# A COMPLETE FAMILY OF MOTORS, CONTROLS & GEAR REDUCERS

## From WorldWide Electric

## 2012-2013 Stock Products Catalog




WorldWide Electric Corporation
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# QUICK-SELECT PRODUCT GUIDE

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# WORLDWIDE ELECTRIC CORPORATION

## *Application Listing*

*WorldWide Electric Motors, Controls And Gear Reducers Have Been Running Successfully For Over Ten Years In The Following Applications And Many Others!*

- Agitators
- Air Conditioners
- Air Curtains
- Air Filters
- Air Locks
- Amusement Park Equipment
- Augers
- Ball Mills
- Ball Pitchers
- Belt Conveyors
- Blowers
- Boat Lifts
- Boilers
- Broachers
- Brushes
- Bucket Conveyors
- Bucket Elevators
- Buffers
- Centrifugal Pumps
- Centrifuges
- Chain Conveyors
- Chippers
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- Collectors
- Compactors
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- Converters
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- Cotton Gins
- Cranes
- Crushers
- Dish Washers
- Drag Conveyors
- Dredges
- Drills
- Dryers
- Dust Collectors
- Elevators
- Excavators
- Extruders
- Fans
- Farm Equipment
- Feeders
- Filter Carts
- Fire Pumps
- Flood Irrigation Pumps
- Food Processing Equipment
- Generators
- Grain Dryers
- Grinders
- Hatchers
- Head Saws
- Heaters
- Hoists
- Hoppers
- HVAC
- Hydraulic Lifts
- Hydraulic Power Units
- Ice Makers
- Irrigation Equipment
- Kilns
- Lathes
- Lubricators
- Material Handling Equipment
- Mills
- Misters
- Mixers
- Mud Pumps
- Oil Pump Jacks
- Oil Wells
- Opener Devices
- Packaging Machinery
- Pellet Mills
- Pit Pumps
- Pivot Systems
- Plunger Pumps
- Polishers
- Pool Pumps
- Presses
- Pressure Washers
- Printers
- Pumps
- Punch Presses
- Reband Saws
- Reclaim Pumps
- Recycling Equipment
- Rock Crushers
- Saw Mills
- Saws
- Screens
- Screw Conveyors
- Separation Equipment
- Shakers
- Shredders
- Ski Lift Equipment
- Slitters
- Sprayers
- Sprinklers
- Stampers
- Sweep Augers
- Turbines
- Vacuums
- Vibrating Screen Decks
- Washers
- Water Curtains
- Water Transfers
- Welders
- Well Drilling
- Wood Splitters

# WORLDWIDE ELECTRIC CORPORATION

## *Certifications / Accreditations / Quality Assurances*

*All WorldWide Electric Products Carry The Very Finest Certifications / Accreditations / Quality Assurances Available Today!*

The CSA Mark means a motor has been tested and meets applicable standards for safety and / or performance, including the applicable standards written or administered by the American National Standards Institute (ANSI), Underwriters Laboratories (UL), Canadian Standards Association (CSA), National Sanitation Foundation (NSF) and others.

The CE Mark is a requirement for motors sold to the European Market. The CE Mark identifies a motor as complying with the health and safety requirements spelled out in European Legislation (Directives) and is mandatory for equipment operating in the European Union (EU).

The ISO Certification is a most difficult quality standard for companies to achieve. The International Standards Organization states consistent quality control standards are in place to oversee and ensure the manufacturing process of the product line.

UL Listing means that Underwriters Laboratories Inc. (UL) has tested representative samples of the product and determined that it meets UL's requirements. These requirements are based primarily on UL's published and nationally recognized Standards for Safety. All WorldWide Electric explosion proof motors are UL Listed.

WorldWide Electric Corporation is proud to be an ongoing participant with Advanced Energy in the design and execution of a motor testing / quality assurance program for all WorldWide Electric motor product lines.

# WORLDWIDE ELECTRIC CORPORATION

## *Association Memberships*

*WorldWide Electric Corporation Holds Membership In The Following Associations ...*

Associate Member

ELECTRICAL APPARATUS SERVICE ASSOCIATION EASA

*Reliable Solutions Today!*

The Electrical Apparatus Service Association, Inc. (EASA) is an international trade organization of over 2,100 electromechanical sales and service firms in 58 countries. Through its many engineering and educational programs, EASA provides members with a means of keeping up to date on materials, equipment and state-of-the-art technology.

THE FPDA MOTION & CONTROL NETWORK MEMBER

The Fluid Power Distributors Association (FPDA) is the professional network for fluid power, automation and motion technology providers dedicated to significantly enhancing member and channel performance by delivering indispensable networking, education and success strategies.

PTRA

The Power-Motion Technology Representatives Association (PTRA) is an Association of independent manufacturers' representatives and manufacturers dedicated to promoting the sales representation (rep) function in the power transmission and motion control industries.

