www.marthonelectric.com](http://www.marthonelectric.com)



As previously announced the new and improved Marathon Electric website is “live.” The new website is a great resource for selecting products, providing technical data, catalogs, brochures, outline drawings, ME-Business eCommerce site and much, much more.

Not only has the look changed, the features have as well. A few of these include: competitive cross-reference, distributor search, motor date code chart and instructions on how to read a model number. A competitive cross reference allows you to find the equivalent Marathon motor to a number of other brands.

The new website is very user-friendly. Simply log onto [www.marthonelectric.com](http://www.marthonelectric.com). Click on the ‘motors’ link. If you know the model or catalog number, simply enter it in the search tool at the top of the page. Other functions are listed below.

### Products

- AC Motors Search
- DC Motors Search
- Competitive Cross Reference

### ME Business

- Log-In Screen

### Contact Us

- Home Office Information

### Service & Support

- Service Locations
- Distributor Search
- Service Parts
- Standard Warranty Policy
- Frequently Asked Questions
- Motor Date Codes
- How to Read a Model Number
- Warranty Forms

### Literature

- Catalogs & Brochures
- Installation, Operation, & Maintenance Manuals
- Terms & Conditions

Log on to the new [www.marthonelectric.com](http://www.marthonelectric.com) today!



# SyMAX™ FHP

## VARIABLE SPEED PERMANENT MAGNET AC FRACTIONAL HORSEPOWER MOTOR

Designed for food machines, conveyors, agricultural machines, and other commercial applications requiring a mission critical motor.

The SyMAX™ FHP motor incorporates a radial flux design which delivers high torque, ultra-high efficiency and increased power density, which help provide system maximization.

SyMAX-*i*™ features IntelliDrive™, an embedded electronic control system that incorporates proprietary algorithms, allowing the power to be easily controlled while maintaining a high efficiency level.



### SyMAX™ FHP MOTOR ONLY SPECIFICATIONS

- Totally enclosed, non-ventilated (TENV)
- Same Torque/HP Ratings as Integrated Designs
- Three-phase input, 60 Hz
- Maximum 5000 RPM
- NEMA 48/S56/56Fr
- IP54
- With and without sensor feedback
- Embedded magnet design
- UL and cUL Recognized component

### SyMAX-*i*™ 48 FRAME WITH INTELLIDRIVE™ SPECIFICATIONS

- Totally enclosed, fan cooled (TEFC)
- Torque: 0-72 in-lb, 0-8.1 Nm
- 115 & 230V AC single-phase input, 60 Hz
- Maximum 3000 RPM
- 1.25 HP Max @ 115V (1.25 HP @ 1000-3000 RPM)
- 2.5 HP Max @ 230V (1HP @ 850 RPM / 2 HP @ 1700 RPM / 2.5 HP @ 3000 RPM)
- NEMA 48Fr and S56
- IP54
- Embedded magnet design
- UL and cUL Recognized component

### SyMAX-*i*™ 56 FRAME WITH INTELLIDRIVE™ SPECIFICATIONS

- Totally enclosed, fan cooled (TEFC)
- Torque: 0-132 in-lb, 0-14.9 Nm
- 230 & 460V AC three-phase input, 60 Hz
- Maximum 2250 RPM
- 1/3 HP-3.6 HP (2 HP @ 1140 RPM / 3.6 HP @ 1700 RPM)
- NEMA 56Fr
- IP54
- Embedded magnet design
- UL and cUL Recognized component

### FEATURES

- MAX GUARD® insulation system
- Rolled-steel construction
- Constant torque or constant speed operation
- Integrated control, separate control and/or motor-only construction
- Continuous duty at 40°C ambient

### BENEFITS

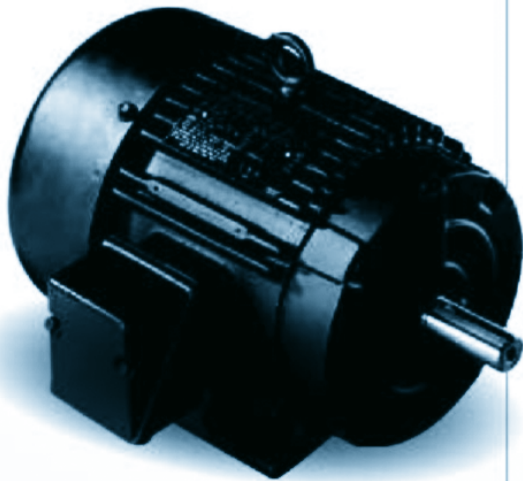
- Provides commercial and industrial users with the highest efficiencies available
- 200% starting torque for loaded start-up conditions at low speeds with sensed feedback
- System maximization when used to eliminate contactors, starters, current relays and gearboxes
- Lower operating temperatures
- Constant torque or constant speed control
- Durable construction provides long life in the most strenuous environments

# SyMAX™ IHP

## VARIABLE SPEED PERMANENT MAGNET AC INTEGRAL HORSEPOWER MOTOR

Designed for compressors, pumping, material handling, mixers, air moving, commercial and industrial machinery, along with applications requiring a mission critical motor.

The SyMAX™ IHP motor incorporates a radial flux design which delivers high torque, ultra-high efficiency and increased power density, providing system maximization.



### SPECIFICATIONS

- Totally enclosed, fan cooled (TEFC)
- Ultra Efficient IE4 (above NEMA Premium)
- Torque: 10-300 lb/foot, 13.5-400 Nm
- 230 & 460V AC three-phase input, 60 Hz
- NEMA 182-286T and optional IEC 112-180 frames
- IP55-rated enclosure
- Interior Permanent Magnet (PM)
- C-Face and rigid base
- UL and cUL Recognized component
- CSA Certified
- CE Mark

### FEATURES

- MAX GUARD® insulation system
- Cast-iron (182-286T) construction
- Suitable for use on a PWM PM drive in variable or constant torque mode
- F1, F2 or F3 terminal box configuration
- Omni-mount™ 360° mounting
- Continuous duty at 40°C ambient
- Three year warranty

### BENEFITS

- Provides commercial and industrial users with the highest efficiencies available
- Performance Matched™ to today's state-of-the-art PWM PM drives
- High dynamic response due to a lower rotor-to-inertia ratio than equivalent induction motors
- Incredible system maximization when used to eliminate gear boxes, sheaves and belts, and chains in applications
- Lower operating temperatures
- Decreased vibration
- Sensor-less feedback is possible when used with open-loop PM drives, mitigating reliability issues and costs associated with encoders
- Durable cast-iron construction provides long life in the most strenuous environments
- IP55 protection for mission critical applications requiring a higher degree of protection against the entry of dust and other contaminants



# STANDARD GEARING PRODUCTS

Worms, Bevels, Parallels and Shaft Mount Reducers

Most items available in 3 days or less!



<b>Worm Gear Drives</b> Over 250 Standard Models	Ratios 5/1 to 216,000/1 0.183 thru 100 HP
<b>Spartan Aluminum Drives</b> Modular Design Flexibility	Ratios 5/1 to 2,220/1 0.183 thru 7.5 HP
<b>Bevel Gear Drives</b> Universal Mounting	Ratios 1/1 to 7.33/1 0.016 thru 1,250 HP
<b>PowerTorque™</b> Ten Competitively Sized Models	Ratios 9/1, 15/1 and 25/1 0.25 thru 200 HP
<b>Parallel Shaft Drives</b> Hydraulic, Electric or Shaft Input	Ratios 1/1 to 70/1 2 thru 530 HP

## High Efficiency



Most items available in 3 - 5 days!

<b>Helical Inline Drives</b> Competitively Sized and Rated	Ratios 2.25/1 to 3,334/1 0.14 thru 125 HP
<b>Helical Bevel Drives</b> High Capacity Gearing	Ratios 6.5/1 to 3,413/1 0.25 thru 130 HP
<b>Helical Worm Drives</b> Universal Mounting Dimensions	Ratios 6/1 to 3,460/1 0.25 thru 23 HP
<b>Compact Helical Parallel</b> Four Popular Models	Ratios 3.42/1 to 3,377/1 0.25 thru 20 HP

## Cleanline™, Hub<sup>3</sup> and Washdown

Available in 3 - 5 days!



<b>Hub<sup>3</sup> Stainless Steel Worm Gear Drives, Bevel Gear Drives, Helical Inline and Helical Bevel</b> Smooth Exterior Surfaces High Pressure Seals 316 SS Housing & Shafts	Ratios 1/1 to 138/1 0.25 thru 50 HP
<b>CleanLine Plus™ Composite and CleanLine UltraPlus™ Stainless Steel Mounted Bearings</b> Smooth Exterior Surfaces Corrosion Resistant Materials	<b>Pillow Block &amp; Flange</b> Bore Sizes to 1-15/16"

## Mounted Bearings



Available in 3 days or less!

<b>IndustrialLine™ Mounted Bearing</b> Ball Bearing Pillow Blocks, Flange Blocks & Take-Up Units Setscrew & Eccentric Locking Type "E" Tapered Roller Units	<b>Bore Sizes Range</b> 1/2" thru 4"
<b>DuraLine™ Mounted Bearings</b> Popular Sizes of Ball Bearing Pillow Blocks & Flange Blocks Economical Durability	<b>Bore Sizes Range</b> 1/2" thru 3-1/2"

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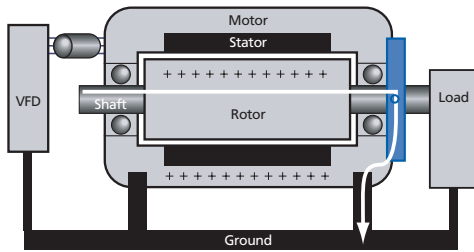
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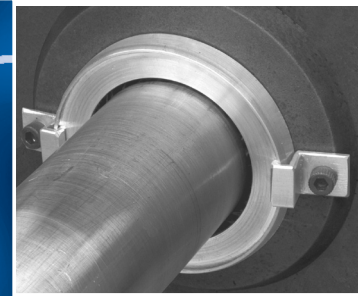


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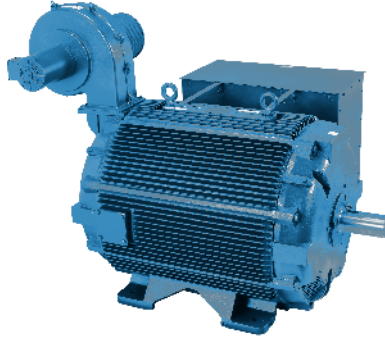
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# Specials Are Our Specialty

**143-449T, IP56,  
Hazardous Duty™  
Class I and II, Groups C, D, F & G**



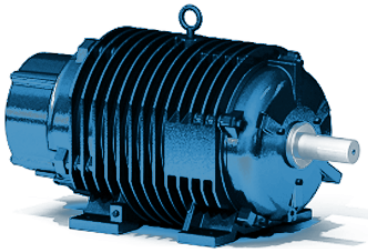
**6805 DPFV  
Cast Iron, Force Ventilated, F2**



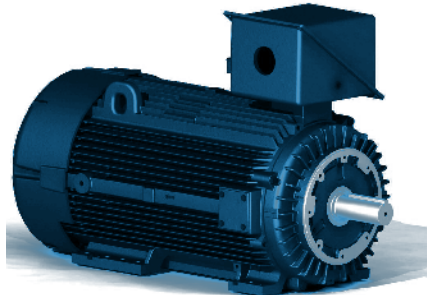
**Roller Table Motor -  
Round  
Annular fin design, Cast Iron,  
FF Flange, F4**



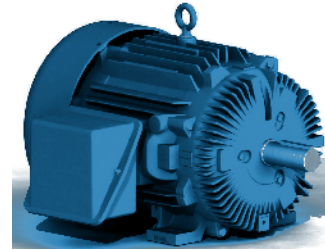
**Roller Table Motor -  
Footed  
Annular fin design, Cast  
Iron, F4**



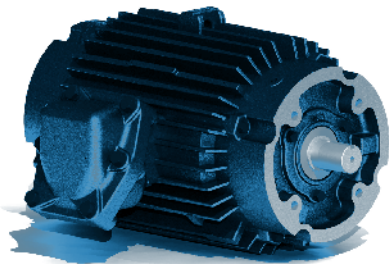
**5007 - 5010 Frame  
All New designs**



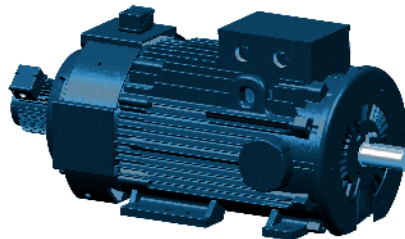
**TEFC FIRE PUMP  
3Hp to 450Hp, Red Paint**



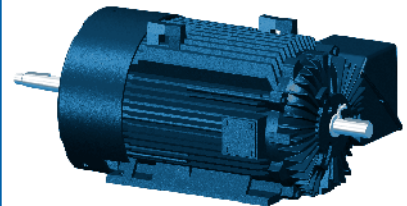
**Shaker Duty,  
Hazardous Duty™  
210-360 Frame, Round,  
Dual Flange**



**280 IEC TEBC  
Blower Cooled, Ground Brush, F3**



**440TCZ TEFC  
Cast Iron,  
Tapered ODE Shaft, F2**

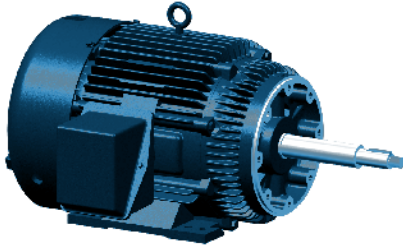


SPECIALTY MOTORS

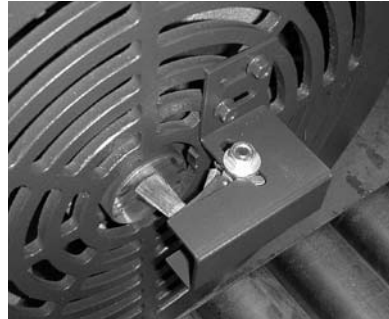


# Specials Are Our Specialty

**320TCZ TEFC**  
Special Shaft, C-Face



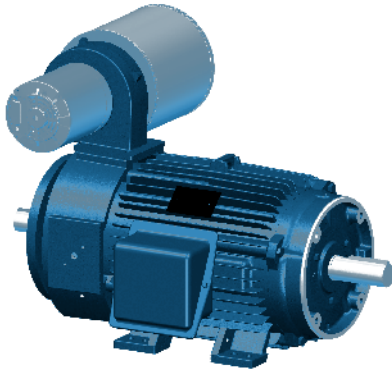
**Ground Brush**  
Opposite Drive End



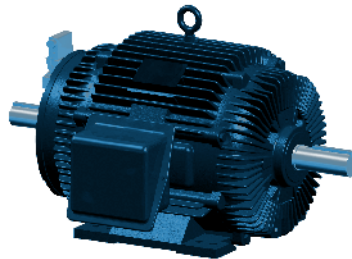
**AEGIS® Shaft Grounding Ring**  
Drive End



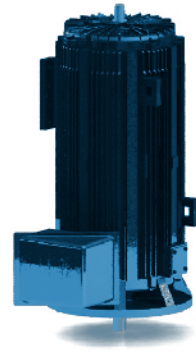
**320 TCZ TEBC**  
Blower Cooled, Special  
ODE shaft, C-Face



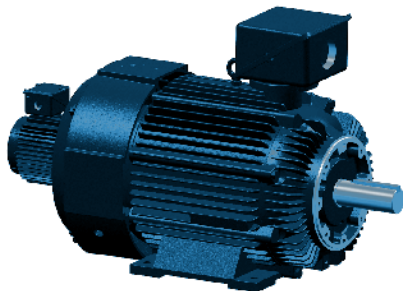
**320 TZ TENV**  
Non Ventilated, Special  
ODE Shaft, Encoder



**5007-5013 Vertical Frames**  
TENV and TEFC



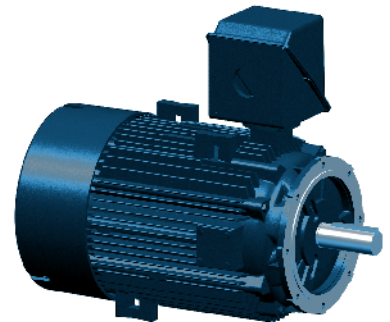
**400TC TEBC**  
Blower Cooled, C-Face, F3



**Marathon's "IntelliBrake"**  
Stearns & Dings Brakes  
with Imbedded Encoder



**440TD TEFC Round**  
Cast Iron, Round, D-Flange



SPECIALTY MOTORS

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C320A	143TTGN4062	*	80	C371A	---		78	C552	5KC48UN6052X	*	24	C1171	5KC38SN2510X	*	114
C321	SEE C321A		80	C371-(GE)	SEE G1531		31	C636	SEE S117		26	C1172	5KCR39UN2511X	*	114
C321A	145TTGN4337	*	80	C375	5KC42GN0066	*	32	C646	5KC36PNB169X	*	34	C1173	5KCR39UN2512X	*	114
C322	145TTGN7338	*	80	C376	5KC49TN0067	*	32	C659	5KCR48WN0566Y	*	30	C1187	5KC49NN0224X	*	24
C322A	145TTGN4338	*	80	C380	184TFR4320	*	56	C660	5KC49TN0568Y	*	30	C1203	SEE C203B		54
C323	SEE C323A		80	C381	182TFR4380	*	56	C661	5KC46GN0569Y	*	29	C1204	184TTFW8002	*	54
C323A	182TTGN4068	*	80	C381B	182TTFW16021	*	56	C662	5KC49SN2418U	*	30	C1223	182TTFW7634	*	54
C324	SEE C324A		80	C381-(GE)	SEE CG381		22	C663	5KC49NN2419Y	*	30	C1224	184TTFW8641	*	54
C324A	184TTGN4072	*	80	C382	SEE C382B		56	C664	5KC36LN4003Y	*	29	C1238	184TTFW8617	*	54
C325	213TTGS7067	*	80	C382B	182TTFW16030	*	56	C683	5KC36LN84X	*	115	C1243	5KC36JN2532X	*	136
C325A	213TTGN4067	*	80	C382-(GE)	SEE CG382		171	C702	5KC38RN4153Y	*	21	C1244	5KC36MN2533X	*	136
C326	SEE C326A		80	C383	182TFR4345	*	56	C703	5KC49RN2520Y	*	22	C1245	5KC38SN6084X	*	136
C326A	215TTGN4065	*	80	C383A	182TTFW4345	*	56	C704	5KC49PN2521Y	*	22,168	C1246	5KC39UN6086X	*	136
C327	SEE C327A		80	C383B	---	*	56	C732-(GE)	SEE CG732		115	C1247	5KCR39UN6190X	*	136
C327A	254TTGN14042	*	80	C383-(GE)	SEE CG383		171	C806	5KC49PN0281X	*	153	C1252	5KC49PN6070	*	21
C328	SEE C328A		80	C384	213TTFW4380	*	56	C847	5KC37NN115X	*	115	C1258	5KC49PN6051	*	24
C328A	256TTGN14044	*	80	C384A	213TTFW16078	*	56	C855	5KC49SN2156X	*	31	C1263	5KC48UN6073	*	21
C328-(GE)	SEE J1025		115,157	C384-(GE)	SEE CG384		171	C878	5KCR49TN2164T	*	115	C1264	5KC48UN6052	*	24
C329	5KC37FN65X	*	115	C385	184TFR4320	*	56	C1081	5KC39EN2553X	*	114	C1269	5KC49SN2537Y	*	28
C330	5KC36JN268X	*	115,157	C385B	184TTFW16006	*	56	C1082	5KC39HN2554X	*	114	C1270	5KC49ZN2539Y	*	28
C331	5KC36JN269X	*	115	C386	SEE C386B		56	C1083	5KC33MN2555X	*	114	C1273	5KC49SN8060T	*	140
C332	5KC39NN50X	*	115,157	C386A	184TTFW4340	*	56	C1084	5KC39SN2810X	*	114	C1274	5KCR49TN8058T	*	140
C333	5KC39QN3219X	*	115	C386B	184TTFW16027	*	56	C1085	5KCR39SN2557X	*	114	C1275	5KCR49ZN8061T	*	140
C334	5KC39RN44X	*	115,157	C387	184TFR4345	*	56	C1086	5KCR39UN2558X	*	114	C1284	5KCR48UN2496X	*	136
C335	5KC39RN45X	*	115	C387A	184TTFW4345	*	56	C1087	5KC39EN2500X	*	114	C1285	5KC46JN0722	*	107
C336	5KC49NN2140X	*	115,157	C387B	---	*	56	C1088	5KC39HN2501X	*	114	C1286	5KC47NN0723	*	107
C337	5KC49NN2167X	*	115	C388	SEE C388A		56	C1089	5KC33MN2502X	*	114	C1287	5KC49NN2514	*	107

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C1288	5KC49QN0724	*	107	C1459	5KC46GN0251Y	*	171	CG383	5KC35JNA489	*	171	E009	324TTC6081	*	60
C1289	5KC49RN2513	*	107	C1460	5KC46LN0252Y	*	171	CG384	5KC35JNA489Y	*	171	E010	326TTC6081	*	60
C1290	5KCR48QN0725	*	107	C1461	5KC46LN0252Y	*	171	CG393	5KC36MN20	*	23	E011	324TSTFC6006	*	60
C1291	5KC46GN0075U	*	102	C1462	5KC39HN2888X	*	114	CG732	5KC39RN114T	*	115	E012	364TTC6081	*	60
C1292	5KC46JN0076U	*	102	C1463	5KC33MN2889X	*	114	CG1104	5KC39UN2947T	*	138	E013	326TSTFC6006	*	60
C1293	5KCR49PN0077U	*	102	C1464	5KC39SN2890X	*	114	CG1105	5KC39UN2943X	*	138	E014	365TTC6081	*	60
C1294	5KC49UN0079U	*	102	C1465	5KCR39SN2891X	*	114	D010	56B34D2029	*	21,168,174	E015	364TSTFC6006	*	60
C1295	5KCR49WN0295U	*	102	C1466	5KCR39UN2892X	*	114	D012	SEE 9035		22,168	E016	365TSTFC6006	*	60
C1296	SEE G212		27	C1467	5KC37NN3544T	*	140	D013	SEE 9036		22,168	E095	143TTDR14004		119
C1297	SEE G256		27	C1468	5KC49NN2081T	*	140	D014	SEE 9031		21,168	E096	145TTDR4317	*	119
C1298	5KC46NN0758Y	*	21	C1469	5KC49PN0253	*	171	D015	SEE 9032		21,168,174	E097	182TTDW14029	*	120
C1299	5KCR48WN0756Y		22,168	C1474	5KC37LN502Y	*	21	D017	56B34D5302	*	22,168	E098	182TTDW4303	*	120
C1302	5KCR49SN0042S	*	104	C1475	5KC37NN501Y	*	21	D018	SEE C704		22,168	E12D4	5KS49HN4077	*	36
C1303	5KCR46NN0264T	*	104	C1477	5KC49PN2144Y	*	22	D107	48S17D2017	*	150	E34D4	5KS46MN4078	*	36
C1304	5KC38NN2520X	*	136	C1478	5KCR49SN3009X	*	25,152	D110	SEE C1152		24,152	E100	143TTDR4035	*	119
C1305	5KC38SN6085X	*	136	C1479	5KCR48TN3084X	*	25,152	D111	56C17D2079	*	24,152	E102	145TTDR4034	*	119
C1306	5KC39UN2522X	*	136	C1480	5KC49PN0161U	*	21,168,174	D113	SEE D1113		24,152	E104	145TTDR4060	*	119
C1307	5KCR48UN2493X	*	136	C1483	5KC46LN0254X		26	D114	SEE C1158		24,152	E105	145TTDR4303		120
C1308	5KCR48UN2494X	*	136	C1484	5KC36JN2922X	*	136	D115	56B34D2027	*	25,152	E106A	182TTDW4033	*	120
C1310	5KC49PN2113X	*	136	C1485	5KCR39PN2920X	*	138	D116	SEE C1161		152	E107A	182TTDW4002	*	120
C1311	5KC39UN2560T	*	136	C1486	5KCR39PN2921X	*	138	D117	SEE C1155		24,152	E108	184TTDR4034	*	120
C1312	5KCR49SN2095X	*	136	C1487	5KCR49SN2085X	*	138	D118	56C34D2106	*	24,152	E109A	184TTDW4002	*	120
C1313	5KCR49UN2096X	*	136	C1488	5KCR49SN2086X	*	138	D119	48C17D2055	*	152	E110	213TTDW4047	*	121
C1314	5KCR49PN0492S	*	104	C1489	5KC46PN0359Y	*	171	D127	SEE 4305		150	E111	213TTDW4022	*	121
C1315	5KCR49SN0493S	*	104	C1499	5KCR38SN6147X	*	136	D129	SEE 4306		150	E112	215TTDW4047	*	121
C1316	5KCR39UN6113X	*	134	C1500	5KCR39UN6148X	*	136	D143	48S17D2086	*	151	E113	215TTDW4022		121
C1318	5KC39PN2822X	*	138	C1502	5KC46KN2408X	*	137	D145	SEE H167		151	E114A	254TTDX14062	*	121
C1319	5KCR39SN2823X	*	138	C1503	5KCR39UN6097X	*	134	D149	56S17D2050	*	151	E115	143TTDR4040		119
C1320	5KCR39UN2824X	*	138	C1504	5KCR39UN6098X	*	134	D162	48S17D2087	*	151	E116	143TTDR4047		119
C1321	5KC33JN2825X	*	138	C1510	5KCP46KN9075X	*	137	D163	48S17D2088	*	151	E117	143TTDR4041		119
C1322	5KC33NN2899X	*	134	C1801	5KC49MN6384X	*	34	D164	SEE 4338		151	E118	143TTDR4034	*	119
C1323	5KC39RN2901X	*	134	C1802	SEE G650		34	D180	48S17D7204		150	E119	143TTDR4046		119
C1324	5KC39RN2902X	*	134	C1803	5KC49HN0719X	*	34	D181	48S17D7205		151	E120	143TTDR4016		119
C1326	5KCR39UN2903X	*	134	C1804	5KC49HN0713X	*	34	D311	56C34F5301	*	33	E121	143TTDR4022		119
C1327	5KCR39UN2904X	*	134	C1805	SEE G652		34	D312	56C34F5302	*	33	E122	143TTDR4017		119
C1333	5KC49PN6062	*	29	C1806	5KC49HN2508X	*	34	D313	56C34F5303	*	33	E123	143TTDR4009	*	119
C1335	5KCR48UN2492X	*	136	C1807	5KC49QN0716X	*	34	D314	56B34F5326	*	33	E124	143TTDR4024		119
C1336	5KC33FN4180X	*	115	C1808	SEE G654		34	D315	56B34F5327	*	33	E125	145TTDR4040		119
C1380	184TTFW4380	*	56	C1809	5KC49SN6375X	*	34	D316	56B34F5328	*	33	E126	145TTDR4072		119
C1381	SEE C381B		56	C1810	5KC49QN4559X	*	34	D390	56T34T5303	*	55	E127	145TTDR4041		119
C1382	SEE C382B		56	C1811	5KC49QN0717X	*	34	D391	56T34F5301	*	55	E128	145TTDR4035	*	119
C1385	SEE C385B		56	C1812	SEE G853		35	D392	56T34F5302	*	55	E129	145TTDR4047		119
C1404	5KC49UN6067	*	31	C1813	5KC49HN2510X	*	35	D393	56T34F5303	*	55	E130	145TTDR4015		119
C1405	5KC35MN145	*	32	C1814	5KC49HN2509X	*	35	D394	56T34F5304	*	56	E131	145TTDR4021		119
C1412	5KCR49WN6078	*	32	C1815	SEE G855		35	D395	56T34F5305	*	56	E132	145TTDR4016		119
C1419	5KC33FN31	*	31	C1816	5KC49QN0718X	*	35	D396	56T34F5306	*	56	E133	145TTDR4010	*	119
C1420	5KC36LN144	*	32	C1817	5KC49SN6380X	*	35	D400	56C17F5352	*	99	E134	145TTDR4022		119
C1422	5KC48UN6072	*	31	C1818	5KC49MN6379X	*	35	D401	56C17F5353	*	99	E135	145TTDR4066		119
C1423	5KC49MN6063	*	32	C1902	5KC38NN3663X	*	134	D402	56C17F5354	*	99	E136	145TTDR4046		119
C1424	5KC49SN2158	*	31	C1903	5KC38RN3662X	*	134	D403	56C17F5355		99	E137	145TTDR4067		119
C1425	5KC49PN0283	*	32	C1904	5KCR49ZN0564Y	*	101	D404	56B17F5330		99	E138	145TTDR4051	*	119
C1429	5KC33NN4099X	*	134	C1905	5KC39SN6139X	*	134	D450	56T17F5348	*	100	E139	145TTDR4073		119
C1436	5KCR39PN2905X	*	138	C1909	5KCR49ZN0785S	*	104	D451	56T11F5325		100	E140	145TTDR4115		120
C1437	5KCR39PN2906X	*	138	CG105	5KC35JN27Y	*	23	D452	56T17F5349	*	100	E141	145TTDR4121		120
C1439	5KCR49ZN2111X	*	138	CG111	5KC37LN91	*	23	D453	56T11F5326	*	100	E142	145TTDR4307		120
C1440	5KCR49ZN2092X	*	138	CG201	5KC35JN12X	*	24	D454	56T17F5350	*	100	E143	145TTDR4110		120
C1442	5KCR48UN3016X	*	138	CG223	5KC49GN0001X	*	24	D455	56T11F5327		100	E144	145TTDR4025		120
C1443	5KCR48UN3017X	*	138	CG230	5KC46LN0158	*	24,152	D456	56T17F5357	*	100	E145	182TTDR4140		120
C1445	5KCR49ZN2497X	*	136	CG232	5KCR49WN6077	*	24	D457	56T17F5358	*	100	E146	182TTDR4146		120
C1446	5KCR38PN6146X	*	136	CG236	5KC49PN0155X	*	24	D1113	5KC46LN0158X	*	24,152	E147	182TTDR4036		120
C1449	5KCR49ZN2499X	*	136	CG239	5KCR49SN0012X	*	25	E001	182TTC6081	*	58	E148A	182TTDW4135	*	120
C1450	5KCR48PN2112X	*	136	CG251	5KC32GN19X	*	29	E002	184TTC6081	*	59	E149A	182TTDW4147		120
C1453	5KC39JN2895X	*	134	CG260	5KC37RN35	*	29	E003	213TTC6081	*	59	E150	182TTDR4116		120
C1454	5KC33NN2896X	*	134	CG361	5KC46LN0159	*	27	E004	215TTC6081	*	59	E151	182TTDR4122		120
C1455	5KCR39SN2897X	*	134	CG362	5KC46LN0159X	*	27	E005	254TTC6081	*	59	E152	182TTDR4117		120
C1456	5KCR39UN2898X	*	134	CG363	5KC49PN0163X	*	27	E006	256TTC6081	*	60	E153A	182TTDW4111	*	120
C1457	5KC33NN2900X	*	134	CG381	5KCR49WN0270T	*	22	E007	284TTC6081	*	60	E154	182TTDR4123		120
C1458	5KC46GN0251	*	171	CG382	5KC35GNA488	*	171	E008	286TTC6081	*	60	E155	184TTDR4140		120