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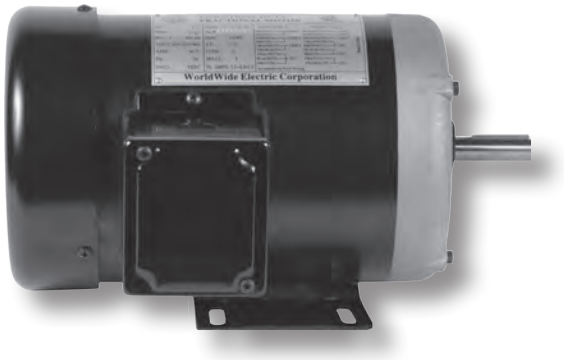
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# WORLDWIDE FRACTIONAL HP MOTORS

## *General Purpose Motors*

### *TEFC Enclosure ▪ Rigid Base*

### *Three-Phase ▪ 208-230/460 and 575 Volt*




## Product Overview

- 1/3 - 2 HP
- 1800 RPM
- 208-230/460 and 575 volt
- TEFC enclosure
- 1.15 service factor
- Class F insulation
- Rigid base
- Shaft slinger to keep moisture and contaminants from the drive-end bearing
- Inverter duty
- Suitable for 50 hz operation with 1.0 service factor

C US

## 208-230/460 Volt

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| ⅓ | 1800 | 208-230/460 | 56 | AT13-18-56 | $180.35 | 0.8 | 68.0 | 23 | |
| ½ | 1800 | 208-230/460 | 56 | AT12-18-56 | $192.26 | 1.0 | 70.0 | 23 | |
| ¾ | 1800 | 208-230/460 | 56 | AT34-18-56 | $209.52 | 1.4 | 71.0 | 25 | |
| 1 | 1800 | 208-230/460 | 56 | AT1-18-56 | $235.12 | 1.8 | 72.0 | 27 | |
| 1 ½ | 1800 | 208-230/460 | 56 | AT1.5-18-56 | $301.19 | 2.4 | 74.0 | 30 | |
| 2 | 1800 | 208-230/460 | 56 | AT2-18-56 | $357.14 | 3.0 | 77.0 | 41 | |

## 575 Volt

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| ⅓ | 1800 | 575 | 56 | AT13-18-575-56 | $200.39 | 0.6 | 67.0 | 23 | |
| ½ | 1800 | 575 | 56 | AT12-18-575-56 | $213.62 | 0.8 | 69.0 | 23 | |
| ¾ | 1800 | 575 | 56 | AT34-18-575-56 | $232.80 | 1.1 | 71.0 | 25 | |
| 1 | 1800 | 575 | 56 | AT1-18-575-56 | $261.24 | 1.4 | 73.0 | 27 | |
| 1 ½ | 1800 | 575 | 56 | AT1.5-18-575-56 | $334.66 | 1.8 | 75.0 | 30 | |
| 2 | 1800 | 575 | 56 | AT2-18-575-56 | $396.82 | 2.4 | 77.0 | 41 | |

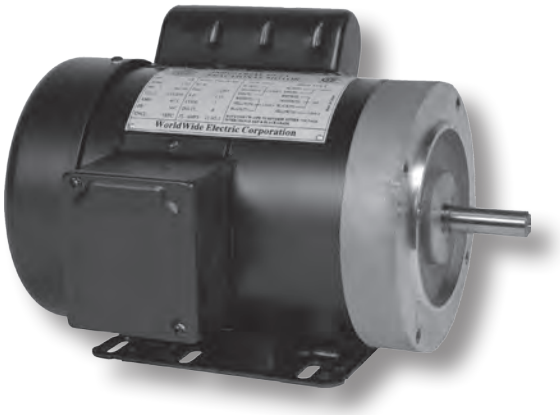
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# WORLDWIDE FRACTIONAL HP MOTORS

## *General Purpose Motors*

### *TEFC Enclosure ▪ C-Face ▪ Removable Base*

### *Single-Phase ▪ 115/208-230 Volt*




## Product Overview

- 1/3 - 2 HP
- 3600 and 1800 RPM
- 115/208-230 volt
- TEFC enclosure
- 1.15 service factor
- Class F insulation
- C-face - removable base
- Capacitor start / induction run (1/3 - 1 HP)
- Capacitor start / capacitor run (1.5 - 2 HP) for reduced amperage and high torque
- Shaft slinger to keep moisture and contaminants from the drive-end bearing
- Available with or without manual overload

## With Manual Overload

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| ⅓ | 1800 | 115/208-230 | 56C | T13-18-56CB-OL | $232.32 | 3.3 | 56.0 | 26 | |
| ½ | 1800 | 115/208-230 | 56C | T12-18-56CB-OL | $244.11 | 4.4 | 57.0 | 27 | |
| ¾ | 1800 | 115/208-230 | 56C | T34-18-56CB-OL | $264.58 | 5.5 | 65.0 | 31 | |
| 1 | 1800 | 115/208-230 | 56C | T1-18-56CB-OL | $293.75 | 6.8 | 68.0 | 34 | |
| 1 ½ | 1800 | 115/208-230 | 56C | T1.5-18-56CB-OL | $367.68 | 7.6 | 71.0 | 37 | |
| 2 | 1800 | 115/208-230 | 56C | T2-18-56CB-OL | $444.64 | 10.0 | 73.0 | 43 | |