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E156	184TTDR4146		120	E237	284TTFNA6076	*	60	E302-(GE)	SEE EG302		110	E407	445TTFN6591		72
E157	184TTDR4141		120	E238	286TTFNA6076	*	60	E303	182TTTS6030	*	59	E408	449TTFS6582		72
E158A	184TTDW4135	*	120	E239	324TTFS6076	*	60	E303-(GE)	SEE EG303		110	E448	445TTFN6587	*	72
E159	184TTDR4147		120	E240	326TTFS6076	*	61	E304-(GE)	SEE EG304		110	E449	445STFN6505	*	72
E160	184TTDR4115		120	E241	SEE E241A		61	E305-(GE)	SEE EG305		110	E450	445TTFN6540		72
E161	184TTDR4121		120	E241A	364TTFS16083	*	61	E306	215TTFS6030		60	E453	326STFS6536		71
E162	184TTDR4116		120	E242	SEE E242A		61	E306-(GE)	SEE EG306		110	E454	364STFS6526		71
E163A	184TTDW4110	*	120	E242A	365TTFS16083	*	61	E307	254TTFNA6030	*	60	E455	365STFS6526	*	72
E164	184TTDR4122		120	E243	404TTFS6086	*	61	E307-(GE)	SEE EG307		110	E456	405STFS6526	*	72
E165	213TTDW4042		121	E244	405TTFS6086	*	61	E308	256TTFNA6030	*	60	E457	444STFS6526	*	72
E166	213TTDW4041		121	E246	445TTFN6086	*	61	E308-(GE)	SEE EG308		110	E458	445STFN6526	*	72
E167	213TTDW4033		121	E247	445TTFN6038	*	62	E309	284TTFNA6030	*	60	E459	445STFN6528	*	72
E168	213TTDW4048	*	121	E250	5KCR46JN0083Y	*	28	E309-(GE)	SEE EG309		110	E461	143TTTN6563	*	69
E169	213TTDW4038		121	E251	5KCR46JN0084	*	27	E310	286TTFNA6030	*	60	E462	145TTTN6584		69
E170	213TTDW4009		121	E252	5KCR46JN0083X	*	28	E310-(GE)	SEE EG310		110	E463	143TTTN6502		69
E171	213TTDW4010		121	E253	5KCR46JN0085	*	21	E311	324TTFS6030	*	61	E464	145TTTN6834	*	69
E172	213TTDW4008		121	E254	5KCR46JN0086X	*	24	E311-(GE)	SEE EG311		110	E465	182TTTS6578		69
E173	213TTDW4023		121	E255	5KCR46JN0087Y	*	32	E312	326TTFS6030	*	61	E466	145TTTN6521		69
E174	213TTDW4007		121	E256	5KCR46JN0088	*	31	E312-(GE)	SEE EG312		110	E467	145TTTN6835	*	70
E175	215TTDW4041		121	E257	5KCR46JN0087X	*	32	E313	364TTFS6040	*	61	E468	184TTTS6582	*	70
E176	215TTDW4042		121	E258	5KCR46JN0089	*	29	E314	405TTFS6040	*	61	E470	182TTTS6538	*	70
E177	215TTDW4043		121	E259	5KCR46MN0090Y	*	28	E315	365TTFS6040	*	61	E471	213TTFS6594	*	70
E178	215TTDW4048	*	121	E260	5KCR46MN0091	*	27	E316	444TTFS6044		61	E472	184TTFS6810	*	70
E179	215TTDW4032		121	E261	5KCR46MN0090X	*	28	E317	445TTFN6037		62	E473	184TTFS6844	*	70
E180	215TTDW4008		121	E262	5KCR46MN0092	*	21	E319	324STFS6005		61	E474	215TTFS6881	*	70
E181	215TTDW4009		121	E263	5KCR46MN0054X	*	24	E320	326STFS6005		61	E475	213TTTS6502	*	70
E182	215TTDW4010		121	E264	5KCR46MN0055Y	*	32	E321	364STFS6005		61	E476	213TTFS6531	*	70
E183	215TTDW4023	*	121	E265	5KCR46MN0093	*	31	E322	365STFS6002		61	E477	254TTFNA6590	*	70
E184	215TTDW4007		121	E266	5KCR46MN0055X	*	32	E323	405STFS6005		61	E478	215TTFS6807	*	70
E185	254TTDX4343		121	E267	5KCR46MN0094	*	29	E324	444STFS16002		61	E479	215TTFS6527	*	70
E186	254TTDX4344		121	E268	5KCR49PN0095Y	*	28	E326	445TTFN6039		62	E480	256TTFNA6596	*	70
E187	254TTDX4345		121	E269	5KCR49PN0096	*	27	E327	444TTFN16577		72	E481	254TTFNA6515	*	71
E188	254TTDX4039	*	121	E270	5KCR49PN0095X	*	28	E328	444TTFN6086	*	61	E482	254TTFNA6529	*	71
E190	254TTDX4007		121	E271	449STFS6003		62	E342	445STFN16004	*	62	E483	284TTFNA6876	*	71
E191	254TTDX4006	*	121	E271-(GE)	SEE EG271		21	E345	449TTFS16534		73	E484	256TTFNA6523	*	71
E192	254TTDX4019		121	E272	449STFS6002		62	E351	143TTTN6001	*	58	E485	256TTFNA6529	*	71
E193	254TTDX4015		121	E272-(GE)	SEE EG272		24	E353	145TTTN6001	*	59	E486	286TTFNA6876		71
E194	254TTDX4020		121	E273	449STFS6001		62	E362	---		73	E488	284TTFNA6837	*	71
E195	254TTDX4024		121	E273-(GE)	SEE EG273		32	E363	5013LSTFS6595		73	E490	286STFNA6804	*	71
E197	256TTDX4075	*	122	E274	5KCR49PN0100	*	31	E364	5011LSTFS16031		73	E491	286TTFNA6570	*	71
E198	256TTDX4326		122	E275	5KCR49PN0099X	*	32	E365	---		73	E493	405STFS6502		72
E199	256TTDX4329		122	E276	449TTFS6038		62	E366	5011LSTFS16033		73	E494	444STFS6505		72
E205	254TTFNA6026	*	60	E276-(GE)	SEE EG276		29	E369	---		73	E495	445STFN6502		72
E206	256TTFNA6026	*	60	E277	449TTFS6037		62	E373	143TTFN6576		69	E496	445STFN6506		72
E207	284TTFNA6026	*	60	E277-(GE)	SEE EG277		28	E374	143TTFN6526		69	E500	254TTGN6576	*	83
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GT1305	182TTFB6079	*	66	H172	5KH37PN33X	*	150	H247	5KH42JN0328S	*	104	H675	5KH33FNA230	*	25
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GT1311	213TTFBA6079	*	66	H176	5KH49PN3026X	*	151	H276	5KH42JN0328	*	104	H680-(GE)	SEE HG680		113
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GT1313	184TTFB6029	*	66	H178-(GE)	SEE HG178		153	H278	5KH37PN37X	*	155	H682	5KH32ENA443X	*	113
GT1314	215TTFBA6079	*	66	H180	143TTDR5401		36	H280	5KH49UN3024X	*	155	H683	5KH33GNA444X	*	113
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GT1319	215TTFBA6029	*	66	H182-(GE)	SEE HG182		153	H288	5KH49SN3023X	*	155	H691	5KH36LN488X	*	23
GT1401	143TTFR16039	*	66	H183A	184TTDW7101		37	H290	5KH36MN137	*	155	H690-(GE)	SEE HG690		25
GT1404	145TTFR16046	*	66	H184	SEE H184A		37	H291	5KH32EN72X	*	153	H692-(GE)	SEE HG692		26
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GT1407	145TTFR16047	*	66	H185	SEE H185A		38	H296	5KH49SN3046	*	150	H694-(GE)	SEE HG694		151
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GT1421	---	*	67	H188	SEE H188A		38	H454	5KH32ENB168X	*	34	H703-(GE)	SEE HG703		151
GT1422	---	*	67	H188A	284TTDN14102		38	H455-(GE)	SEE HG455		34	H704-(GE)	SEE HG704		150
H112	5KH37PN39	*	150	H188-(GE)	SEE HG188		153	H456-(GE)	SEE HG456		34	H705-(GE)	SEE HG705		151
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H131	5KH39QN9631T	*	151	H196-(GE)	SEE HG196		104	H604	145TTDR5327	*	37	H804	SEE X920		167
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H154-(GE)	SEE HG154		150	H215	5KH46MN6071X	*	155	H631	SEE U901		39	H821	SEE H821A		39
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5KC36LN144	C1420	*	32	5KC39RN383X	C1157	*	24,152	5KC49HN0713X	C1804	*	34	5KC49SN8060T	C1273	*	140
5KC36LN144X	C444	*	32	5KC39RN44X	C334	*	115,157	5KC49HN0719X	C1803	*	34	5KC49TN00033	C295	*	30
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5KC36LN18	C431	*	21	5KC39SN2810X	C1084	*	114	5KC49HN2509X	C1814	*	35	5KC49TN00034X	C276	*	30
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5KCP46LN9246X	RB303		137	5KCP49ZN9315X	RB818	*	133	5KCR48UN0103	E278	*	27	5KCR49UN2090X	C1102	*	138
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5KCP49SN9306X	RB716	*	133	5KCR46MN0091	E260	*	27	5KCR49SN3009	C475	*	25,152	5KE49UN8429	K2039	*	55
5KCP49SN9312X	RB815	*	133	5KCR46MN0092	E262	*	21	5KCR49SN3009X	C1478	*	25,152	5KE49WN4571	K2045	*	99
5KCP49TNN9173X	RB136	*	135	5KCR46MN0093	E265	*	31	5KCR49SN3010	C476	*	25,152	5KE49WN4572	K2046	*	99
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184TTDR7287	Y486	*	170	184TTFR4003	U611		49	184TTGN6544	U990A		82	213TTDB6026	GT0016	*	45
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184TTDW6076	U1267	*	42	184TTFS6501	E602	*	70	184TTWW4028	N658B	*	109	213TTDW4012	U190		129
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184TTDW16027	E938A	*	42	184TTFW4915	U360	*	125	213TBFW7026	I216	*	30	213TTDW4048	E168		121
184TTDW16038	U428B	*	38	184TTFW8915	M416A	*	125	213TBFW7027	Z117	*	102	213TTDW4049	U183		128
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184TTFB6003	GT1212	*	66	184TTFW7727	H1668	*	49	213TCDW7026	I117		22	213TTDW4062	U431		38
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184TTFB6028	GT1213	*	66	184TTFW8617	C1238	*	54	213TCDW7028	Z428		126	213TTDW4071	U926		38
184TTFB6029	GT1313	*	66	184TTFW8641	C1224	*	54	213TCDW7076	I143		22	213TTDW4076	E731	*	38
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184TTFC6005	GT1112	*	63	184TTFW16006	C385B	*	56	213THFS9076	W521	*	74	213TTDW7023	M324	*	121
184TTFC6006	U615A	*	59	184TTFW16020	E2137		59	213THFW7726	Y994	*	88	213TTDW7024	M118	*	129
184TTFC6026	GT1013	*	63	184TTFW16026	E2113	*	59	213THFW7736	Y995		88	213TTDW7049	M117	*	128
184TTFC6027	U618A	*	59	184TTFW16027	C386B	*	56	213THTL7726	Y545	*	89	213TTDW7053	H955		176
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213TTDW7202	Y488		170	213TTFW4380	C384	*	56	215TBDW7045	Z430		126	215TTDW4041	E175		121
213TTDW14013	U189A	*	129	213TTFW6001	E2015	*	62	215TBDW7079	I144		22	215TTDW4042	E176		121
213TTDW14014	C106A	*	40	213TTFW6026	E2016	*	62	215TBDW7362	Z126		141	215TTDW4043	E177		121
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213TTDW14059	U186A		128	213TTFW7007	C205	*	54	215TBFW7010	Z435	*	118	215TTDW4047	E112		121
213TTDW14102	H184A		37	213TTFW7008	M881		196	215TBFW7026	I215	*	30	215TTDW4048	E178		121
213TTDW16010	U432A		41	213TTFW7022	M409		125	215TBFW7027	I217	*	30	215TTDW4049	U195		129
213TTDW16060	U430A	*	38	213TTFW7028	H669	*	49	215TBFW7028	Z115	*	102	215TTDW4051	U196		129
213TTDW16061	U926A		38	213TTFW7047	M410	*	125	215TBFW7029	Z122	*	101	215TTDW4052	U199		129
213TTDW16063	U405A	*	41	213TTFW7083	M877		196	215TBFW7044	Z116	*	102	215TTDW4053	U197		129
213TTFBA4026	E1955	*	49	213TTFW14011	C205A	*	54	215TCDW7002	Z412	*	118	215TTDW4062	U431		134
213TTFBA6003	GT1215	*	66	213TTFW14045	C225A	*	54	215TCDW7003	Z308	*	105	215TTDW4076	E732	*	38
213TTFBA6004	GT1315	*	66	213TTFW14081	C253A		54	215TCDW7004	Z431	*	126	215TTDW4078	E935	*	38
213TTFBA6028	GT1216	*	66	213TTFW16001	E2115	*	59	215TCDW7012	Z314		105	215TTDW4315	U435		41
213TTFBA6029	GT1316	*	66	213TTFW16008	C389A	*	57	215TCDW17002	I106	*	22	215TTDW4335	U433		41
213TTFBA6078	GT1211	*	66	213TTFW16020	E2140		59	215THFS8029	Y596	*	91	215TTDW7022	M327	*	121
213TTFBA6079	GT1311	*	66	213TTFW16026	E2116	*	59	215THFS9001	W537	*	75	215TTDW7023	M328	*	121
213TTFC4076	U610	*	59	213TTFW16035	C390A	*	57	215THFS9026	W539	*	75	215TTDW7025	M168		129
213TTFC6001	GT1015	*	63	213TTFW16036	C391A	*	57	215THFS9076	W527	*	75	215TTDW7028	H619	*	38
213TTFC6002	U624A	*	59	213TTFW16040	E2141	*	59	215THFS9101	W522		74	215TTDW7044	M810		195
213TTFC6005	GT1115	*	63	213TTFW16076	E2111	*	59	215THFS19006	W538		75	215TTDW7048	M326	*	121
213TTFC6006	U671A	*	59	213TTFW16078	C384A	*	56	215THFS19033	W540	*	75	215TTDW7049	M119	*	129
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213TTFC6027	U629A	*	59	213TTGN6501	U062A	*	83	215THFW7726	Y996	*	88	215TTDW7053	H956	*	176
213TTFC6030	GT1116	*	63	213TTGN6526	U006A	*	83	215THFW7736	Y997		88	215TTDW7201	Y491		170
213TTFC6031	U631A	*	59	213TTGN6528	C366A	*	78	215THHL7726	Y547	*	89	215TTDW7203	Y415	*	170
213TTFC6076	GT1011	*	63	213TTGN6536	C370A		78	215THHL7736	Y561	*	89	215TTDW7204	Y455	*	170
213TTFC6077	U610A	*	59	213TTGN6540	U991A		83	215THHL7776	Y544	*	89	215TTDW7205	Y469	*	170
213TTFC6080	GT1111	*	63	213TTGN6576	U042A	*	82	215THS8038	Y566	*	91	215TTDW7301	Y304	*	105
213TTFC6081	E003	*	59	213TTGN16537	U025A	*	83	215HTS8071	Y991	*	93	215TTDW7376	Y201		173
213TTFN4103	L411A	*	50	213TTGS1001	U944	*	77	215TTDB6001	GT0021	*	45	215TTDW7377	Y202	*	173
213TTFN6550	U869A	*	68	213TTGS1076	U940	*	77	215TTDB6007	GT0421	*	123	215TTDW7380	M805		195
213TTFS4001	U624	*	59	213TTGS4001	U062	*	81	215TTDB6008	GT0521	*	123	215TTDW7612	M813		195
213TTFS4005	U671	*	51	213TTGS4030	U025	*	81	215TTDB6026	GT0019	*	45	215TTDW14020	U201A	*	129
213TTFS4030	U631	*	51	213TTGS4076	U042	*	81	215TTDB6032	GT0419	*	123	215TTDW14071	C126A		40
213TTFS4550	U869	*	68	213TTGS7067	C325	*	80	215TTDB6033	GT0519	*	123	215TTDW14073	U198A		129
213TTFS6501	E396		70	213TTGS14015	C305	*	80	215TTDB6076	GT0014	*	45	215TTDW14110	H185A		38
213TTFS6526	E618	*	70	213TTTL7034	C407	*	100	215TTDBA4026	E721	*	39	215TTDW16061	U433A		41
213TTFS6530	E671	*	70	213TTTS6001	E218	*	59	215TTDBA7047	M325	*	121	215TTDW17206	Y490		170
213TTFS6531	E476	*	70	213TTTS6501	E603	*	70	215TTDC6001	U766	*	43	215TTFBA4026	E1956	*	49
213TTFS6576	E634	*	70	213TTTS6502	E475	*	70	215TTDC6003	U286	*	43	215TTFBA6003	GT1218	*	67
213TTFS6594	E471	*	70	213TTTS6505	E656	*	70	215TTDC6026	U765	*	42	215TTFBA6004	GT1318	*	66
213TTFS7238	Y381		169	213TTTS17077	S507		172	215TTDC6029	U284	*	42	215TTFBA6028	GT1219	*	67
213TTFS8103	L411	*	51	213TTTS17078	S557		172	215TTDC6076	U269	*	42	215TTFBA6029	GT1319	*	66
213TTFW4003	U622		49	213TTWD6031	N408A	*	112	215TTDC6079	U280	*	42	215TTFBA6078	GT1214	*	66
213TTFW4005	U625		49	213TTWD14031	N408	*	112	215TTDW4003	E788	*	38	215TTFBA6079	GT1314	*	66
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213TTFW4008	U742		57	213TTWR4002	N617	*	110	215TTDW4008	E180		121	215TTFC6001	GT1018	*	63
213TTFW4009	U327		125	213TTWR4026	N618	*	110	215TTDW4009	E181		121	215TTFC6002	U636A	*	60
213TTFW4010	U331		125	213TTWR4027	N318	*	108	215TTDW4010	E182		121	215TTFC6005	GT1118	*	63
213TTFW4011	U328		130	213TTWR6002	N617A	*	110	215TTDW4011	U200		129	215TTFC6006	U637A	*	60
213TTFW4012	U332		130	213TTWR6026	N618A	*	110	215TTDW4012	U202		129	215TTFC6026	GT1019	*	63
213TTFW4022	U329		125	213TTWR6027	N318A	*	108	215TTDW4013	U203		129	215TTFC6027	U639A	*	60
213TTFW4028	U627		49	213TTWR7026	N660	*	109	215TTDW4014	U205		129	215TTFC6030	GT1119	*	63
213TTFW4030	U630	*	49	215TBDW7361	Z125		141	215TTDW4022	E113		121	215TTFC6031	U641A	*	60
213TTFW4038	U335		125	215TBDW7013	Z315		105	215TTDW4023	E183		121	215TTFC6076	GT1014	*	63
213TTFW4047	U334		125	215TBDW7026	I115	*	22,168	215TTDW4025	U204		129	215TTFC6077	U621A	*	59
213TTFW4076	E980	*	48	215TBDW7027	Z413	*	118	215TTDW4062	U431		38	215TTFC6080	GT1114	*	63
213TTFW4320	C389	*	57	215TBDW7028	I116	*	22,168	215TTDW4028	E907	*	38	215TTFC6081	E004	*	59
213TTFW4340	C390	*	57	215TBDW7029	Z411	*	118	215TTDW4030	E759	*	38	215TTFN6546	U870A	*	68



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215TFS4030	U641	*	51	215TTGN16532	U026A	*	83	254TTDX4060	U209		129	254TTFL14076	U632	*	49
215TFS4546	U870	*	68	215TTGS4026	U007	*	83	254TTDX4065	U436	*	41	254TTFL14078	C255A		54
215TFS6030	E306		60	215TTGS4028	C367A	*	78	254TTDX4074	U206		129	254TTFL16002	E2121	*	60
215TFS6501	E604	*	70	215TTGS4030	U026	*	81	254TTDX4075	U207		129	254TTFL16020	E2146		60
215TFS6505	E657		70	215TTGS14020	C306	*	80	254TTDX4076	E733	*	38	254TTFL16026	E2122	*	60
215TFS6526	E619	*	70	215TTTTL7050	C408	*	100	254TTDX4315	U437		41	254TTFL16040	E2147	*	60
215TFS6527	E479	*	70	215TTTS17077	S510	*	172	254TTDX4340	U208		129	254TTFL16076	E2117	*	59
215TFS6530	E672	*	70	215TTTS17078	S560	*	172	254TTDX4341	U211		129	254TTFNA4030	U648	*	51
215TFS6576	E635	*	70	215TTWD6031	N409A	*	112	254TTDX4343	E185		121	254TTFNA4549	U871	*	68
215TFS6580	E683		70	215TTWD14031	N409	*	112	254TTDX4344	E186		121	254TTFNA6001	E220	*	60
215TFS6807	E478	*	70	215TTWR4026	N619	*	110	254TTDX4345	E187		121	254TTFNA6026	E205	*	60
215TFS6881	E474	*	70	215TTWR6026	N619A	*	110	254TTDX7008	M330	*	121	254TTFNA6030	E307	*	60
215TFS7290	Y382	*	169	215TTWR6027	N319A	*	108	254TTDX7028	H622	*	38	254TTFNA6076	E235	*	59
215TFS8101	L421	*	51	215TTWR7026	N661	*	109	254TTDX7042	M121	*	129	254TTFNA6501	E605	*	71
215TFS14103	L421A	*	50	225MTFC6586	R347A	*	97	254TTDX7043	M122	*	129	254TTFNA6503	E658		71
215TFW4001	E969	*	49	225STFC6526	R349A	*	97	254TTDX7046	M353	*	121	254TTFNA6515	E481	*	71
215TFW4003	U634		49	250MTFC6586	R350A	*	97	254TTDX7088	M808		195	254TTFNA6526	E620	*	71
215TFW4005	E821		49	254THEN8058	Y982	*	92	254TTDX7090	C155		40	254TTFNA6528	E673	*	71
215TFW4007	U670	*	49	254THEN8059	Y983	*	92	254TTDX7201	Y470		170	254TTFNA6529	E482	*	71
215TFW4013	U743		57	254THFNA8038	Y597	*	91	254TTDX7208	Y418	*	170	254TTFNA6576	E636	*	70
215TFW4014	U336		126	254THFNA9001	W544	*	75	254TTDX7278	Y456	*	170	254TTFNA6578	E684		70
215TFW4015	U338		126	254THFNA9026	W546	*	75	254TTDX7377	Y203		173	254TTFNA6590	E477	*	70
215TFW4022	U337		126	254THFNA9030	W547		75	254TTDX7648	M814		195	254TTFNA7078	M883		196
215TFW4028	E822		49	254THFNA9076	W534	*	75	254TTDX8338	H957		176	254TTFNA7210	Y383		169
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215TFW4033	U718		57	254HTL5726	Y549	*	89	254TTDX14089	C155A		40	254TTFNA16568	U871A	*	68
215TFW4035	U339		126	254HTL5736	Y562	*	89	254TTDX14104	H186A	*	38	254TFPA4005	U638		51
215TFW4036	U341		126	254HTL5776	Y546	*	89	254TTFC4076	U633	*	51	254TFPA8102	L412	*	51
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215TFW4320	C392	*	57	254HTNA8071	Y992	*	93	254TTFC6006	U638A	*	60	254TTGN4030	U027	*	81
215TFW4340	C393	*	57	254TTDC6001	U768	*	43	254TTFC6027	U647B	*	60	254TTGN6507	E502		83
215TFW4345	C394		57	254TTDC6003	U289	*	43	254TTFC6031	U648A	*	60	254TTGN6531	E503	*	83
215TFW6001	E2018	*	62	254TTDC6026	U767	*	43	254TTFC6077	U633A	*	59	254TTGN6576	E500		83
215TFW6026	E2019	*	62	254TTDC6029	U287	*	43	254TTFC6081	E005	*	59	254TTGN14042	C327A	*	80
215TFW6076	E2014	*	62	254TTDC6076	U254	*	42	254TTFCA6001	GT1021	*	63	254TTGN16541	U027A	*	83
215TFW7022	M417	*	126	254TTDC6079	U282	*	42	254TTFCA6003	GT1221	*	67	254TTGP7021	C307		80
215TFW7028	H670	*	49	254TTDCA6001	GT0024	*	45	254TTFCA6005	GT1121	*	63	254TTGP14013	C307A	*	80
215TFW7044	M885		196	254TTDCA6007	GT0424	*	124	254TTFCA6026	GT1022	*	63	254TTTNA17077	S513	*	172
215TFW7047	M412	*	126	254TTDCA6008	GT0524	*	124	254TTFCA6028	GT1222	*	67	254TTTNA18530	S518		172
215TFW7088	M880		196	254TTDCA6026	GT0022	*	45	254TTFCA6030	GT1122	*	63	256TBDX7028	Z127		141
215TFW7096	C254		54	254TTDCA6032	GT0422	*	123	254TTFCA6078	GT1017	*	63	256THEN17031	Y984		92
215TFW7317	M884		196	254TTDCA6033	GT0522	*	123	254TTFCA6078	GT1217	*	66	256THFNA8038	Y598	*	91
215TFW14022	C237A	*	54	254TTDCA6076	GT0017	*	45	254TTFCA6080	GT1117	*	63	256THFNA9001	W551	*	75
215TFW14024	C206A	*	54	254TTDN16056	U436A	*	41	254TTFL4006	U344		126	256THFNA9026	W553	*	75
215TFW14041	C226A	*	54	254TTDX4006	E191		121	254TTFL4009	U343		130	256THFNA9076	W541		75
215TFW14084	C254A		54	254TTDX4007	E190		121	254TTFL4010	U346		126	256THFNA9101	W536		75
215TFW14301	U357	*	126	254TTDX4008	U214		129	254TTFL4011	U356		130	256THFNA19033	W554	*	75
215TFW14302	U366		130	254TTDX4010	U215		129	254TTFL4031	U348		126	256THFNA19081	W542		75
215TFW16001	E2118	*	60	254TTDX4012	U216		129	254TTFL4033	U721		57	256HTL5776	Y548	*	89
215TFW16005	C392A	*	57	254TTDX4014	U212		129	254TTFL4034	U347		126	256HTNA7026	Y552	*	89
215TFW16020	E2143		60	254TTDX4015	E193		121	254TTFL4035	U723		57	256HTNA7036	Y563	*	89
215TFW16026	E2119	*	60	254TTDX4016	U217		129	254TTFL4036	U349		126	256HTNA8038	Y510	*	91
215TFW16040	E2144	*	60	254TTDX4017	U213		129	254TTFL5003	M213	*	130	256HTNA8071	Y993	*	93
215TFW16041	C393A	*	57	254TTDX4018	U900		39	254TTFL5004	M413	*	126	256TTDC6001	U770	*	43
215TFW16076	E2114	*	59	254TTDX4019	E192		121	254TTFL5040	C227	*	54	256TTDC6003	U291	*	43
215TFW16079	C388A	*	56	254TTDX4020	E194		121	254TTFL14004	U643		49	256TTDC6026	U769	*	43
215TTGN4065	C326A	*	80	254TTDX4024	E195		121	254TTFL14005	U645		49	256TTDC6029	U290	*	43
215TTGN6501	U063A	*	83	254TTDX4028	E908	*	38	254TTFL14008	U345A	*	130	256TTDC6076	U255	*	42
215TTGN6526	U007A	*	83	254TTDX4030	E760	*	38	254TTFL14009	C207A		54	256TTDC6079	U285	*	42
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256TTDCA6008	GT0527	*	124	256TTFL4006	U351		126	284HTNA7026	Y553	*	89	284TTDP7644	H628	*	39
256TTDCA6026	GT0025	*	45	256TTFL4010	U350		126	284HTNA7036	Y567	*	89	284TTDP7692	Y215	*	173
256TTDCA6032	GT0425	*	124	256TTFL4012	U352		126	284TSHFNA9001	W558	*	75	284TTDP14009	U109A	*	122
256TTDCA6033	GT0525	*	124	256TTFL4031	U354		126	284TSHFNA9005	W559		75	284TTDP14044	U228A	*	130
256TTDCA6076	GT0020	*	45	256TTFL4036	U353		126	284STDC6001	U772	*	43	284TTDR8097	M815		195
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256TTDX4006	U103		122	256TTFL14030	E998		49	284STDP4004	U901		39	284TTFC6077	E978A	*	60
256TTDX4013	E786	*	39	256TTFL15027	H274		49	284STDP4062	U440		41	284TTFC6081	E007	*	60
256TTDX4019	U104		122	256TTFL16002	E2123	*	60	284STDP4306	U441	*	41	284TTFCA6026	GT1028	*	64
256TTDX4020	U501		131	256TTFL16020	E2148		60	284STDP8618	Y625		131	284TTFCA6028	GT1228	*	67
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256TTDX4022	U224		129	256TTFL16040	E2149	*	60	284STFC6006	U654A	*	60	284TTFCA6076	GT1023	*	63
256TTDX4023	U226		129	256TTFL16076	E2120	*	60	284STFC6036	E999A	*	60	284TTFCA6080	GT1123	*	63
256TTDX4024	U500		131	256TTFL16080	E2145		60	284STFCA6001	GT1027	*	64	284TTFNA6026	E207	*	60
256TTDX4027	E909	*	39	256TTFNA4001	U649	*	51	284STFCA6003	GT1227	*	67	284TTFNA6030	E309	*	60
256TTDX4032	E761	*	39	256TTFNA4005	U650		51	284STFCA6005	GT1127	*	64	284TTFNA6076	E237	*	60
256TTDX4041	U100		122	256TTFNA4030	U653	*	51	284STFNA6001	E222	*	60	284TTFNA6526	E622	*	71
256TTDX4047	U101		122	256TTFNA4532	U872	*	68	284STFNA6501	E607	*	71	284TTFNA6527	E675	*	71
256TTDX4059	U223		129	256TTFNA6001	E221	*	60	284STFNA6502	E660		71	284TTFNA6576	E638	*	71
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256TTDX4075	E197		122	256TTFNA6501	E606	*	71	284STGN6503	E546		83	284TTFNA7240	Y385	*	169
256TTDX4076	E734	*	38	256TTFNA6503	E659	*	71	284STGN16531	U076A		82	284TTFNA14102	L414A	*	51
256TTDX4315	U439		41	256TTFNA6523	E484	*	71	284STGP4001	U066	*	81	284TTFNA16832	U873A	*	68
256TTDX4326	E198		122	256TTFNA6526	E621	*	71	284STGP4036	U076		83	284TTFFA4027	U725	*	57
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256TTDX7207	Y492		170	256TTFNA7250	Y384	*	169	284TDCA6032	GT0428	*	124	284TTGN6576	E504	*	83
256TTDX7253	Y471		170	256TTFNA14004	U815	*	57	284TDCA6033	GT0528	*	124	284TTGN16539	U029A		83
256TTDX7263	Y457		170	256TTFNA14086	C256A		54	284TDCA6076	GT0023	*	45	284TTGP1026	U957	*	77
256TTDX7264	Y458	*	170	256TTFNA14101	L413A	*	50	284TTDN14102	H188A		38	284TTGP4030	U029		81
256TTDX7378	M811		195	256TTFNA16574	U872A	*	68	284TTDP4011	U230		130	284TTTNA16577	S519		172
256TTDX7391	Y204	*	173	256TTFFPA8102	L413	*	51	284TTDP4012	U232		130	284TTTNA17101	S567	*	172
256TTDX7396	C156		40	256TTGN1026	U954	*	77	284TTDP4022	U231		130	284TTTNA18577	S569		172
256TTDX8938	M818		195	256TTGN4030	U028	*	81	284TTDP4023	U110		122	284TTTNA18601	S517		172
256TTDX14087	C156A		40	256TTGN6531	E506	*	83	284TTDP4025	U108		122	286THFNA8028	Y570	*	91
256TTFC4076	U642	*	51	256TTGN6576	E501		83	284TTDP4027	U502		131	286THFNA9026	W567	*	75
256TTFC6002	U649A	*	60	256TTGN14011	C308A		80	284TTDP4029	E910		39	286THFNA9076	W555		75
256TTFC6006	U650A	*	60	256TTGN14044	C328A	*	80	284TTDP4035	E762	*	39	286THFNA19033	W568		75
256TTFC6027	U652B	*	60	256TTGN16540	U028A	*	83	284TTDP4037	U107		122	286THFNA19077	W556		75
256TTFC6031	U653A	*	60	256TTTNA18577	S566		172	284TTDP4043	U105		122	286THFNA19101	W550		75
256TTFC6077	U642A	*	60	256TTTNA18578	S516	*	172	284TTDP4044	U227		130	286THFPA8038	Y512	*	91
256TTFC6081	E006	*	60	256TTTNA18601	S564		172	284TTDP4045	U229		130	286THFPA8086	Y582		91
256TTFCA6001	GT1024	*	64	284THEN8032	Y985		92	284TTDP4047	U503		131	286HTNA7026	Y393	*	89
256TTFCA6003	GT1224	*	67	284THFNA9026	W560	*	75	284TTDP4069	U106		122	286HTNA7036	Y394	*	89
256TTFCA6005	GT1124	*	64	284THFNA9076	W548	*	75	284TTDP4076	E735	*	38	286TSHFNA9001	W565	*	75
256TTFCA6026	GT1025	*	64	284THFNA16585	W549		75	284TTDP7072	M126	*	130	286TSTDC6001	U774	*	43
256TTFCA6028	GT1225	*	67	284THFNA19033	W561		75	284TTDP7202	Y493		170	286TSTDC6003	U293	*	43
256TTFCA6030	GT1125	*	64	284THFNA19102	W543		75	284TTDP7205	Y472		170	286TSTDC6001	GT0033	*	45
256TTFCA6076	GT1020	*	63	284THFPA8028	Y569	*	91	284TTDP7221	Y459	*	170	286TSTDC16004	U443A	*	41
256TTFCA6078	GT1220	*	67	284THFPA8038	Y511	*	91	284TTDP7302	M127	*	130	286TSTDN16005	U441A	*	41

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286TSTDN16034	U440A		41	286TTFCA6080	GT1126	*	64	324TTDCA6008	GT0536	*	124	326THFS9026	W580	*	76
286TSTDN16036	E794A		43	286TTFNA6026	E208	*	60	324TTDCA6026	GT0034	*	45	326THFS9076	W569	*	75
286TSTDP4017	U902		39	286TTFNA6030	E310	*	60	324TTDCA6032	GT0434	*	124	326THFS19033	W581	*	76
286TSTDP4022	U508	*	131	286TTFNA6076	E238	*	60	324TTDCA6033	GT0534	*	124	326THFS19078	W643	*	75
286TSTDP4023	U509		131	286TTFNA6526	E623	*	71	324TTDCA6076	GT0029	*	45	326TSHFS9001	W577	*	76
286TSTFC6002	E964A	*	60	286TTFNA6527	E676	*	71	324TTDP4002	U240		130	326TSHFS9005	W578	*	76
286TSTFC6006	E819A	*	60	286TTFNA6570	E491	*	71	324TTDP4004	U118		122	326TSHFS9036	W579	*	76
286TSTFC6036	E818A	*	60	286TTFNA6576	E639	*	71	324TTDP4011	U241		130	326TSTDC6001	U778	*	43
286TSTFCA6001	GT1030	*	64	286TTFNA6580	E695		71	324TTDP4018	U119		122	326TSTDC6001	GT0039	*	45
286TSTFCA6003	GT1230	*	67	286TTFNA6876	E486		71	324TTDP4028	E764		39	326TSTDP4003	U910	*	39
286TSTFCA6005	GT1130	*	64	286TTFNA7260	Y386	*	169	324TTDP4030	E787		39	326TSTDP4022	U517	*	131
286TSTFNA6001	E223	*	60	286TTFNA14106	L415A	*	51	324TTDP4033	U239		130	326TSTDP4024	U516	*	131
286TSTFNA6501	E608	*	71	286TTFNA16572	U874A	*	68	324TTDP4038	U510		131	326TSTDP4036	E791	*	39
286TSTFNA6804	E490	*	71	286TTFPA4030	E817	*	51	324TTDP4076	E737	*	39	326TSTDP8219	Y637	*	131
286TSTFPA4005	E819		51	286TTFPA4544	U874	*	68	324TTDP4345	U116		122	326TSTDP16005	U447A	*	41
286TSTFPA4036	E818	*	51	286TTFPA7919	M900		196	324TTDP4348	U238		130	326TSTDP16032	E789A	*	43
286TSTFPA14002	U750	*	57	286TTFPA8102	L415	*	51	324TTDP4349	U117		122	326TSTDR16034	E791A	*	43
286TSTGN6501	E563		83	286TTFPA17044	M901		196	324TTDP7073	M130	*	130	326TSTDR16035	U446A	*	41
286TSTGN16531	U077A		83	286TTFPA17079	M894		196	324TTDP7320	M358	*	122	326TSTFC6002	E976A	*	61
286TTDC6026	U773	*	43	286TTGN4076	U047	*	81	324TTDP7649	H636	*	39	326TSTFC6006	E013	*	60
286TTDC6029	E763A	*	43	286TTGN6537	E564	*	83	324TTDP7687	Y217	*	173	326TSTFC6036	E801A	*	61
286TTDC6076	U257	*	43	286TTGN16533	U030A		83	324TTDP14049	U511		131	326TSTFCA6001	GT1036	*	64
286TTDCA6007	GT0433	*	124	286TTGN16577	E507		83	324TTDR7408	M820		195	326TSTFCA6003	GT1236	*	67
286TTDCA6008	GT0533	*	124	286TTGP4030	U030		81	324TTDR8390	M823		195	326TSTFCA6005	GT1136	*	64
286TTDCA6026	GT0031	*	45	286TTTNA18577	S522		172	324TTDR8940	M830		195	326TSTFPA14003	U834	*	57
286TTDCA6032	GT0431	*	124	324THFPA8028	Y571	*	91	324TTDR17003	M833		195	326TSTFS6001	E225	*	61
286TTDCA6033	GT0531	*	124	324THFPA8038	Y513	*	91	324TTFC6027	E984B	*	61	326TSTFS6005	E320	*	61
286TTDCA6076	GT0026	*	45	324THFPA8086	Y583		91	324TTFC6031	E815A	*	60	326TSTFS6501	E610	*	71
286TTDN14101	H189A		38	324THFS9026	W573	*	75	324TTFC6077	E820A	*	60	326TSTFS6502	E663	*	71
286TTDP4015	U114		122	324THFS9076	W562		75	324TTFC6081	E009	*	60	326TSTFS6536	E453	*	71
286TTDP4020	U236		130	324THFS9080	W563		75	324TTFCA6026	GT1034	*	64	326TSTGP4001	U069	*	81
286TTDP4021	U115		122	324THFS19033	W574		75	324TTFCA6028	GT1234	*	67	326TSTGS6501	E569	*	83
286TTDP4024	U237		130	324TSHFS9001	W571	*	75	324TTFCA6030	GT1134	*	64	326TSTGS16532	U079A	*	83
286TTDP4027	E911	*	39	324TSTDC6001	U776	*	43	324TTFCA6076	GT1029	*	64	326TTDC4026	E727	*	39
286TTDP4034	E763		39	324TSTDC6003	U294	*	43	324TTFCA6080	GT1129	*	64	326TTDC6026	U777	*	43
286TTDP4037	U112		122	324TSTDC6001	GT0036	*	45	324TTFPA4028	U727	*	57	326TTDC6029	E765A	*	43
286TTDP4041	U506		131	324TSTDP4006	U909		39	324TTFPA4030	E815	*	51	326TTDC6076	U799	*	43
286TTDP4047	U113		122	324TSTDP4007	U513		131	324TTFPA4540	U875	*	68	326TTDCA6026	GT0037	*	45
286TTDP4048	U233		130	324TSTDP4010	U512	*	131	324TTFPA7017	M904		196	326TTDCA6032	GT0437	*	124
286TTDP4049	U235		130	324TSTDP4016	U445	*	41	324TTFPA7668	M905		196	326TTDCA6033	GT0537	*	124
286TTDP4067	U111		122	324TSTDP4032	E789	*	39	324TTFPA17078	M898		196	326TTDCA6076	GT0032	*	45
286TTDP4074	U234		130	324TSTDP16002	U445A	*	41	324TTFS6026	E209	*	61	326TTDP4032	U243		130
286TTDP7018	M129	*	130	324TSTDP16032	U444A		41	324TTFS6030	E311	*	61	326TTDP4046	E790	*	39
286TTDP7054	M128	*	130	324TSTFC6002	E971A	*	61	324TTFS6076	E239	*	60	326TTDP4048	E765	*	39
286TTDP7101	H189		38	324TSTFC6006	E011	*	60	324TTFS6526	E624	*	71	326TTDP4076	E738	*	39
286TTDP7217	Y460		170	324TSTFC6036	E816A	*	61	324TTFS6527	E677	*	71	326TTDP4326	U121		122
286TTDP7251	Y473		170	324TSTFCA6001	GT1033	*	64	324TTFS6576	E640	*	71	326TTDP4329	U120		122
286TTDP7641	H632	*	39	324TSTFCA6003	GT1233	*	67	324TTFS6577	E696		71	326TTDP4340	U242		130
286TTDP7689	Y216	*	173	324TSTFCA6005	GT1133	*	64	324TTFS7290	Y387	*	169	326TTDP4344	U515	*	131
286TTDP14042	U507		131	324TSTFPA4036	E816	*	51	324TTFS14101	L416A	*	51	326TTDP4345	U514		131
286TTDR7395	M819		195	324TSTFPA14003	U830	*	57	324TTFS16837	U875A	*	68	326TTDP7330	M131	*	130
286TTDR8648	M826		195	324TSTFS6001	E224	*	61	324TTGP4030	U031		81	326TTDP7697	Y218	*	173
286TTFC4076	E968	*	51	324TSTFS6005	E319		61	324TTGP4076	U048	*	81	326TTDR7112	M824		195
286TTFC6027	E983B	*	60	324TSTFS6501	E609	*	71	324TTGS6529	E567	*	83	326TTDR7302	M837		195
286TTFC6031	E817A	*	61	324TSTFS6505	E662		71	324TTGS16535	U031A		83	326TTDR8954	M834		195
286TTFC6077	E968A	*	60	324TSTGS6501	E566		83	324TTGS16577	U048A		83	326TTDR14105	H191A		39
286TTFC6081	E008	*	60	324TSTGS16531	U078A		83	324TTTS18577	S525		172	326TTFC4026	E962	*	51
286TTFCA6026	GT1031	*	64	324TTDC6026	U775	*	43	324TTTS18601	S523		172	326TTFC6027	E962B	*	61
286TTFCA6028	GT1231	*	67	324TTDC6029	E764A	*	43	326THFPA8038	Y514	*	91	326TTFC6031	U659A	*	61
286TTFCA6030	GT1131	*	64	324TTDC6076	U798	*	43	326THFPA8086	Y584		91	326TTFC6077	E966A	*	61