## Without Overload

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| ⅓ | 3600 | 115/208-230 | 56C | TJ13-36-56CB-NOL | $192.91 | 3.1 | 58.0 | 23 | |
| | 1800 | 115/208-230 | 56C | T13-18-56CB | $219.82 | 3.3 | 56.0 | 26 | |
| ½ | 3600 | 115/208-230 | 56C | TJ12-36-56CB-NOL | $219.43 | 4.4 | 61.0 | 25 | |
| | 1800 | 115/208-230 | 56C | T12-18-56CB | $231.61 | 4.4 | 57.0 | 27 | |
| ¾ | 3600 | 115/208-230 | 56C | TJ34-36-56CB-NOL | $232.15 | 5.3 | 64.0 | 27 | |
| | 1800 | 115/208-230 | 56C | T34-18-56CB | $252.08 | 5.5 | 65.0 | 31 | |
| 1 | 3600 | 115/208-230 | 56C | TJ1-36-56CB-NOL | $253.99 | 5.6 | 69.0 | 31 | |
| | 1800 | 115/208-230 | 56C | T1-18-56CB | $281.25 | 6.8 | 68.0 | 34 | |
| 1 ½ | 3600 | 115/208-230 | 56C | TJ1.5-36-56CB-NOL | $317.50 | 7.1 | 72.0 | 37 | |
| | 1800 | 115/208-230 | 56C | T1.5-18-56CB | $355.18 | 7.6 | 71.0 | 37 | |
| 2 | 3600 | 115/208-230 | 56C | TJ2-36-56CB-NOL | $349.98 | 9.1 | 75.0 | 40 | |
| | 1800 | 115/208-230 | 56C | T2-18-56CB | $432.14 | 10.0 | 73.0 | 43 | |

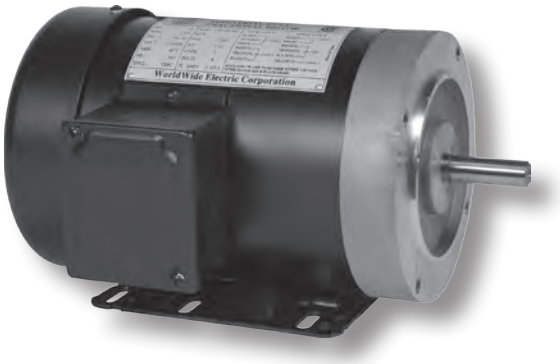
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# WORLDWIDE FRACTIONAL HP MOTORS

## *General Purpose Motors*

### *TEFC Enclosure ▪ C-Face ▪ Removable Base*

### *Three-Phase ▪ 208-230/460 and 575 Volt*




## Product Overview

- 1/3 - 2 HP
- 3600 and 1800 RPM
- 208-230/460 and 575 volt
- TEFC enclosure
- 1.15 service factor
- Class F insulation
- C-face - removable base
- Shaft slinger to keep moisture and contaminants from the drive-end bearing
- Inverter duty
- Suitable for 50 hz operation with 1.0 service factor

## 208-230/460 Volt

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| ⅓ | 3600 | 208-230/460 | 56C | ATJ13-36-56CB | $184.22 | 0.8 | 57.0 | 22 | |
| | 1800 | 208-230/460 | 56C | AT13-18-56CB | $200.54 | 0.8 | 67.0 | 23 | |
| ½ | 3600 | 208-230/460 | 56C | ATJ12-36-56CB | $192.27 | 1.1 | 62.0 | 24 | |
| | 1800 | 208-230/460 | 56C | AT12-18-56CB | $212.98 | 1.0 | 69.0 | 23 | |
| ¾ | 3600 | 208-230/460 | 56C | ATJ34-36-56CB | $209.26 | 1.5 | 67.0 | 25 | |
| | 1800 | 208-230/460 | 56C | AT34-18-56CB | $230.95 | 1.4 | 71.0 | 25 | |
| 1 | 3600 | 208-230/460 | 56C | ATJ1-36-56CB | $237.84 | 1.8 | 69.0 | 27 | |
| | 1800 | 208-230/460 | 56C | AT1-18-56CB | $257.68 | 1.8 | 73.0 | 27 | |
| 1 ½ | 3600 | 208-230/460 | 56C | ATJ1.5-36-56CB | $269.30 | 2.3 | 72.0 | 30 | |
| | 1800 | 208-230/460 | 56C | AT1.5-18-56CB | $326.61 | 2.4 | 74.0 | 30 | |
| 2 | 3600 | 208-230/460 | 56C | ATJ2-36-56CB | $297.62 | 3.0 | 75.0 | 37 | |
| | 1800 | 208-230/460 | 56C | AT2-18-56CB | $384.94 | 3.0 | 77.0 | 41 | |

## 575 Volt

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| ⅓ | 1800 | 575 | 56C | AT13-18-575-56CB | $222.82 | 0.6 | 67.0 | 23 | |
| ½ | 1800 | 575 | 56C | AT12-18-575-56CB | $236.64 | 0.8 | 69.0 | 23 | |
| ¾ | 1800 | 575 | 56C | AT34-18-575-56CB | $256.61 | 1.1 | 71.0 | 25 | |
| 1 | 1800 | 575 | 56C | AT1-18-575-56CB | $286.31 | 1.4 | 73.0 | 27 | |
| 1 ½ | 1800 | 575 | 56C | AT1.5-18-575-56CB | $362.90 | 1.8 | 75.0 | 30 | |
| 2 | 1800 | 575 | 56C | AT2-18-575-56CB | $427.71 | 2.4 | 77.0 | 41 | |

Dimensions On Page 92-93

# WORLDWIDE FRACTIONAL HP MOTORS

## *Stainless Steel / Washdown Duty Motors*

### *TENV Enclosure ▪ C-Face ▪ Rigid Base and Round Body*

### *Three-Phase ▪ 208-230/460 Volt*



## Product Overview

- 1/3 - 1 HP
- 1800 RPM
- 208-230/460 volt
- TENV enclosure
- 1.15 service factor
- Class F insulation
- C-face - rigid base and round body
- Double lip seals with an additional shaft slinger on the drive-end
- O-rings installed on endbells to eliminate moisture
- Pre-installed watertight, stainless cord connector
- Inverter duty
- Suitable for 50 hz operation with 1.0 service factor