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326TTFCA6026	GT1037	*	64	364TTDCA6086	U1927	*	43	365STDS16041	E782C	*	44	404TSTDS4001	E754	*	39
326TTFCA6028	GT1237	*	67	364TTDCB6060	GT0040	*	45	365STDS16042	E768C	*	43	404TSTDS4017	U530	*	132
326TTFCA6030	GT1137	*	64	364TTDCB6086	GT0035	*	45	365STFC6003	E991A	*	61	404TSTDS4308	U453	*	41
326TTFCA6076	GT1032	*	64	364TTDR5039	M838		195	365STFC6006	E016	*	60	404TSTDS4332	U528	*	132
326TTFCA6080	GT1132	*	64	364TTDS4040	E766		39	365STFC6026	E804A	*	61	404TSTDS4333	U529	*	132
326TTFPA4030	U659	*	51	364TTDS4086	E746	*	39	365STFCA6001	GT1042	*	64	404TSTDS6001	U250	*	44
326TTFPA4550	U876	*	68	364TTDS4328	U520		131	365STFCA6002	GT1142	*	64	404TSTDS6327	U452A		41
326TTFPA7397	M902		196	364TTDS7009	M841		195	365STFCA6003	GT1242	*	67	404TSTDS7623	Y651		132
326TTFPA7406	M899		196	364TTDS7117	M828		195	365STFS6001	E227	*	61	404TSTDS14008	U531		132
326TTFPA8107	L417	*	51	364TTDS7376	M831		195	365STFS6002	E322		61	404TSTDS16006	U453A	*	41
326TTFPA17037	M909		196	364TTFC6037	E985B	*	61	365STFS6501	E612	*	72	404TSTDS16036	E780A	*	44
326TTFS6026	E210	*	61	364TTFC6041	U660A	*	61	365STFS6502	E665	*	72	404TDC6060	GT0046	*	46
326TTFS6030	E312	*	61	364TTFC6081	E012	*	60	365STFS6526	E455	*	72	404TDC6086	GT0041	*	45
326TTFS6076	E240	*	61	364TTFC6087	E988A	*	61	365STGS4001	U071	*	81	404TTDS4042	U903		39
326TTFS6526	E625	*	71	364TTFCA4036	E1985	*	51	365STGS16503	E575		83	404TTDS4086	E748	*	39
326TTFS6527	E678	*	71	364TTFCA6036	GT1040	*	64	365STGS16532	U081A		83	404TTDS6060	E922	*	44
326TTFS6576	E641	*	71	364TTFCA6038	GT1240	*	67	365TTDCA4036	E1740	*	39	404TTDS6086	U270	*	43
326TTFS6580	E400		71	364TTFCA6040	GT1140	*	64	365TTDCA6060	U1783	*	44	404TTDS7071	M846		195
326TTFS9210	Y388	*	169	364TTFCA6080	GT1135	*	64	365TTDCA6086	U1928	*	43	404TTDS7376	M839		195
326TTFS14101	L417A	*	51	364TTFCA6086	GT1035	*	64	365TTDCB6060	GT0043	*	46	404TTDS7387	Y210	*	173
326TTFS16574	U876A	*	68	364TTFS4040	U660	*	51	365TTDCB6086	GT0038	*	45	404TTDS17102	M836		195
326TTGP4030	U032		81	364TTFS4086	E988	*	51	365TTDS4041	E767		39	404TTFC6080	GT1141	*	64
326TTGS6532	E570	*	83	364TTFS6036	E211	*	61	365TTDS7019	M845		195	404TTFC6086	GT1041	*	64
326TTGS6578	E565		83	364TTFS6040	E313	*	61	365TTDS7071	M842		195	404TTFS4086	E803	*	51
326TTGS16539	U032A		83	364TTFS6536	E626	*	71	365TTDS7114	M832		195	404TTFS6086	E243	*	61
326TTTS18577	S528		172	364TTFS6537	E679	*	71	365TTDS7376	M835		195	404TTFS6586	E644	*	72
364THFS8036	Y573	*	91	364TTFS7922	M912		196	365TTDS7383	Y209		173	404TTFS6592	E403		72
364THFS8046	Y515	*	91	364TTFS7945	M913		196	365TTFC6037	E957A	*	61	404TTFS7685	M914		196
364THFS8391	Y585		91	364TTFS7985	M906		196	365TTFC6041	E805A	*	61	404TTFS8102	L426	*	51
364THFS9036	W587	*	76	364TTFS8101	L420	*	51	365TTFC6081	E014	*	60	404TTGS4087	U089	*	81
364THFS19033	W588		76	364TTFS9234	Y389	*	169	365TTFC6087	E993A	*	61	404TTGS6588	E574		83
364THFS19077	W639		75	364TTFS16083	E241A	*	61	365TTFCA6036	GT1043	*	64	405THFS8036	Y575	*	92
364THFS19087	W575A		75	364TTFS16558	U877A	*	68	365TTFCA6038	GT1243	*	67	405THFS8046	Y517	*	92
364TSHFS9001	W584	*	76	364TTFS16584	E642A	*	71	365TTFCA6040	GT1143	*	64	405THFS8378	Y588	*	91
364TSHFS9026	W586		76	364TTFS16585	E401A		71	365TTFCA6080	GT1138	*	64	405THFS9036	W600	*	76
364STSDCA4026	E768	*	39	364TTGS1036	U969	*	77	365TTFCA6086	GT1038	*	64	405THFS9040	W601	*	76
364STSDCA4026	E1768	*	39	364TTGS4040	U033		81	365TTFS4036	E957	*	52	405THFS9086	W596		76
364STSDCA6001	U1782	*	44	364TTGS16536	E573A	*	83	365TTFS4040	E805	*	52	405THFS19101	W590		76
364STSDCB6001	GT0042	*	46	364TTGS16537	U033A		83	365TTFS4560	U878	*	68	405TSHFS9001	W598	*	76
364STSDS4001	E714	*	39	364TTGS16577	E568A	*	83	365TTFS6036	E212	*	61	405SHFS9026	W599		76
364STSDS4024	U523		131	365THFS8036	Y574	*	91	365TTFS6040	E315	*	61	405STDC6007	GT0051	*	46
364STSDS4025	U522	*	132	365THFS8046	Y516	*	91	365TTFS6536	E627	*	72	405STDS4001	E755	*	39
364STSDS4332	U518	*	131	365THFS8380	Y586		91	365TTFS6537	E680		72	405STDS4006	U534	*	132
364STSDS4337	U519		131	365THFS9036	W594	*	76	365TTFS7393	M910		196	405STDS4332	U532	*	132
364STSDS4355	U448		41	365THFS9044	W595	*	76	365TTFS7930	M917		196	405STDS4333	U533		132
364STFC6002	E960A	*	61	365THFS19077	W640		76	365TTFS8115	L425	*	51	405STDS6007	U251	*	44
364STFC6006	E015	*	60	365THFS19086	W582A	*	76	365TTFS9230	Y390	*	169	405STDS16005	U455A		41
364STFC6026	E802A	*	61	365THFS19101	W576		75	365TTFS16083	E242A	*	61	405STDS16038	E781A	*	44
364STFCA6001	GT1039	*	64	365SHFS9001	W591	*	76	365TTFS16591	E643A	*	71	405STFC6001	GT1045	*	65
364STFCA6003	GT1239	*	67	365SHFS19002	W592		76	365TTFS16592	E402A		71	405STFC6003	GT1245	*	67
364STFCA6005	GT1139	*	64	365SHFS19034	W593A		76	365TTFS16827	U878A	*	68	405STFC6005	GT1145	*	65
364STFS6001	E226	*	61	365STSDCA4026	E1782	*	39	365TTFS17102	M907		196	405STFS6001	E228	*	61
364STFS6005	E321		61	365STSDCA6001	U1784	*	44	365TTGS1036	U972	*	77	405STFS6005	E323		61
364STFS6501	E611	*	71	365STSDCB6001	GT0045	*	46	365TTGS4040	U034		81	405STFS6501	E613	*	72
364STFS6505	E664		71	365STSDS4025	U526	*	132	365TTGS16540	E576A	*	83	405STFS6502	E493		72
364STFS6526	E454		71	365STSDS4303	U527	*	132	365TTGS16542	U034A		83	405STFS6526	E456	*	72
364STGS6506	E572		83	365STSDS4332	U524	*	132	365TTGS16577	E571		83	405STFS16033	E808A	*	61
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364TTDC4036	E739	*	39	365STSDS6074	U450A		41	404THFS9086	W589		76	405STGS16531	U082A		84
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405TTDS7697	Y211	*	173	444TTDS4069	U911		39	445STFNF6526	E458	*	72	447TSTDN7026	H812	*	39,132
405TTDS16060	U904A		44	444TTDS6060	E924	*	44	445STFNF6528	E459	*	72	447TSTDN7027	H813	*	39,132
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449TTFS6587	E688		72	KIT 107-637	A107	*	215	KIT 250TCD2-WD	A162		210	KIT 320TCDP	A613	*	210
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# Marathon Electric Manufacturing Corporation

## MPN411 Terms and Conditions of Sale

**REGAL BELOIT CORPORATION ELECTRICAL GROUP TERMS AND CONDITIONS OF SALE ALL QUOTATIONS ARE MADE AND ALL ORDERS ARE ACCEPTED BY REGAL BELOIT CORPORATION ELECTRICAL GROUP SUBJECT ONLY TO THESE TERMS AND CONDITIONS. THROUGHOUT THIS DOCUMENT, REGAL BELOIT CORPORATION ELECTRICAL GROUP SHALL BE REFERRED TO AS SELLER.**

### 1. MODIFICATIONS OF SALES TERMS:

Any Terms and Conditions contained in any purchase order or other form of communication from Seller's customers which are additional to or different from these Terms and Conditions shall be deemed rejected by Seller unless expressly accepted in writing by Seller. In general, no modification, amendment, waiver or other change of any of these Terms and Conditions and those contained on the reverse side hereof and/or in attachments hereto ("Terms and Conditions"), or of any of Seller's rights or remedies thereunder, shall be binding on Seller unless expressly accepted in writing by Seller's authorized officers. No course of dealing, usage of trade or course of performance shall be relevant to explain or supplement any of these Terms and Conditions. In case of conflict between the Terms and Conditions printed on this page and those contained on the face side or in attachments hereto, the latter shall control. If any document issued by any party hereto is sent by facsimile or another form of electronic document transmission, the parties hereto agree that (a) the copy of any such document printed on the facsimile machine or printer of the recipient thereof is a counterpart original copy thereof and is a "writing", (b) delivery of any such document to the recipient thereof by facsimile or such other form of electronic document transmission is authorized by the recipient thereof and is legally sufficient for all purposes as if delivered by United States mail, (c) the typewritten name of an authorized agent of the party sending such document on any such document is sufficient as a signature thereon on behalf of such party and the intent of such signature is to authenticate the writing, and (d) an electronically stored and reproduced copy of any such document shall be deemed to be legally sufficient evidence of the terms of such document for all purposes.

### 2. ACCEPTANCE OF ORDERS:

Acceptance by Seller of Buyer's purchase order(s) is expressly conditioned upon Buyer's assent to these Terms and Conditions. Buyer will be deemed to have assented to such Terms and Conditions unless Seller receives written notice of any objections within fifteen (15) days after Buyer's receipt of this form and in all events prior to any delivery or other performance by Seller of Buyer's order.

### 3. QUOTATIONS:

Quotations by Seller shall be deemed to be offers by Seller to sell the Goods described therein subject to these Terms and Conditions, and acceptance of such offers is expressly limited to acceptance by Buyer of all of these Terms and Conditions within thirty (30) days from the date of the quotation. Purchase orders submitted by Buyer for the Goods quoted by Seller shall be subject to and will be deemed to constitute acceptance of these Terms and Conditions. All purchase orders will be subject to approval by Seller.

### 4. PRICES; PRICE CHANGES:

All prices are net F.O.B. shipping point and are subject to change without notice. In the event of a change in Seller's prices, the price for Goods unshipped will be the price in effect on the date of shipment.

If Seller's quoted price was based upon delivery to and acceptance by Buyer of a specified quantity of Goods, such price shall be subject to adjustment if Buyer does not accept the quantity at the times specified in Seller's quotation, and Buyer will be invoiced at Seller's standard price without quantity discounts, if any, for the quantity of Goods actually accepted by Buyer.

### 5. TAXES:

In addition to any prices, Buyer shall pay the amount of any present or future manufacturer's tax, retailer's occupation tax, use tax, sales tax, excise tax, duty, custom, inspection or testing fee, or any other tax, fee or charge of any nature whatsoever imposed by any governmental authority, on or measured by the transaction between Seller and Buyer. In the event Seller is required to pay any such tax, fee or charge, Buyer shall reimburse Seller therefor; or, in lieu of such payment, Buyer shall provide Seller at the time the order is submitted with an exemption certificate or other document acceptable to the authority imposing such tax, fee or charge.

### 6. TERMS OF PAYMENT:

All orders are subject to the approval of Seller. Terms of payment are cash in full no later than thirty (30) days from date of shipment, without discount. If, during the period of performance of an order, the financial condition of Buyer is determined by Seller not to justify the terms of payment specified, Seller may demand full or partial payment in advance before proceeding with the work, or satisfactory security or guarantees that invoices will be promptly paid when due, or, at its option without prejudice to other lawful remedies, may defer delivery or cancel this contract. If delivery is deferred, the Goods may be stored as provided in Section 9 hereof and Seller may submit a new estimate of cost for completion based on prevailing conditions. If Buyer defaults in any payment when due, or in the event any voluntary or involuntary bankruptcy or insolvency proceedings involving Buyer are initiated by or against Buyer, then the whole contract price shall immediately become due and payable upon demand, or Seller, at its option without prejudice to its other lawful remedies, may defer delivery or cancel this contract. Prorata payments shall become due as shipments are made. If shipments are delayed by the Buyer for any cause, payments shall become due from the date on which Seller is prepared to make shipment and storage shall be the Buyer's risk and expense as provided in Section 9 hereof. If manufacture is delayed by the Buyer for any cause, a partial payment based upon the proportion of the order completed shall become due from the date on which Seller is notified of the delay.

### 7. DELIVERY; RISK OF LOSS:

All sales are F.O.B. Seller's plant or other point of shipment designated by Seller. Shipping dates are estimates only which are not guaranteed and are based upon prompt receipt from Buyer

of all necessary shipping and other information. Seller reserves the right to make delivery in installments, all installments to be separately invoiced and paid for by Buyer when due per invoice, without regard to subsequent deliveries. Delivery of Goods to a commercial carrier at Seller's plant or other loading point shall constitute delivery to Buyer, and any risk of loss and further cost and responsibility thereafter for claims, delivery, loss or damage, including, if applicable, placement and storage, shall be borne by Buyer. When Goods are delivered by Seller's truck, unloading at Buyer's dock shall constitute delivery to Buyer. Claims for shortages or other errors in delivery must be made in writing to Seller within ten (10) days after receipt of shipment and failure to give such notice shall constitute unqualified acceptance and a waiver of all such claims by Buyer. Claims for loss or damage to Goods in transit by common carrier must be made to the carrier and not to Seller.

Freight and handling charges by Seller may not reflect actual freight charges prepaid to the carrier by Seller due to incentive discounts earned by Seller based upon Seller's aggregate volume of freight tendered to a carrier or when a carrier must be used which charges a rate which is different than the rate upon which Seller's freight and handling charges were based. When shipments are delivered in Seller's private trucks Buyer will be charged an amount approximating the prevailing common carrier rate.

### 8. EXCUSABLE DELAYS; FORCE MAJEURE:

Seller shall not be liable for any ordinary, incidental, or consequential loss or damage as a result of Seller's delay in or failure of delivery or installation due to (i) any cause beyond Seller's reasonable control, (ii) an act of God, act of the Buyer, embargo or other government act, authority, regulation or request, fire, theft, accident, strike, slowdown or other labor disturbance, war, riot, delay in transportation, or (iii) inability to obtain necessary labor, materials, components, or facilities. Should any of the aforementioned events of force majeure occur, Seller, at its option, may cancel Buyer's order with respect to any undelivered Goods or extend the delivery date for a period equal to the time lost because of delay. Notice of such election shall be given promptly to Buyer. In the event Seller elects to so cancel the order, Seller shall be released of and from all liability for failure to deliver the Goods, including, but not limited to, any and all claims on behalf of Buyer for lost profits, or any other claim of any nature which Buyer might have.

If shipping or progress of the work is delayed or interrupted by Buyer, directly or indirectly, Buyer shall pay Seller for all additional charges resulting therefrom.

### 9. STORAGE:

If the Goods are not shipped within thirty (30) days after notification has been made to Buyer that it is ready for shipping, for any reason beyond Seller's control, including Buyer's failure to give shipping instructions, Seller may store the Goods at Buyer's risk and expense in a warehouse or on Seller's premises, and Buyer shall pay all handling, transportation and storage costs at the prevailing commercial rates promptly following Seller's submission of invoices for such costs.

### 10. WARRANTIES TO DISTRIBUTORS AND INDUSTRIAL OR COMMERCIAL CUSTOMERS:

This warranty is extended only to Seller's distributors and industrial or commercial customers and does not apply to consumer purchasers.

#### Warranty Period - Motors

The Seller warrants motors manufactured by or for it to be free from defects in materials and workmanship and to conform to its written specifications for a period of twelve (12) months from date of first use or eighteen (18) months from date of manufacture, whichever period shall expire first.

#### Warranty Period - Generators

(a) The Seller warrants standby generators manufactured by or for it to be free from defects in materials and workmanship and to conform to its written specifications for a period of twenty-four (24) months from date of startup, thirty (30) months from date of shipment, or one-thousand (1,000) hours in use, whichever period shall expire first; (b) Seller warrants continuous duty generators manufactured by or for it to be free from defects in materials and workmanship and to conform to its written specifications for a period of twelve (12) months from date of startup or eighteen (18) months from date of shipment, whichever period shall expire first. Certain Electrical Group Goods are warranted for different periods of time under specific conditions. Buyer must consult the current product catalog or internet site to confirm this warranty period.