## Rigid Base

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| ⅓ | 1800 | 208-230/460 | 56C | WSSNV13-18-56CB | $593.87 | 0.6 | 77.5 | 28 | |
| ½ | 1800 | 208-230/460 | 56C | WSSNV12-18-56CB | $618.96 | 0.8 | 79.5 | 31 | |
| ¾ | 1800 | 208-230/460 | 56C | WSSNV34-18-56CB | $660.40 | 1.1 | 80.5 | 33 | |
| 1 | 1800 | 208-230/460 | 56C | WSSNV1-18-56CB | $675.91 | 1.5 | 81.0 | 36 | |

## Round Body

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| ⅓ | 1800 | 208-230/460 | 56C | WSSNV13-18-56CRD | $564.18 | 0.6 | 77.5 | 28 | |
| ½ | 1800 | 208-230/460 | 56C | WSSNV12-18-56CRD | $588.01 | 0.8 | 79.5 | 31 | |
| ¾ | 1800 | 208-230/460 | 56C | WSSNV34-18-56CRD | $627.38 | 1.1 | 80.5 | 33 | |
| 1 | 1800 | 208-230/460 | 56C | WSSNV1-18-56CRD | $642.12 | 1.5 | 81.0 | 36 | |

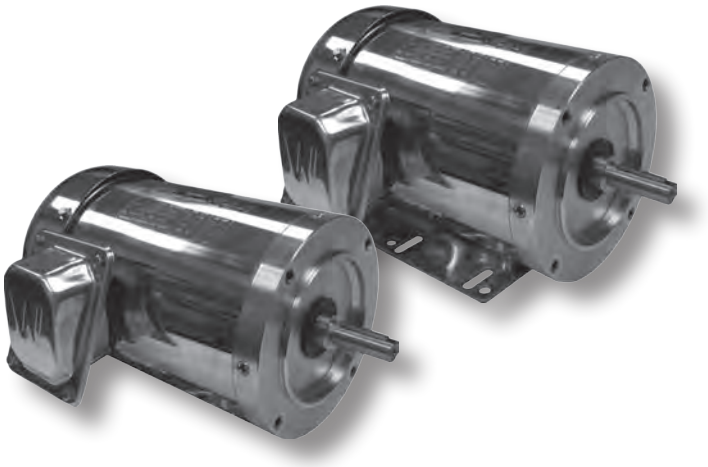
Dimensions On Page 94-95

# WORLDWIDE FRACTIONAL HP MOTORS

## *Stainless Steel / Washdown Duty Motors*

### *TEFC Enclosure ▪ C-Face ▪ Rigid Base and Round Body*

### *Three-Phase ▪ 208-230/460 Volt*



## Product Overview

- 1/3 - 2 HP
- 3600 and 1800 RPM
- 208-230/460 volt
- TEFC enclosure
- 1.15 service factor
- Class F insulation
- C-face - rigid base and round body
- Double lip seals on both ends of the motor with an additional shaft slinger on the drive-end
- O-rings installed on endbells to eliminate moisture
- Pre-installed watertight, stainless cord connector
- Inverter duty
- Suitable for 50 hz operation with 1.0 service factor

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## Rigid Base

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| ⅓ | 1800 | 208-230/460 | 56C | WSS13-18-56CB | $558.24 | 0.6 | 77.5 | 28 | |
| ½ | 3600 | 208-230/460 | 56C | WSS12-36-56CB | $575.67 | 0.8 | 77.0 | 29 | |
| | 1800 | 208-230/460 | 56C | WSS12-18-56CB | $581.82 | 0.8 | 79.5 | 31 | |
| ¾ | 3600 | 208-230/460 | 56C | WSS34-36-56CB | $596.18 | 1.1 | 80.0 | 33 | |
| | 1800 | 208-230/460 | 56C | WSS34-18-56CB | $620.78 | 1.1 | 80.5 | 33 | |
| 1 | 3600 | 208-230/460 | 56C | WSS1-36-56CB | $624.33 | 1.4 | 80.0 | 35 | |
| | 1800 | 208-230/460 | 56C | WSS1-18-56CB | $635.36 | 1.5 | 81.0 | 36 | |
| 1 ½ | 3600 | 208-230/460 | 56C | WSS1.5-36-56CB | $704.33 | 2.1 | 81.5 | 39 | |
| | 1800 | 208-230/460 | 56C | WSS1.5-18-56CB | $711.03 | 2.5 | 83.0 | 42 | |
| 2 | 3600 | 208-230/460 | 56C | WSS2-36-56CB | $757.02 | 2.6 | 84.0 | 45 | |
| | 1800 | 208-230/460 | 56C | WSS2-18-56CB | $751.82 | 2.7 | 84.0 | 51 | |

## Round Body

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| ⅓ | 1800 | 208-230/460 | 56C | WSS13-18-56CRD | $530.33 | 0.6 | 77.5 | 28 | |
| ½ | 1800 | 208-230/460 | 56C | WSS12-18-56CRD | $552.73 | 0.8 | 79.5 | 31 | |
| ¾ | 1800 | 208-230/460 | 56C | WSS34-18-56CRD | $589.74 | 1.1 | 80.5 | 33 | |
| 1 | 1800 | 208-230/460 | 56C | WSS1-18-56CRD | $603.59 | 1.5 | 81.0 | 36 | |
| 1 ½ | 1800 | 208-230/460 | 56C | WSS1.5-18-56CRD | $675.48 | 2.5 | 83.0 | 42 | |
| 2 | 1800 | 208-230/460 | 56C | WSS2-18-56CRD | $714.23 | 2.7 | 84.0 | 51 | |