**Warranty Remedies - If**, prior to expiration of the foregoing applicable warranty period, any of such Goods shall be proved to Seller's satisfaction to be defective or nonconforming, Seller will repair or replace such defective Goods or components thereof, F.O.B. Seller's plant or other destination designated by Seller, or will refund or provide Buyer with a credit in the amount of the purchase price paid therefor by Buyer, at Seller's sole option. Buyer's exclusive remedy and Seller's sole obligation under this warranty shall be limited to such repair or replacement, F.O.B. Seller's plant or other destination designated by Seller, or refund or credit by Seller, and shall be conditioned upon Seller's receiving written notice of any defect within a reasonable period of time (but in no event more than sixty (60) days) after it was discovered or by reasonable care should have been discovered. In no event shall Seller's liability for such defective or nonconforming Goods exceed the purchase price paid by Buyer therefor.

**Exclusions - This warranty does not:** (i) cover shipping expenses to and from Seller's factory or other destination designated by Seller for repair or replacement of defective Goods or any tax, duty, custom, inspection or testing fee, or any other charge of any nature related thereto, nor does it cover the costs of disassembling or removing defective Goods or reassembling, reinstalling, or testing repaired or replaced Goods or finishing the reinstallation thereof; (ii) apply and shall be void with respect to Goods operated in excess of rated capacity or otherwise not in accordance with installation, maintenance, or operating instructions or requirements, to Goods repaired or altered by others than Seller or Seller's authorized service agencies, or to Goods which were subjected to abuse, negligence, misuse, misapplication, accident, damages by circumstances beyond Seller's control, to improper installation (if by others than Seller),

# Marathon Electric Manufacturing Corporation

## MPN411 Terms and Conditions of Sale

operation, maintenance or storage, or to other than normal use or service; and (iii) apply to equipment or components not manufactured by or for Seller. With respect to Goods or components not manufactured by Seller, Seller's warranty obligations shall in all respects conform and be limited to the warranty actually extended to Seller by its suppliers, but in no event shall Seller's obligations be greater than those provided under Seller's warranty set forth in this Section 10. **THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES (EXCEPT TITLE), INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. NO EMPLOYEE, REPRESENTATIVE, OR AGENT OF SELLER OTHER THAN AN OFFICER OF SELLER IS AUTHORIZED TO ALTER OR MODIFY ANY PROVISION OF THIS SECTION 10 OR TO MAKE ANY GUARANTEE, WARRANTY, OR REPRESENTATION, EXPRESS OR IMPLIED, ORALLY OR IN WRITING, WHICH IS CONTRARY TO THE FOREGOING.** Any description of the Goods, whether in writing or made orally by Seller or Seller's agents, specifications, samples, models, bulletins, drawings, diagrams, engineering sheets or similar materials used in connection with Buyer's order are for the sole purpose of identifying the Goods and shall not be construed as an express warranty. Any suggestions by Seller or Seller's agents regarding use, application or suitability of the Goods shall not be construed as an express warranty unless confirmed to be such in writing by Seller's authorized officer.

### 11. LIMITATIONS OF LIABILITY; CONSEQUENTIAL DAMAGES:

**Nuclear Use Disclaimer** - Goods sold by Seller are not intended for use in connection with any nuclear facility or activity. If so used, Seller disclaims all liability for any nuclear damage, injury or contamination, and Buyer shall indemnify and hold Seller, its officers, agents, employees, successors, assigns and customers harmless from and against any and all losses, damages or expenses of whatever form or nature (including attorneys' fees and other costs of defending any action) which they or any of them may sustain or incur, whether as a result of breach of contract, warranty, tort (including negligence) or otherwise, by reason of such use.

**Consequential Damage Disclaimer** - Seller's liability with respect to Goods proved to its satisfaction to be defective within the warranty period shall be limited to repair, replacement or refund as provided in Section 10 hereof, and in no event shall Seller's liability exceed the purchase price of the Goods involved. Seller shall not be subject to any obligations or liabilities, whether arising out of breach of contract, warranty, tort (including negligence) or other theories of law, with respect to Goods sold or services rendered by Seller, or any undertakings, acts or omissions relating thereto. Without limiting the generality of the foregoing, Seller specifically disclaims any liability for property or personal injury damages, penalties, special or punitive damages, damages for lost profits or revenues, loss of use of Goods or any associated Goods, cost of capital, cost of substitute products, facilities or services, downtime, shutdown, or slowdown costs, or for any other types of economic loss, and for claims of Buyer's customers for any such damages.

**SELLER SHALL NOT BE LIABLE FOR AND DISCLAIMS ALL CONSEQUENTIAL, INCIDENTAL AND CONTINGENT DAMAGES WHATSOEVER. EVEN IF THE REPAIR OR REPLACEMENT REMEDY SHALL BE DEEMED TO HAVE FAILED OF ITS ESSENTIAL PURPOSE UNDER SECTION 2-719 OF THE UNIFORM COMMERCIAL CODE, SELLER SHALL HAVE NO LIABILITY TO BUYER FOR CONSEQUENTIAL DAMAGES, SUCH AS LOST PROFITS, LOST REVENUE, DAMAGE TO OTHER GOODS OR LIABILITY OR INJURY TO A THIRD PARTY.**

### 12. INDEMNIFICATION BY BUYER:

Buyer shall indemnify, hold harmless, and defend Seller and Seller's employees and agents from and against any and all damages, liability, claims, losses, and expenses (including reasonable attorneys' fees, court costs, and out-of-pocket expenses) arising out of or resulting in any way from claims by customers of Buyer or third parties against Seller alleging a breach of contract or warranty by Seller to the extent that such damages, liability, claims, losses, and expenses which may be payable by Seller to Buyer pursuant to and as limited by Seller's warranty and damage obligations as contained in Sections 10 and 11 hereof so as to effectively limit Seller's obligations to customers of Buyer or third parties to those set forth in Sections 10 and 11 hereof.

### 13. PATENT INDEMNIFICATION:

Seller will, at its own expense, defend or settle any suits that may be instituted against Buyer for alleged infringement by the Goods of any United States patent, provided that: (a) such alleged infringements consist of the use of the Goods for any of the purposes for which such Goods were sold; (b) Buyer shall have made all payments for such Goods then due hereunder; (c) Buyer shall give Seller immediate notice in writing of any such suit and transmit to Seller immediately upon receipt of all processes and papers served upon Buyer; and (d) Buyer shall permit Seller through its counsel, either in the name of Buyer or in the name of Seller, to defend such suit(s) and give all needed information, assistance and authority to enable Seller to do so.

In case of a final award of damages in any such suit, Seller will pay such award but will not be responsible for any compromise or settlement made without its written consent. In case the Goods itself is in such suit held to infringe any valid patent issued in the United States and its use enjoined, or in the event of a settlement or compromise approved by Seller which shall preclude future use of the Goods sold to Buyer hereunder, Seller shall, at its own expense and at its sole option, either: (a) procure rights to continue using such Goods; (b) modify the Goods to render it noninfringing; (c) replace the Goods with non-infringing Goods; or (d) refund the purchase price paid by Buyer for the Goods after return of the Goods to Seller. Notwithstanding the foregoing, Seller shall not be held responsible for infringements of combination or process patents covering the use of Goods in combination with other Goods or materials not furnished by Seller.

The foregoing states the entire liability of Seller for patent infringement, and **IN NO EVENT SHALL SELLER BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES ATTRIBUTABLE TO AN INFRINGEMENT** nor for infringement based on the use of the

Goods for a purpose other than that for which sold by Seller. As to any Goods furnished by Seller to Buyer manufactured in accordance with designs proposed or furnished by Buyer or any claim of contributory infringement resulting from the use or resale by Buyer of Goods sold hereunder, Buyer shall indemnify Seller for any award made against Seller or settlement by Seller for any patent, trademark or copyright infringements including attorneys' fees and defense costs.

### 14. SECURITY AGREEMENT AND FINANCING STATEMENTS:

To secure payment of the purchase price and of all monies which may be due hereunder, and performance of all of Buyer's obligations hereunder, Buyer hereby grants to Seller a security interest in all Goods sold by Seller, and agrees to execute such other Security Agreements and Financing Statements as Seller may reasonably request.

### 15. INSURANCE:

Until payment in full of the purchase price, Buyer shall maintain insurance covering all Goods sold by Seller to Buyer in such amounts and against such risks as is customary by companies engaged in the same or similar business and similarly located, and shall, upon Seller's request, furnish evidence of such insurance satisfactory to Seller.

### 16. DRAWINGS; OTHER DESIGN DATA:

All specifications, drawings, designs, data, information, ideas, methods, tools, gages, dies, fixtures, patterns and/or inventions made, conceived, developed or acquired by Seller in connection with procuring and/or executing Buyer's order will vest in and inure to Seller's sole benefit notwithstanding any changes therefor which may have been or may be imposed by Seller.

Buyer shall not give, loan, exhibit, sell or transfer to any person not then employed by Buyer and authorized to receive such information, or to any organization or entity, any drawing, photograph or specification furnished by Seller or reproduction thereof which may enable such person, organization or entity to furnish similar Goods or parts therefor.

### 17. RETURN OF GOODS:

No Goods or part shall be returned to Seller without written authorization and shipping instructions first having been obtained from Seller.

### 18. ASSIGNMENT AND SUBCONTRACTING:

None of the Buyer's rights under any order shall be assigned by the Buyer to any other person, whether by operation of law or otherwise, without Seller's prior written approval. Seller may, without the necessity of obtaining Buyer's prior written consent, subcontract the production of all or any portion of the Goods.

### 19. CANCELLATION:

No order submitted to Seller may be cancelled by Buyer without the prior written consent of Seller, which consent will at all times be conditioned on Buyer's agreement to pay Seller's cancellation charge. For finished Goods which in Seller's judgement is readily resalable to others, the cancellation charge shall be 15% of the invoice price of the Goods. For all other cancellations, the cancellation charge shall amount to all cost and expenses incurred by Seller and arising out of or in connection with Buyer's order, net of recoverability, but in no event less than 10% of the invoice price of the Goods or more than the invoice price.

### 20. GENERAL:

**Governing law** - These Terms and Conditions, and the contract of sale between Seller and Buyer, shall be governed by and construed in accordance with the laws of the State of Wisconsin. Seller and Buyer hereby agree that any legal action deemed necessary by either party hereto shall be brought in the Circuit Court in and for Seller County, Wisconsin and hereby consent to the personal jurisdiction of such court in any such action over the parties hereto. The rights and obligations of Seller and Buyer shall not be governed by the provisions of the United Nations Convention on Contracts for the Internal Sale of Goods.

**Attorneys' Fees** - Buyer agrees to pay all of Seller's costs and expenses of collection and related litigation, including but not limited to attorneys' fees and costs.

**Severability** - The invalidity, in whole or in part, of any of the provisions of these Terms and Conditions, shall not affect the enforceability of any of the other provisions thereof.

**Applicability** - The Terms and Conditions as stated herein are applicable as of the date of this printing and until such time as changed by Seller.



# IMPORTANT INFORMATION

Please Read Carefully



This catalog is not intended to provide operational instructions. Appropriate Marathon Electric instructions provided with the motor and precautions attached to the motor should be read carefully prior to installation, operation and/or maintenance of the equipment. Injury to personnel or motor failure may be caused by improper installation, maintenance or operation.

The following and information is supplied to you for your protection and to provide you with many years of trouble free and safe operation of your Marathon Electric product:



- Disconnect power and lock out driven equipment before working on a motor.
- Always keep hands and clothing away from moving parts.
- The lifting support on the motor is not to be used to lift the entire machine. Only the motor attached directly to the support may be safely lifted by the support.
- Install and ground per local and national codes.
- Discharge all capacitors before servicing a single phase motor.
- Misapplication of a motor in a hazardous environment can cause fire or an explosion and result in serious injury. Only the end user, local authority having jurisdiction, and/or insurance underwriter are qualified to identify the appropriate class(es), group(s), division and temperature code. Marathon Electric personnel can not evaluate or recommend what motors may be suitable for use in hazardous environments. If a motor is nameplated for hazardous locations, do not operate the motor without all of the grease and drain plugs installed.
- Never attempt to measure the temperature rise of a motor by touch. Temperature rise must be measured by thermometer, resistance, imbedded detector or thermocouple.
- Motors with automatic reset thermal protectors will automatically restart when the protector temperature drops sufficiently. Do not use motors with automatic reset thermal protectors in applications where automatic restart will be hazardous to personnel or equipment.
- Motors with manual reset thermal protectors may start unexpectedly after the protector trips when the surrounding air is at +20°Fahrenheit or lower. If the manual reset protector trips, disconnect motor from its power supply. After the protector cools (five minutes or more), it can be reset and power may be applied to the motor.
- Connect all protective device leads, marked P1, P2, etc., per instructions supplied with the motor.
- Operation of a motor at other than its nameplate rating may result in fire, damage to equipment or serious injury to personnel.
- For safety, Buyer or User should provide protective guards over all shaft extensions and any moving apparatus mounted thereon. The User is responsible for checking all applicable safety codes in his area and providing suitable guards. Failure to do so may result in bodily injury and/or damage to equipment.



- Consult qualified personnel with questions and all electrical repairs must be performed by trained and qualified personnel only.
- For motors nameplated as "belted duty only", do not operate the motor without belts properly installed.
- Motors and/or driven equipment should not be operated faster than their rated speed.
- For inverter applications, follow the inverter manufacturer's installation guidelines.
- Make sure the motor is properly secured and aligned before operation.

## Resale of Goods

In the event of the resale of any of the goods, in whatever form, Resellers/Buyers will include the following language in a conspicuous place and in a conspicuous manner in a written agreement covering such sale:

The manufacturer makes no warranty or representations, express or implied, by operation of law or otherwise, as to the merchantability or fitness for a particular purpose of the goods sold hereunder. Buyer acknowledges that it alone has determined that the goods purchased hereunder will suitably meet the requirements of their intended use. In no event will the manufacturer be liable for consequential, incidental or other damages. Even if the repair or replacement remedy shall be deemed to have failed of its essential purpose under Section 2-719 of the Uniform Commercial Code, the manufacturer shall have no liability to Buyer for consequential damages.

Resellers/Buyers agree to also include this entire document including the warnings and cautions above in a conspicuous place and in a conspicuous manner in writing to instruct users on the safe usage of the product.

This information should be read together with all other printed information supplied by Marathon Electric.

For more information contact: **Marathon Electric Manufacturing Corporation**, Subsidiary of REGAL-BELOIT CORPORATION, 100 E. Randolph St., Wausau, WI 54401 Phone: 715-675-3311 or Fax: 715-675-8030.

WARNINGS & CONDITIONS



# FREQUENTLY ASKED QUESTIONS

## ENERGY INDEPENDENCE AND SECURITY ACT OF 2007 (“EISA”)

These materials are intended to provide general information (not legal or other advice) about important new legislation or developments. These materials are not intended to substitute for a thorough analysis of the subject covered or any subsequent developments relating to that subject.

**Q. Are medium voltage motors covered by EISA?**

A. No. EISA only covers motors that are operational at 60 Hz with voltages through 600 V.

**Q. Must 60/50 Hz rated motors meet EISA efficiencies?**

A. Yes, 60/50 Hz motors must comply with the applicable efficiency requirement at the 60 Hz rating. 50 Hz only motors are exempt.

**Q. What efficiencies are documented in NEMA tables 12-11, 12-12, 12-13 and 12-14?**

A. NEMA table 12-11 defines efficiencies associated with EPA. 12-12 contains efficiencies associated with NEMA Premium (former CEE efficiencies). 12-13 defines medium voltage (>600V). 12-14 defines NEMA Premium levels @ 50 Hz.

**Q. Must spread voltage (eg. 200-230/460V) or tri-voltage (eg. 230/460/796) rated motors meet EISA efficiencies at all rated voltages?**

A. Yes. The motor must meet the required efficiency at each rated voltage on the nameplate. Note that since the efficiency requirements of the stated voltages may vary (200V must meet “EPA”/Table 12-11, whereas 230 & 460 must meet “NEMA Premium”/Table 12-12), varying efficiency claims must be made on the same nameplate.

**Q. What about 208 volt?**

A. Our view on 208 volt, is that it must meet EPA efficiencies.

**Q. Are single phase motors covered by EISA?**

A. No, regardless of motor frame size or HP rating.

**Q. Are 48 and 56 frame motors covered by EISA?**

A. No. However there are discussions about the possible establishment of efficiency standards for fractional HP motors.

**Q. Are “inverter duty” motors covered by EISA?**

A. Yes, if the motor is operational at 60 Hz. If the motor can be used as a “general purpose” motor, it must meet EISA-mandated efficiency. Special V/Hz motors (eg. 45Hz/230V) are not covered, nor are special ventilation schemes such as blower cooled or TENV.

**Q. Are motors that are intermittent duty or 60 minute duty covered?**

A. Motors that are truly intermittent duty or time limited and will fail if operated continuously are not covered. Motors that are labeled for less than continuous duty but are capable of operating continuously are covered.

**Q. Are motors with brakes covered? What about gearmotors?**

A. Motors that have brakes installed on the motor are not covered. Motors that are purchased with a shaft extension or “brake provisions” are covered. Motors that are part of the gear assembly and share bearings or other components such that they cannot operate without the gear assembly are not covered. Motors that can be operated separately but are used with a gearbox are covered.

**Q. Are motors with encoders or encoder provisions covered?**

A. Yes, both motor with encoders and motors with encoder provisions are covered based upon their other features such as enclosure, voltage and frequency. The inclusion of an encoder or other accessories is not required for the motor to operate so they are not considered reasons for exemption.

**Q. Are multi-speed motors covered?**

A. No, multi-speed motors (ex: 25/12.5hp 1800/900rpm) are not covered. There are no efficiency levels established for multi-speed motors so they cannot be labeled as EPA or NEMA Premium regardless of the efficiency value.

**Q. Are eight (8) pole motors covered?**

A. Yes, eight-pole motors operating on 60Hz power supplies are covered. There are no NEMA Premium efficiency levels defined for eight-pole motors so they cannot be labeled as NEMA Premium even if the efficiency exceeds EPA (Table 12-11) levels.



## NEMA MG-1 Table 12-11 Full Load Efficiencies of EPart Efficient Electric Motors

HP	NOMINAL FULL LOAD EFFICIENCY							
	OPEN FRAME				ENCLOSED FRAME			
	2 POLE	4 POLE	6 POLE	8 POLE	2 POLE	4 POLE	6 POLE	8 POLE
<b>1</b>	N/A	82.5	80.0	74.0	75.5	82.5	80.0	74.0
<b>1 1/2</b>	82.5	84.0	84.0	75.5	82.5	84.0	85.5	77.0
<b>2</b>	84.0	84.0	85.5	85.5	84.0	84.0	86.5	82.5
<b>3</b>	84.0	86.5	86.5	86.5	85.5	87.5	87.5	84.0
<b>5</b>	85.5	87.5	87.5	87.5	87.5	87.5	87.5	85.5
<b>7 1/2</b>	87.5	88.5	88.5	88.5	88.5	89.5	89.5	85.5
<b>10</b>	88.5	89.5	90.2	89.5	89.5	89.5	89.5	88.5
<b>15</b>	89.5	91.0	90.2	89.5	90.2	91.0	90.2	88.5
<b>20</b>	90.2	91.0	91.0	90.2	90.2	91.0	90.2	89.5
<b>25</b>	91.0	91.7	91.7	90.2	91.0	92.4	91.7	89.5
<b>30</b>	91.0	92.4	92.4	91.0	91.0	92.4	91.7	91.0
<b>40</b>	91.7	93.0	93.0	91.0	91.7	93.0	93.0	91.0
<b>50</b>	92.4	93.0	93.0	91.7	92.4	93.0	93.0	91.7
<b>60</b>	93.0	93.6	93.6	92.4	93.0	93.6	93.6	91.7
<b>75</b>	93.0	94.1	93.6	93.6	93.0	94.1	93.6	93.0
<b>100</b>	93.0	94.1	94.1	93.6	93.6	94.5	94.1	93.0
<b>125</b>	93.6	94.5	94.1	93.6	94.5	94.5	94.1	93.6
<b>150</b>	93.6	95.0	94.5	93.6	94.5	95.0	95.0	93.6
<b>200</b>	94.5	95.0	94.5	93.6	95.0	95.0	95.0	94.1
<b>250</b>	94.5	95.4	95.4	94.5	95.4	95.0	95.0	94.5
<b>300</b>	95.0	95.4	95.4	N/A	95.4	95.4	95.0	N/A
<b>350</b>	95.0	95.4	95.4	N/A	95.4	95.4	95.0	N/A
<b>400</b>	95.4	95.4	N/A	N/A	95.4	95.4	N/A	N/A
<b>450</b>	95.8	95.8	N/A	N/A	95.4	95.4	N/A	N/A
<b>500</b>	95.8	95.8	N/A	N/A	95.4	95.8	N/A	N/A

NEMA TABLE 12-11

**NEMA MG-1 Table 12-12 Full Load Efficiencies for 60 Hz  
NEMA Premium® (CEE)  
Efficient Electric Motors Rated 600 Volts or less (Random Wound)**

HP	NOMINAL FULL LOAD EFFICIENCY							
	OPEN FRAME				ENCLOSED FRAME			
	2 POLE	4 POLE	6 POLE	8 POLE	2 POLE	4 POLE	6 POLE	8 POLE
<b>1</b>	77.0	85.5	82.5	N/A	77.0	85.5	82.5	N/A
<b>1 1/2</b>	84.0	86.5	86.5	N/A	84.0	86.5	87.5	N/A
<b>2</b>	85.5	86.5	87.5	N/A	85.5	86.5	88.5	N/A
<b>3</b>	85.5	89.5	88.5	N/A	86.5	89.5	89.5	N/A
<b>5</b>	86.5	89.5	89.5	N/A	88.5	89.5	89.5	N/A
<b>7 1/2</b>	88.5	91.0	90.2	N/A	89.5	91.7	91.0	N/A
<b>10</b>	89.5	91.7	91.7	N/A	90.2	91.7	91.0	N/A
<b>15</b>	90.2	93.0	91.7	N/A	91.0	92.4	91.7	N/A
<b>20</b>	91.0	93.0	92.4	N/A	91.0	93.0	91.7	N/A
<b>25</b>	91.7	93.6	93.0	N/A	91.7	93.6	93.0	N/A
<b>30</b>	91.7	94.1	93.6	N/A	91.7	93.6	93.0	N/A
<b>40</b>	92.4	94.1	94.1	N/A	92.4	94.1	94.1	N/A
<b>50</b>	93.0	94.5	94.1	N/A	93.0	94.5	94.1	N/A
<b>60</b>	93.6	95.0	94.5	N/A	93.6	95.0	94.5	N/A
<b>75</b>	93.6	95.0	94.5	N/A	93.6	95.4	94.5	N/A
<b>100</b>	93.6	95.4	95.0	N/A	94.1	95.4	95.0	N/A
<b>125</b>	94.1	95.4	95.0	N/A	95.0	95.4	95.0	N/A
<b>150</b>	94.1	95.8	95.4	N/A	95.0	95.8	95.8	N/A
<b>200</b>	95.0	95.8	95.4	N/A	95.4	96.2	95.8	N/A
<b>250</b>	95.0	95.8	95.4	N/A	95.8	96.2	95.8	N/A
<b>300</b>	95.4	95.8	95.4	N/A	95.8	96.2	95.8	N/A
<b>350</b>	95.4	95.8	95.4	N/A	95.8	96.2	95.8	N/A
<b>400</b>	95.8	95.8	95.8	N/A	95.8	96.2	95.8	N/A
<b>450</b>	95.8	96.2	96.2	N/A	95.8	96.2	95.8	N/A
<b>500</b>	95.8	96.2	96.2	N/A	95.8	96.2	95.8	N/A

NEMA TABLE 12-12

# Marathon Electric's "MAX" Family of AC Variable Speed Motors

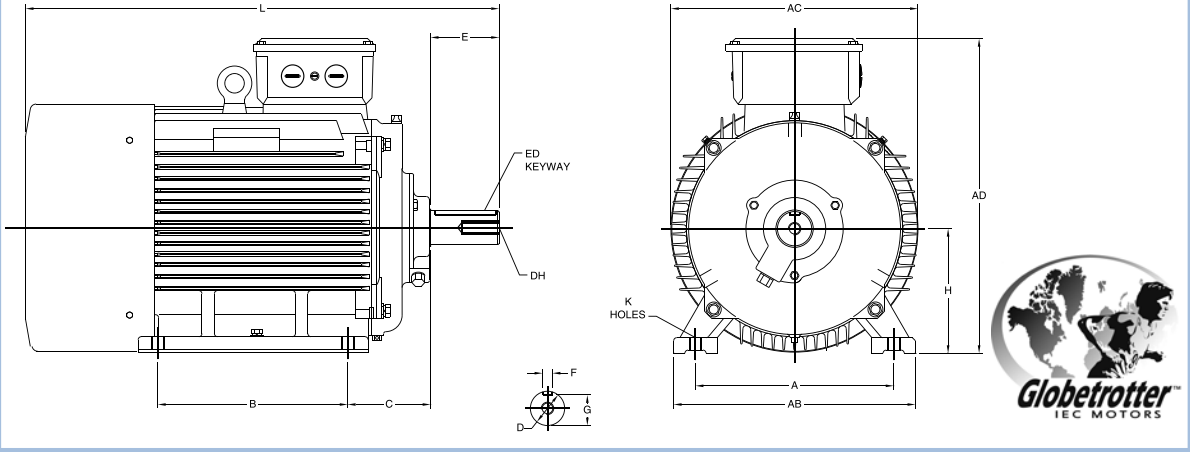
## Performance and Specification Comparisons



Characteristic	microMAX™	Black Max®	Blue Max®
<b>Electrical Characteristics</b>			
Horsepower range	1/8-10	1/4-30	1-1250
Base speed (# Poles)	4	4 and 6	2, 4, 6, 8, 10, 12
Standard Voltage	230, 230/460, 575	230/460, 575	230/460, 460, 575
Insulation Class	H	F	F (select models are H)
Insulation System	CR200 magnet wire / Class H	MAX GUARD® / Class F	MAX GUARD® / Class F or H
Service Factor (inverter power)	1.0	1.0	1.0
Phase/Base Frequency	3/60	3/60	3/60
Design Code (NEMA)	A	A	A ("B" as noted)
Duty Cycle	Continuous	Continuous	Continuous
Thermal protection	None	Class F thermostats	Class F thermostats
<b>Mechanical Characteristics</b>			
Frame size (mounting)	56-215T	56-286T	143T-6805
Normal NEMA frame size	Yes	Yes	Yes
Enclosure	TENV & TEFC	TENV & EPNV	TENV, TEFC, TEBC, EPNV, DPFV
Frame material	Rolled Steel	Rolled Steel, Aluminum, and Cast Iron	Cast Iron
End bracket material	Aluminum	Aluminum, Cast Iron	Cast Iron
Conduit box material	Steel	Steel	Cast Iron
Fan guard material	Polypropylene	None (all ratings TENV)	Cast Iron
Fan material	Polypropylene	None (all ratings TENV)	Polypropylene
Severe Duty option	No	No	Yes
Lead termination	Terminal block (3 lead TENV) Conduit box (all others)	Conduit box	Conduit box
Standard mounting (stock)	C-Face with Rigid Base and C-Face Round Body	C-Face with Rigid Base	C-Face with Rigid Base (1-100 HP) Rigid base (TEFC and over 100 HP)
Drive end shaft slinger	No	No	Yes
Paint	Black (powder-coat or enamel)	Black (powder-coat or enamel)	Blue (powder-coat or enamel)
Bearings	Ball (C3 fit)	Ball (C3 fit)	Ball (C3 fit); 445T-up Roller
Grease	Mobil POLYREX EM	Mobil POLYREX EM	Mobil POLYREX EM
Standard conduit box assembly position	F3	F1, reversible to F2 (except 56/140 frame steel)	F1, reversible to F2 (F3 available on build-up)
<b>Performance Characteristics</b>			
Constant Torque speed range	20:1 (TEFC), 1000:1 (TENV)	1000:1 (TENV)	2000:1 (all enclosures) TEFC: 20:1 on V/H drives
Constant Horsepower speed range	2:1 (90-120 Hz intermittent)	2:1 (90-120 Hz intermittent)	1.5:1-4:1
Temperature rise	B	F	F (TENV & TEFC) B (TEBC)
Encoder provisions (stock motors)	No	Yes	Yes
High Breakdown Torque	Yes	Yes	Yes
<b>Other Characteristics</b>			
Agency listings	UL Recognized, CSA Certified, CE	UL Recognized, CSA Certified, CE	UL Recognized, CSA Certified, CE
Warranty	3 years	3 years	3 years

# IEC Quick Reference Dimensional Chart

## B3 Foot-Mounted (Ridge Base)

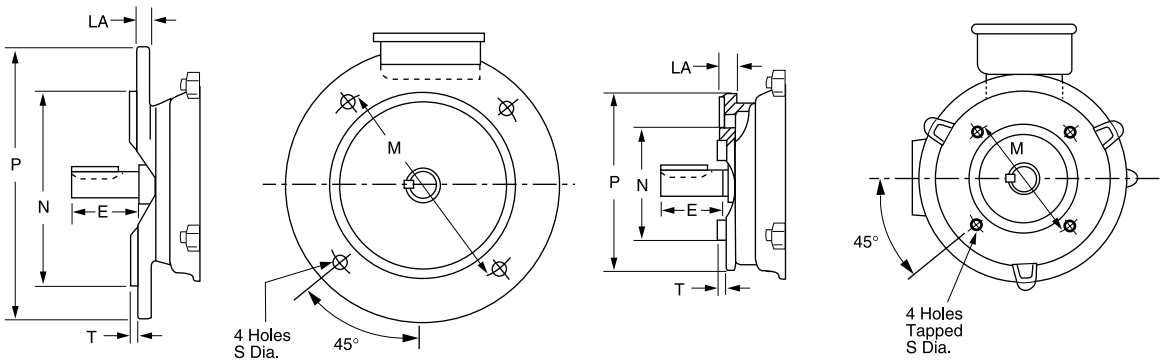


## IEC Frame Dimensions (Millimeters)

FRAME	Mounting						Shaft						General			B5 (FF) Flange						B14 (FT) Face					
	A	B	C	H	AB	K	D	E	F	G	ED	DH	AC	AD	HD	M	N	P	S	T	LA	M	N	P	S	T	LA
63	100	80	40	63	119	7	11	23	4	8.5	10	M4 x 10	126	-	169	115	95	140	10	3.0	7	75	60	90	M5	2.5	7
71	112	90	45	71	131	7	14	30	5	11.0	20	M5 x 12.5	140	-	186	130	110	160	10	3.5	7	85	70	105	M6	2.5	9
80	125	100	50	80	157	10	19	40	6	15.5	25	M6 x 16	158	132	212	165	130	200	12	3.5	12	100	80	120	M6	3.0	9
90S	140	100	56	90	174	10	24	50	8	20.0	32	M8 x 19	178	140	230	165	130	200	12	3.5	12	115	95	140	M8	3.0	9
90L	140	125	56	90	174	10	24	50	8	20.0	32	M8 x 19	178	140	230	165	130	200	12	3.5	12	115	95	140	M8	3.0	9
100L	160	140	63	100	205	12	28	60	8	24.0	40	M10 x 22	215	178	278	215	180	250	15	4.0	11	130	110	160	M8	3.5	14
112M	190	140	70	112	245	12	28	60	8	24.0	40	M10 x 22	220	190	302	215	180	250	15	4.0	12	130	110	160	M8	3.5	11
132S	216	140	89	132	280	12	38	80	10	33.0	56	M12 x 28	275	210	342	265	230	300	15	4.0	12	165	130	200	M10	3.5	14
132M	216	178	89	132	280	12	38	80	10	33.0	56	M12 x 28	275	210	342	265	230	300	15	4.0	12	165	130	200	M10	3.5	14
160M	254	210	108	160	325	15	42	110	12	37.0	80	M16 x 36	325	254	414	300	250	350	19	5.0	13	215	180	250	M12	4.0	13
160L	254	254	108	160	325	15	42	110	12	37.0	80	M16 x 36	325	254	414	300	250	350	19	5.0	13	215	180	250	M12	4.0	13
180M	279	241	121	180	335	15	48	110	14	42.5	80	M16 x 36	360	310	490	300	250	350	19	5.0	15	<b>NOT DEFINED BY IEC 72</b>					
180L	279	279	121	180	335	15	48	110	14	42.5	80	M16 x 36	360	310	490	300	250	350	19	5.0	15						
200L	318	305	133	200	395	19	55	110	16	49.0	100	M20 x 42	400	340	540	350	300	400	19	5.0	19.5						
225S	356	286	149	225	435	19	55 <sup>/</sup> <sub>60</sub>	110 <sup>/</sup> <sub>140</sub>	16 <sup>/</sup> <sub>18</sub>	49 <sup>/</sup> <sub>53</sub>	100 <sup>/</sup> <sub>125</sub>	M20 x 42	445	414	639	400	350	450	19	5.0	21.0						
225M	356	311	149	225	435	19	55 <sup>/</sup> <sub>60</sub>	110 <sup>/</sup> <sub>140</sub>	16 <sup>/</sup> <sub>18</sub>	49 <sup>/</sup> <sub>53</sub>	100 <sup>/</sup> <sub>125</sub>	M20 x 42	445	414	639	400	350	450	19	5.0	21.0						
250M	406	349	168	250	490	24	60 <sup>/</sup> <sub>65</sub>	140	18	53 <sup>/</sup> <sub>58</sub>	125	M20 x 42	500	440	690	400	350	450	19	5.0	21.0						