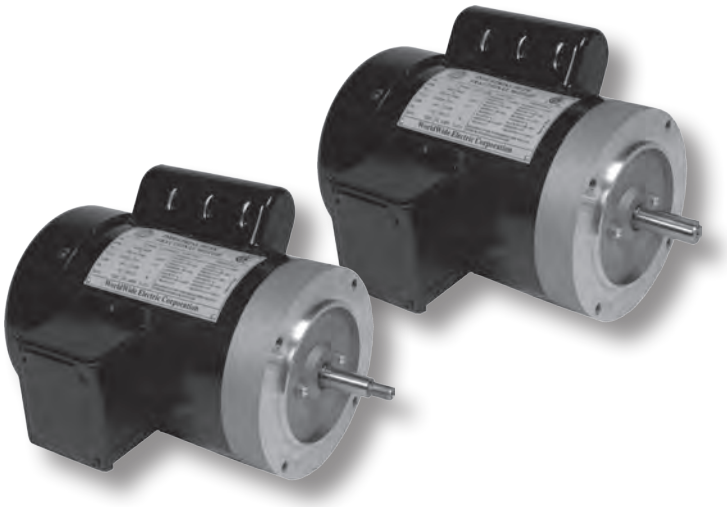
Dimensions On Page 96-97

# WORLDWIDE FRACTIONAL HP MOTORS

## *Jet Pump Motors*

### *TEFC Enclosure ▪ C-Face ▪ Removable Base*

### *Single-Phase ▪ 115-208-230 Volt*



## Product Overview

- 1/3 - 2 HP
- 3600 RPM
- 115/208-230 volt
- TEFC enclosure
- 1.15 service factor
- Class F insulation
- C-face - removable base
- Keyed or threaded shaft
- Capacitor start / induction run (1/3 - 1 HP)
- Capacitor start / capacitor run (1.5 - 2 HP) for reduced amperage and high torque
- Shaft slinger to keep moisture and contaminants from the drive-end bearing
- Automatic overload (56J ratings only)

## Keyed Shaft

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| ⅓ | 3600 | 115/208-230 | 56C | TJ13-36-56CB-NOL | $192.91 | 3.1 | 58.0 | 23 | |
| ½ | 3600 | 115/208-230 | 56C | TJ12-36-56CB-NOL | $219.43 | 4.4 | 61.0 | 25 | |
| ¾ | 3600 | 115/208-230 | 56C | TJ34-36-56CB-NOL | $232.15 | 5.3 | 64.0 | 27 | |
| 1 | 3600 | 115/208-230 | 56C | TJ1-36-56CB-NOL | $253.99 | 5.6 | 69.0 | 31 | |
| 1 ½ | 3600 | 115/208-230 | 56C | TJ1.5-36-56CB-NOL | $317.50 | 7.1 | 72.0 | 37 | |
| 2 | 3600 | 115/208-230 | 56C | TJ2-36-56CB-NOL | $349.98 | 9.1 | 75.0 | 40 | |

## Threaded Shaft

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| ⅓ | 3600 | 115/208-230 | 56J | TJ13-36-56JB | $193.45 | 3.1 | 58.0 | 23 | |
| ½ | 3600 | 115/208-230 | 56J | TJ12-36-56JB | $220.85 | 4.4 | 61.0 | 25 | |
| ¾ | 3600 | 115/208-230 | 56J | TJ34-36-56JB | $233.57 | 5.3 | 64.0 | 27 | |
| 1 | 3600 | 115/208-230 | 56J | TJ1-36-56JB | $255.41 | 5.6 | 69.0 | 31 | |
| 1 ½ | 3600 | 115/208-230 | 56J | TJ1.5-36-56JB | $311.82 | 7.1 | 72.0 | 37 | |
| 2 | 3600 | 115/208-230 | 56J | TJ2-36-56JB | $341.52 | 9.1 | 75.0 | 40 | |

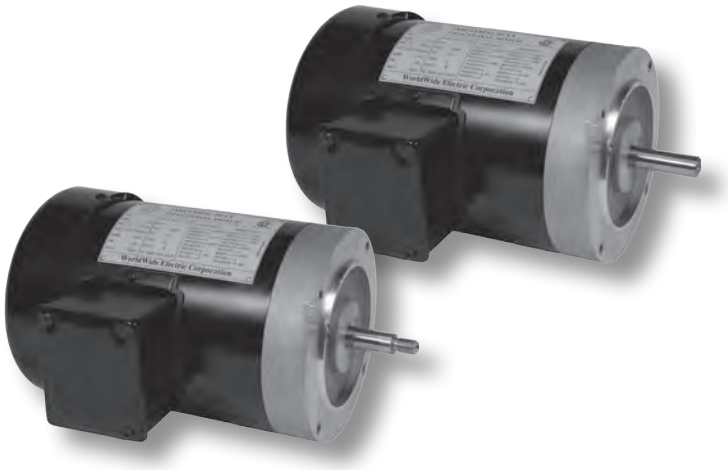
Dimensions On Page 98-99

# WORLDWIDE FRACTIONAL HP MOTORS

## *Jet Pump Motors*

### *TEFC Enclosure ▪ C-Face ▪ Removable Base*

### *Three-Phase ▪ 208-230/460 Volt*



## Product Overview

- 1/3 - 2 HP
- 3600 RPM
- 208-230/460 volt
- TEFC enclosure
- 1.15 service factor
- Class F insulation
- C-face - removable base
- Keyed or threaded shaft
- Shaft slinger to keep moisture and contaminants from the drive-end bearing
- Inverter duty
- Suitable for 50 hz operation with 1.0 service factor

## Keyed Shaft

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| ⅓ | 3600 | 208-230/460 | 56C | ATJ13-36-56CB | $184.22 | 0.8 | 57.0 | 22 | |
| ½ | 3600 | 208-230/460 | 56C | ATJ12-36-56CB | $192.27 | 1.1 | 62.0 | 24 | |
| ¾ | 3600 | 208-230/460 | 56C | ATJ34-36-56CB | $209.26 | 1.5 | 67.0 | 25 | |
| 1 | 3600 | 208-230/460 | 56C | ATJ1-36-56CB | $237.84 | 1.8 | 69.0 | 27 | |
| 1 ½ | 3600 | 208-230/460 | 56C | ATJ1.5-36-56CB | $269.30 | 2.3 | 72.0 | 30 | |
| 2 | 3600 | 208-230/460 | 56C | ATJ2-36-56CB | $297.62 | 3.0 | 75.0 | 37 | |

## Threaded Shaft

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| ⅓ | 3600 | 208-230/460 | 56J | ATJ13-36-56JB | $193.49 | 0.8 | 57.0 | 22 | |
| ½ | 3600 | 208-230/460 | 56J | ATJ12-36-56JB | $207.78 | 1.1 | 62.0 | 24 | |
| ¾ | 3600 | 208-230/460 | 56J | ATJ34-36-56JB | $229.20 | 1.5 | 67.0 | 25 | |
| 1 | 3600 | 208-230/460 | 56J | ATJ1-36-56JB | $257.91 | 1.8 | 69.0 | 27 | |
| 1 ½ | 3600 | 208-230/460 | 56J | ATJ1.5-36-56JB | $283.10 | 2.3 | 72.0 | 30 | |
| 2 | 3600 | 208-230/460 | 56J | ATJ2-36-56JB | $325.89 | 3.0 | 75.0 | 37 | |

Dimensions On Page 100-101

# WORLDWIDE FRACTIONAL HP MOTORS

## *Resilient (Cradle) Base Motors*

### *ODP Enclosure ▪ Resilient (Cradle) Base*

### *Single-Phase ▪ 115/208-230 Volt*



## Product Overview

- 1/3 - 1 HP
- 1800 RPM
- 115/208-230 volt
- ODP enclosure
- Standard NEMA service factors
- Class F insulation
- Resilient (cradle) base
- Capacitor start / induction run

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| ⅓ | 1800 | 115/208-230 | 56 | R13-18-56-NOL | $204.10 | 2.8 | 57.0 | 21 | |
| ½ | 1800 | 115/208-230 | 56 | R12-18-56-NOL | $226.57 | 4.3 | 61.0 | 25 | |
| ¾ | 1800 | 115/208-230 | 56 | R34-18-56-NOL | $264.18 | 5.5 | 64.0 | 29 | |
| 1 | 1800 | 115/208-230 | 56 | R1-18-56-NOL | $307.82 | 6.8 | 69.0 | 33 | |

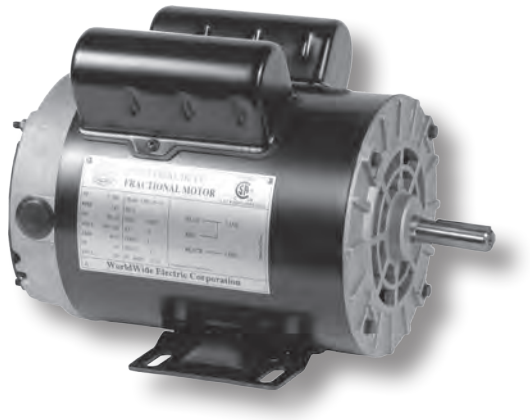
Dimensions On Page 102

# WORLDWIDE FRACTIONAL HP MOTORS

## *Compressor Duty Motors*

### *ODP Enclosure ▪ Rigid Base*

### *Single-Phase ▪ 115/208-230 and 208-230 Volt*




## Product Overview

- 2 and 5 HP
- 3600 RPM
- 115/208-230 volt (2 HP)
- 208-230 volt (5 HP)
- ODP enclosure
- 1.0 service factor
- Class F insulation
- Rigid base
- Capacitor start / capacitor run for reduced amperage and high torque
- Manual overload

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 2 | 3600 | 115/208-230 | 56 | CM2-36-56 | $273.21 | 7.5 | 70.0 | 27 | |
| 5 | 3600 | 208-230 | 56 | CM5-36-56 | $373.76 | 16.0 | 75.0 | 35 | |