\*2 Pole Dimensions

1mm = .03937", 1" = 25.4mm



**FF Flange B5 Mount**

**FT Face B14 Mount**

# Footnotes

1	Capacitor Start/Capacitor Run design for reduced amperage	75	Addition of C-Face Kits may result in non-NEMA "BA", dimension. For the resulting "BA" dimension consult chart found in modification section
2	Capacitor Start Induction Run design	76	Addition of C-Face Kits in non-NEMA "AH" dimension. "AH" is 2.12, Rework "AH" is 2.38
3	Split Phase design	77	Frame size is drilled with three sets of footholes, 5010, 5011, and 5012 as standard. Foothole drilling for 5009 available upon request, as a build-up
4	Sleeve bearing	78	Frame size is drilled with two sets of footholes, 5012 and 5013 standard
5	56H, 143T, and 145T Combination Base with 12 mounting holes	79	Ball brgs on both ends suitable for direct connection. For belted applications, refer to Customer Service
6	Bolt-on removable base for footless mounting option	80	Rolled steel fan guard on 143T-145T
7	Shaft extension 1-1/2" long by 1/2" diameter	81	24" long #18 SO 2-conductor cord out shell at 11 o'clock position
8	Shaft extension 1-7/8" long by 1/2" diameter	82	Welded Rigid Base
9	Shaft extension 2-1/4" long by 1/2" diameter	83	Shaft extension 1-7/8" long by 5/8" diameter with 6-3/8" mounting flange
10	Shaft extension 2-1/4" long by 5/8" diameter	84	NEMA 145T C-Face mounting with removable 182T rigid base
11	Shaft extension 2-1/4" long by 7/8" diameter	85	Not tach adaptable
12	With rigid base	86	2:1 constant torque speed range; RTM for greater torque capability
13	F1 Mounting only, cannot reassemble to F2	87	10:1 Constant Torque available as build-up, RTM for price and availability
14	Will accept C-Face kit, see Accessory Section	88	182T base and shaft height, 145TC mounting face and shaft dimensions
15	Fixed CW Rotation, viewing opposite shaft (or lead end) of motor	89	Threaded NPT opening in conduit box
16	Fixed CCW Rotation, viewing opposite shaft (or lead end) of motor	90	Not UL Recognized
17	1.0 Service Factor	91	Suitable for use on VFD at 208 volt
18	1.15 Service Factor	92	7/8" Thru-bolts, shaft end
19	1.25 Service Factor	93	Permanent split capacitor-switchless
20	1.35 Service Factor	94	1/2" Thru-bolts, shaft end
21	Double shaft extension 1-1/2" long by 1/2" diameter with flat each end	95	Will not accept drip cover kit
22	Double shaft extension 1-7/8" long by 5/8" diameter each end	96	3 lead reversible design works with single pole, double throw reversing switch
23	Shaft extension 3/8" diameter	97	Addition of D-Flange kit will result in non-NEMA "BA" dimension (1/2" longer than NEMA) and non-NEMA shaft extension (1/2" shorter than NEMA).
24	Motor will NOT accept a Brake kit	98	Not UL Listed for Fire Pump applications
25	Motor will NOT accept C-Face Kits	99	Suitable for 2:1 CT operation
26	5/8" shaft adapter included	100	6" shaft extension with 2 flats 90° apart
27	Drip Cover included	110	1.20 Service Factor
28	Steel Endshields	111	1.30 Service Factor
29	Weep holes with removable plugs on end brackets. Remove bottom plug after installation	112	1.40 Service Factor
30	Resilient ring mount, base not included	113	1.50 Service Factor
31	5/8" Thru-bolts, shaft end	114	1.60 Service Factor
32	3/4" Thru bolts, shaft end	115	1.75 Service Factor
33	Shaft extension 6" long by 5/8" diameter with full flat and key 90° apart	116	1-3/4" thru-bolt extension on shaft-end
34	1" Thru-bolts, shaft end	2:1	Suitable for 2:1 CT operation; consult "R164 Rework" table for fan change pricing to upgrade to 10:1 CT
35	1-1/8" Thru-bolts, shaft end	A	NEMA Design A
36	1-1/4" Thru-bolts, shaft end	AH	Conforms to GM 7EH and satisfies Ford EM-1 and GM 7EQ
37	1-1/2" Thru-bolts, shaft end	AL	Aluminum Frame Construction
38	2" Thru-bolts, shaft end	AQ	Conforms to GM 7EQ and satisfies Daimler Chrysler NPEM-100, and Ford EM-1
39	No Thru-bolts, shaft end	BI	Class B Insulation
40	Space heaters and 100 ohm platinum stator RTDs included.	B	NEMA Design B
41	1/2" Thru-bolts, opposite shaft end	BP	Separate power supply required for blower motor
42	3/4" Thru-bolts, opposite shaft end	C	NEMA Design C
43	2-1/2" Resilient Rings included	CD	Suitable for Group C
44	1" Thru-bolts, opposite shaft end	CF	Consult Factory for Accessory Kit and/or Modification Selection
45	60° C ambient	CT	Suitable for 20:1 CT on Vector Drive, cont duty or 2000:1 CT, 60 min duty
46	65° C ambient	d	Will become build-up item when current stock is gone
47	Connected for CCW rotation (U.S. standard) facing opposite shaft end. Reversible by reconnection of leads	E	Design incorporates electronic switch
48	Connected for CW rotation (Canadian standard) facing opposite shaft end. Reversible by reconnection of leads	ES	Energy Saver Design
49	Shaft extension 1-13/16" long by 1/2" diameter with 6-3/8" mounting flange	F	Class F Insulation
50	Designed for 50 Hz operation	FN	Drive has cooling fan
51	Does not include resilient rings, see Accessory Section	H	Cass H Insulation
52	1/2" x 1-7/8" Shaft with 1-5/8" Flat	I	Reduced HP @ 120 HZ
53	1/2" Shaft with 5/8" adapter and Key	N	Totally Enclosed, Non-Ventilated
54	30 minute duty cycle, not rated for continuous duty	NE	Exempt from NEMA Premium efficiency requirement
55	Shaft extension 3-13/16" long by 5/8" diameter with 3.5" keyway	NP	Does not meet NEMA PremiumR efficiency
56	1-5/8" Thru-bolts, shaft end	NS	Single Shielded Ball Bearings
57	Open construction	PW	Part Winding Start Capability
58	Capacitor supplied with motor	Q	"Quick Connect" terminal board
59	TEAO construction	RB	Roller Bearing on shaft end for belted load only
60	Foot locating Set Screws on frame, 90° apart	S	Steel Frame Construction
61	10" Leads	SH	Space heaters
62	43" Leads	SL	Sound level exceeds standard
63	1-1/2" Thru-bolts, opposite shaft end	TS	Normally Closed Thermostats installed
65	Mounting accessories and resilient ring for pulley end are not included. Use accessory kit 161L131AB1 for resilient ring mounting.	V	Suitable for 10:1 CT 60 minute duty, otherwise 2:1 CT
67	Capacitor not included, see Accessory Section	VB	Vibration not met
68	Rated 60/50 hertz, 190/380 or 380 volt at next lower horsepower	VC	Voltage Change Device feature for quick voltage changes
69	50° C Ambient	X	XRI, Ultra High Efficiency Design
70	Not Nameplated 50 hz	YD	12 Leads for WYE-DELTA, Part Winding on low voltage, or across-the-line starting
71	Includes length adapter bracket	Z	56HZ with 7/8" x 2 1/4" shaft, 3-1/2" height, and slotted 56 frame base
72	Usable on 200 Volts at 1.0 service factor		
73	No hubs		
74	Split phase/capacitor run electrical design		



# Motors for the long run

Specifications	Features	GLOBE-TROTTER®	BLUE CHIP® XRI®	BLUE CHIP® XRI® SD	BLUE CHIP® XRI® 841	BLUE CHIP® XRI® XP
Enclosures	Totally Enclosed Fan Cooled	•	•	•	•	•
	Open Dripproof	•	•			
Voltage	208-230/460 volt through 100 HP; 460 volt 125 HP and larger	•				
	230/460 volt through 100 HP, 460 volt 125 HP and larger		•	•		•
	460 volt (three lead)			•	•	•
	575 volt (three lead)	•	•	•	•	•
Service Factor (sine wave)	1.15	•	•	•	•	•
	1.25 through 40 HP (see SB300 catalog for restrictions)		•	•	•	•
Inverter Duty	10:1 variable torque	•	•	•	•	•
	Up to 10:1 constant torque	•	•	•	•	•
	Up to 20:1 constant torque		•	•	•	•
	Provisions to add hollow shaft encoder (TEFC only)		•	•	•	•
Insulation System	Non-hygroscopic Class F system 143T-445T, Class H 447/9T	•	•			
	MAX GUARD®			•	•	•
Balance	Special balance average 0.08 in/sec.			•	•	•
Bearings & Lubrication	Shielded ball bearings, C-3 fit with premium Mobil Polyrex EM grease (-30°C to +150°C)	•	•	•	•	•
	Open bearings, 364T Frame and larger	•				
	Zerk fittings (Globetrotter 324T and larger)	•		•	•	•
	Extended grease tubes for regreasing without disassembly			•	•	•
Bearing Caps	Cast iron, 182T and larger					•
	Cast iron, 254T and larger	•		•	•	
	Cast iron, 444T and larger		•			
Construction	Rolled Steel	•	•	•		
	Cast Iron	•	•	•	•	•
Conduit Box	Steel 56-326T, Cast iron (364T and larger, non threaded)		•			
	Steel 143T-215T, Cast iron 254T and larger, non threaded	•				
	Cast iron, oversized, fully gasketed				•	•
Leads	Lead lugs 364T and larger		•	•	•	•
	Permanently marked leads with lead separator			•	•	•
Fan Guard (TEFC)	Steel	•				
	Polypropylene (182T-326T)		•			
	Cast iron (including XRI 364T and larger)		•	•	•	•
Fan (External)	Non-sparking polypropylene (TEFC)	•			•	•
Drains	Corrosion resistant brass drain and breather			•	•	•
	Drilled and tapped hole		•			
	Drain hole 143T-326T, drilled and tapped hole 364T and larger	•				
Epoxy Finish	Internal and external corrosion resistant epoxy			•	•	•
Hardware	Corrosion resistant zinc dichromate plated hex head hardware		•	•	•	•
	Lifting provisions, 182T and larger	•	•	•	•	•
Ground	Ground lug provision in conduit box	•	•	•	•	•
	External grounding provision				•	
Nameplate	Stainless steel - includes NEMA nominal efficiency and power factor		•	•	•	•
	AFBMA bearing identification plate		•	•	•	•
Seals	V-Ring (Forsheda) seal on drive end (254 and larger)	•				
	Inpro/Seal VBX Bearing Isolators on drive end of TENV and both ends of TEFC				•	
Slinger	Molded neoprene slinger on shaft end	•	•	•	•	•
Marine Duty	Meets IEEE45 and USCG			•	•	•
	Meets API RP14F for offshore platforms				•	
Division 1 Hazardous Duty	CSA Certification, UL Listed, Class I & II Groups C,D,F,G, Temperature Code T3B					•
Division 2 Hazardous Duty	CSA Certification nameplate, Class 1 Groups A, B, C, D, Temperature Code T2B			•	•	
Motor Testing	Actual short commercial test data supplied with each motor		•			
	Actual short commercial test data plus max. vibration test supplied with each motor			•		•
	Actual short commercial test data plus 2 additional vibration tests supplied with each motor				•	
Agency Listings	UL Recognized	•	•	•	•	•
	CSA Certified	•	•	•	•	•
	CE Mark	•	•	•	•	•
Warranty	24 mo. from date of first use, 30 mo. from date of manufacture	•				
	36 mo. from date of first use, 42 mo. from date of manufacture		•	•		•
	60 mo. from date of first use, 66 mo. from date of manufacture				•	
	Optional extended warranty			•	•	



**Globetrotter®**  
TEFC & ODP



**Blue Chip® XRI®**  
TENV & TEFC



**Blue Chip® XRI® - Severe Duty**  
TENV & TEFC



**Blue Chip® XRI® - 841**  
I EEE 841



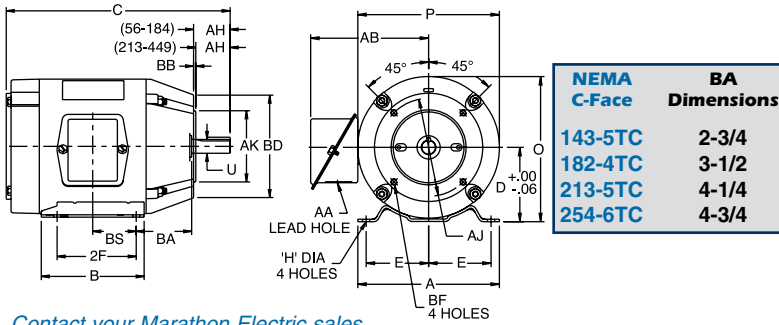
**Blue Chip® XRI® - Hazardous Duty**  
Division 1, Class I & II  
Groups C, D, F & G

SB300 – Prices and Specifications are subject to change without notice.



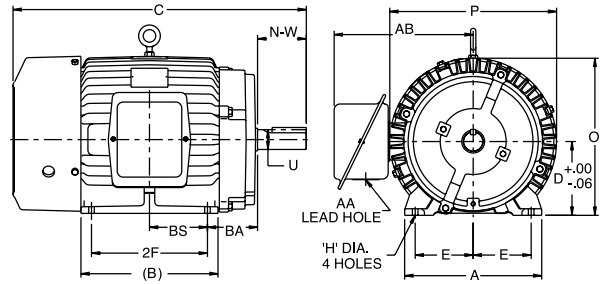
# NEMA Quick Reference Dimensional Chart

## Typical C-Face Motor



NEMA C-Face	BA Dimensions
143-5TC	2-3/4
182-4TC	3-1/2
213-5TC	4-1/4
254-6TC	4-3/4

## Typical Rigid Base Motor



Contact your Marathon Electric sales representative for "AB", "O", & "P" Dimensions.

Refer to your Marathon Electric catalog for "C" Dimensions.

FRAME	D	E	2F	H	U	N-W	AA	AH	AJ	AK	BA	BB (MIN)	BD (MAX)	BF
48	3.00	2.12	2.75	.34 SLOT	.5000	1.50	1/2	1.69	3.750	3.000	2.50	.13	5.62	1/4-20
56	3.50	2.44	3.00	.34 SLOT	.6250	1.88	1/2	2.06	5.875	4.500	2.75	.13	6.50	3/8-16
56H	3.50	2.44	5.00	.34 SLOT	.6250	1.88	1/2	2.06	5.875	4.500	2.75	.13	6.50	3/8-16
143T	3.50	2.75	4.00	.34	.8750	2.25	3/4	2.12	5.875	4.500	2.25	.13	6.50	3/8-16
145T	3.50	2.75	5.00	.34	.8750	2.25	3/4	2.12	5.875	4.500	2.25	.13	6.50	3/8-16
182	4.50	3.75	4.50	.41	.8750	2.25	3/4	2.12	5.875	4.500	2.75	.13	6.50	3/8-16
184	4.50	3.75	5.50	.41	.8750	2.25	3/4	2.12	5.875	4.500	2.75	.13	6.50	3/8-16
182T	4.50	3.75	4.50	.41	1.125	2.75	3/4	2.62	7.250	8.500	2.75	.25	9.00	1/2-13
184T	4.50	3.75	5.50	.41	1.125	2.75	3/4	2.62	7.250	8.500	2.75	.25	9.00	1/2-13
213	5.25	4.25	5.50	.41	1.125	3.00	1	2.75	7.250	8.500	3.50	.25	9.00	1/2-13
215	5.25	4.25	7.00	.41	1.125	3.00	1	2.75	7.250	8.500	3.50	.25	9.00	1/2-13
213T	5.25	4.25	5.50	.41	1.375	3.38	1	3.12	7.250	8.500	3.50	.25	9.00	1/2-13
215T	5.25	4.25	7.00	.41	1.375	3.38	1	3.12	7.250	8.500	3.50	.25	9.00	1/2-13
254U	6.25	5.00	8.25	.53	1.375	3.75	1-1/4	3.50	7.250	8.500	4.25	.25	10.00	1/2-13
256U	6.25	5.00	10.00	.53	1.375	3.75	1-1/4	3.50	7.250	8.500	4.25	.25	10.00	1/2-13
254T	6.25	5.00	8.25	.53	1.625	4.00	1-1/4	3.75	7.250	8.500	4.25	.25	10.00	1/2-13
256T	6.25	5.00	10.00	.53	1.625	4.00	1-1/4	3.75	7.250	8.500	4.25	.25	10.00	1/2-13
284U	7.00	5.50	9.50	.53	1.625	4.88	1-1/2	4.62	9.000	10.500	4.75	.25	11.25	1/2-13
286U	7.00	5.50	11.00	.53	1.625	4.88	1-1/2	4.62	9.000	10.500	4.75	.25	11.25	1/2-13
284T	7.00	5.50	9.50	.53	1.875	4.62	1-1/2	4.38	9.000	10.500	4.75	.25	11.25	1/2-13
286T	7.00	5.50	11.00	.53	1.875	4.62	1-1/2	4.38	9.000	10.500	4.75	.25	11.25	1/2-13
284TS	7.00	5.50	9.50	.53	1.625	3.25	1-1/2	3.00	9.000	10.500	4.75	.25	11.25	1/2-13
286TS	7.00	5.50	11.00	.53	1.625	3.25	1-1/2	3.00	9.000	10.500	4.75	.25	11.25	1/2-13
324U	8.00	6.25	10.50	.66	1.875	5.62	2	5.38	11.000	12.500	5.25	.25	14.00	5/8-11
326U	8.00	6.25	12.00	.66	1.875	5.62	2	5.38	11.000	12.500	5.25	.25	14.00	5/8-11
324T	8.00	6.25	10.50	.66	2.125	5.25	2	5.00	11.000	12.500	5.25	.25	14.00	5/8-11
326T	8.00	6.25	12.00	.66	2.125	5.25	2	5.00	11.000	12.500	5.25	.25	14.00	5/8-11
324TS	8.00	6.25	10.50	.66	1.875	3.75	2	3.50	11.000	12.500	5.25	.25	14.00	5/8-11
326TS	8.00	6.25	12.00	.66	1.875	3.75	2	3.50	11.000	12.500	5.25	.25	14.00	5/8-11
364U	9.00	7.00	11.25	.66	2.125	6.38	2-1/2	6.12	11.000	12.500	5.88	.25	14.00	5/8-11
365U	9.00	7.00	12.25	.66	2.125	6.38	2-1/2	6.12	11.000	12.500	5.88	.25	14.00	5/8-11
364T	9.00	7.00	11.25	.66	2.375	5.88	2-1/2	5.62	11.000	12.500	5.88	.25	14.00	5/8-11
365T	9.00	7.00	12.25	.66	2.375	5.88	2-1/2	5.62	11.000	12.500	5.88	.25	14.00	5/8-11
364TS	9.00	7.00	11.25	.66	1.875	3.75	2-1/2	3.50	11.000	12.500	5.88	.25	14.00	5/8-11
365TS	9.00	7.00	12.25	.66	1.875	3.75	2-1/2	3.50	11.000	12.500	5.88	.25	14.00	5/8-11
404U	10.00	8.00	12.25	.81	2.375	7.12	3	6.88	11.000	12.500	6.62	.25	15.50	5/8-11
405U	10.00	8.00	13.75	.81	2.375	7.12	3	6.88	11.000	12.500	6.62	.25	15.50	5/8-11
404T	10.00	8.00	12.25	.81	2.875	7.25	3	7.00	11.000	12.500	6.62	.25	15.50	5/8-11
405T	10.00	8.00	13.75	.81	2.875	7.25	3	7.00	11.000	12.500	6.62	.25	15.50	5/8-11
404TS	10.00	8.00	12.25	.81	2.125	4.25	3	4.00	11.000	12.500	6.62	.25	15.50	5/8-11
405TS	10.00	8.00	13.75	.81	2.125	4.25	3	4.00	11.000	12.500	6.62	.25	15.50	5/8-11
444U	11.00	9.00	14.50	.81	2.875	8.62	3	8.38	14.000	16.000	7.50	.25	18.00	5/8-11
445U	11.00	9.00	16.50	.81	2.875	8.62	3	8.38	14.000	16.000	7.50	.25	18.00	5/8-11
444T	11.00	9.00	14.50	.81	3.375	8.50	3	8.25	14.000	16.000	7.50	.25	18.00	5/8-11
445T	11.00	9.00	16.50	.81	3.375	8.50	3	8.25	14.000	16.000	7.50	.25	18.00	5/8-11
444TS	11.00	9.00	14.50	.81	2.375	4.75	3	4.50	14.000	16.000	7.50	.25	18.00	5/8-11
445TS	11.00	9.00	16.50	.81	2.375	4.75	3	4.50	14.000	16.000	7.50	.25	18.00	5/8-11
447T	11.00	9.00	20.00	.81	3.375	8.50	3	8.25	14.000	16.000	7.50	.25	18.00	5/8-11
449T	11.00	9.00	25.00	.81	3.375	8.50	3	8.25	14.000	16.000	7.50	.25	18.00	5/8-11
447TS	11.00	9.00	20.00	.81	2.375	4.75	4 NPT	4.50	14.000	16.000	7.50	.25	18.00	5/8-11
449TS	11.00	9.00	25.00	.81	2.375	4.75	4 NPT	4.50	14.000	16.000	7.50	.25	18.00	5/8-11



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