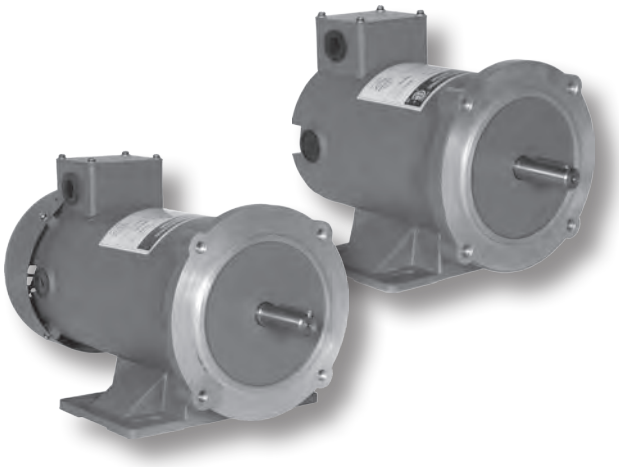
Dimensions On Page 103

# WORLDWIDE FRACTIONAL HP MOTORS

## *Permanent Magnet DC Motors*

### *TENV / TEFC Enclosure ▪ C-Face ▪ Removable Base*

### *90, 180, 12 and 24 Volt*



## Product Overview

- 1/4 - 2 HP
- 1800 RPM
- 90, 180, 12 and 24 volt
- TENV enclosure (1/4 - 1/2 HP)
- TEFC enclosure (3/4 - 2 HP)
- 1.0 service factor
- Class F insulation
- C-face - removable base
- 20:1 speed range at constant torque
- High starting torque
- Extra set of brushes and brush springs included
- 12 volt and 24 volt models used in applications where low voltage DC power is supplied by batteries or generators

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## 90 Volt and 180 Volt

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| ¼ | 1800 | 90 | 56C | WPMDC14-18-90V-56CB | $272.73 | 2.9 | 80.0 | 17 | |
| ⅓ | 1800 | 90 | 56C | WPMDC13-18-90V-56CB | $291.54 | 3.5 | 82.0 | 19 | |
| | 1800 | 180 | 56C | WPMDC13-18-180V-56CB | $288.40 | 1.8 | 82.0 | 19 | |
| ½ | 1800 | 90 | 56C | WPMDC12-18-90V-56CB | $373.04 | 5.2 | 82.0 | 22 | |
| | 1800 | 180 | 56C | WPMDC12-18-180V-56CB | $369.94 | 2.6 | 82.0 | 22 | |
| ¾ | 1800 | 90 | 56C | WPMDC34-18-90V-56CB | $423.86 | 7.8 | 82.0 | 28 | |
| | 1800 | 180 | 56C | WPMDC34-18-180V-56CB | $420.06 | 3.9 | 82.0 | 28 | |
| 1 | 1800 | 90 | 56C | WPMDC1-18-90V-56CB | $473.98 | 10.4 | 82.0 | 32 | |
| | 1800 | 180 | 56C | WPMDC1-18-180V-56CB | $470.25 | 5.2 | 82.0 | 32 | |
| 1 ½ | 1800 | 90 | 56C | WPMDC1.5-18-90V-56CB | $512.19 | 15.4 | 83.0 | 38 | |
| | 1800 | 180 | 56C | WPMDC1.5-18-180V-56CB | $507.81 | 7.7 | 83.0 | 38 | |
| | 1800 | 180 | 145TC | WPMDC1.5-18-180V-145TCB | $759.86 | 7.7 | 80.0 | 47 | |
| 2 | 1800 | 180 | 56C | WPMDC2-18-180V-56CB | $812.51 | 9.8 | 85.0 | 65 | |
| | 1800 | 180 | 145TC | WPMDC2-18-180V-145TCB | $1,064.57 | 9.8 | 80.0 | 65 | |

## 12 Volt and 24 Volt

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| ⅓ | 1800 | 12 | 56C | WPMDC13-18-12V-56CB | $347.99 | 26.4 | 78.0 | 19 | |
| | 1800 | 24 | 56C | WPMDC13-18-24V-56CB | $344.86 | 13.2 | 78.0 | 19 | |
| ½ | 1800 | 12 | 56C | WPMDC12-18-12V-56CB | $410.69 | 40.0 | 78.0 | 22 | |
| | 1800 | 24 | 56C | WPMDC12-18-24V-56CB | $408.15 | 20.0 | 78.0 | 22 | |
| ¾ | 1800 | 12 | 56C | WPMDC34-18-12V-56CB | $465.20 | 61.2 | 75.0 | 28 | |
| | 1800 | 24 | 56C | WPMDC34-18-24V-56CB | $462.66 | 30.6 | 75.0 | 28 | |
| 1 | 3600 | 12 | 56C | WPMDC1-36-12V-56CB | $513.48 | 82.2 | 75.0 | 26 | |
| | 1800 | 12 | 56C | WPMDC1-18-12V-56CB | $517.87 | 82.2 | 75.0 | 33 | |
| | 1800 | 24 | 56C | WPMDC1-18-24V-56CB | $515.33 | 41.1 | 75.0 | 33 | |
| 1 ½ | 1800 | 24 | 56C | WPMDC1.5-18-24V-56CB | $571.79 | 62.5 | 76.0 | 39 | |

Dimensions On Page 104-105

# WORLDWIDE FARM DUTY MOTORS
# HIGH EFFICIENCY

*TEFC Enclosure ▪ Rigid Base*
*Single-Phase ▪ 208-230 Volt*



## Product Overview

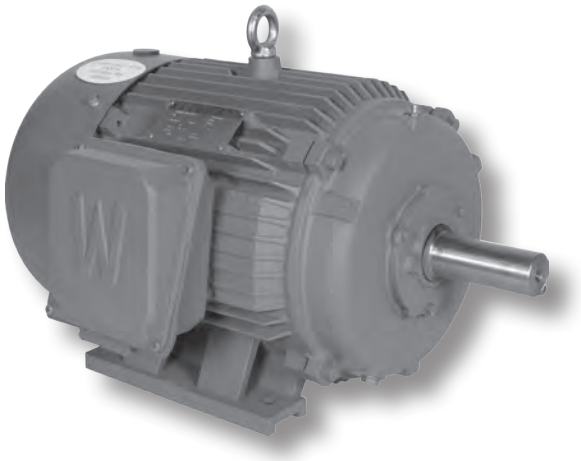
- 5 HP
- 1800 RPM
- 208-230 volt
- TEFC enclosure
- 1.15 service factor
- Class F insulation
- Rigid base
- High efficiency
- With manual overload

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 5 | 1800 | 208-230 | 184T | FARM5-18-184T | $847.87 | 20.2 | 82.5 | 112 | |

Dimensions On Page 106

# WORLDWIDE EISA-COMPLIANT MOTORS
# HIGH EFFICIENCY

## *TEFC Enclosure ▪ Rigid Base*
## *Three-Phase ▪ 208-230/460 and 460 Volt*



### Product Overview

- 1 - 500 HP
- 3600, 1800, 1200 and 900 RPM
- 208-230/460 volt (1 - 200 HP)
- 460 volt (250 - 500 HP)
- TEFC enclosure (IP55 enclosure for WWHT models, 1800 and 1200 RPM)
- 1.15 service factor
- Class F insulation
- Rigid base
- EISA-Compliant - high efficiency
- NEMA Design C - high torque (WWHT models only, 1800 and 1200 RPM)
- VFD rated 4:1 CT / 10:1 VT PWM type (WWHT models only)
- Suitable for 50 hz operation with 1.0 service factor (1 - 150 HP)

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WORLDWIDE EISA-COMPLIANT

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1800 | 208-230/460 | 143T | WWHT1-18-143T | $282.33 | 1.7 | 82.5 | 56 | C, I, V |
| | 1200 | 208-230/460 | 145T | WWHT1-12-145T | $392.74 | 1.6 | 80.5 | 56 | C, I, V |
| 1.5 | 3600 | 208-230/460 | 143T | WWHT1.5-36-143T | $383.41 | 2.0 | 85.5 | 51 | V |
| | 1800 | 208-230/460 | 145T | WWHT1.5-18-145T | $348.41 | 2.4 | 84.0 | 58 | C, I, V |
| | 1200 | 208-230/460 | 182T | WWHT1.5-12-182T | $448.71 | 2.4 | 85.5 | 85 | C, I, V |
| 2 | 3600 | 208-230/460 | 145T | WWHT2-36-145T | $416.88 | 2.7 | 86.6 | 57 | V |
| | 1800 | 208-230/460 | 145T | WWHT2-18-145T | $369.14 | 2.7 | 84.0 | 59 | C, I, V |
| | 1200 | 208-230/460 | 184T | WWHT2-12-184T | $589.34 | 3.3 | 86.7 | 84 | C, I, V |
| 3 | 3600 | 208-230/460 | 182T | WWHT3-36-182T | $503.41 | 3.9 | 87.0 | 79 | V |
| | 1800 | 208-230/460 | 182T | WWHT3-18-182T | $519.75 | 4.4 | 87.5 | 88 | C, I, V |
| | 1200 | 208-230/460 | 213T | WWHT3-12-213T | $793.40 | 4.3 | 87.8 | 145 | C, I, V |
| | 900 | 208-230/460 | 215T | WWE3-9-215T | $1,258.31 | 5.0 | 84.0 | 143 | |
| 5 | 3600 | 208-230/460 | 184T | WWHT5-36-184T | $622.82 | 6.3 | 89.0 | 95 | V |
| | 1800 | 208-230/460 | 184T | WWHT5-18-184T | $584.67 | 7.3 | 87.5 | 111 | C, I, V |
| | 1200 | 208-230/460 | 215T | WWHT5-12-215T | $984.01 | 7.2 | 87.5 | 150 | C, I, V |
| | 900 | 208-230/460 | 254T | WWE5-9-254T | $1,508.96 | 7.6 | 85.5 | 240 | |
| 7.5 | 3600 | 208-230/460 | 213T | WWHT7.5-36-213T | $940.46 | 9.2 | 89.7 | 176 | V |
| | 1800 | 208-230/460 | 213T | WWHT7.5-18-213T | $805.25 | 10.1 | 89.5 | 153 | C, I, V |
| | 1200 | 208-230/460 | 254T | WWHT7.5-12-254T | $1,293.17 | 10.3 | 89.5 | 226 | C, I, V |
| | 900 | 208-230/460 | 256T | WWE7.5-9-256T | $1,660.72 | 11.2 | 85.5 | 280 | |
| 10 | 3600 | 208-230/460 | 215T | WWHT10-36-215T | $976.24 | 12.2 | 90.3 | 180 | V |
| | 1800 | 208-230/460 | 215T | WWHT10-18-215T | $975.51 | 13.8 | 89.5 | 175 | C, I, V |
| | 1200 | 208-230/460 | 256T | WWHT10-12-256T | $1,622.88 | 14.0 | 89.7 | 280 | C, I, V |
| | 900 | 208-230/460 | 284T | WWE10-9-284T | $2,401.78 | 14.2 | 88.5 | 395 | |
| 15 | 3600 | 208-230/460 | 254T | WWHT15-36-254T | $1,581.40 | 17.5 | 91.2 | 276 | V |
| | 1800 | 208-230/460 | 254T | WWHT15-18-254T | $1,345.94 | 18.2 | 91.0 | 293 | C, I, V |
| | 1200 | 208-230/460 | 284T | WWHT15-12-284T | $2,037.81 | 20.5 | 90.2 | 392 | C, I, V |
| | 900 | 208-230/460 | 286T | WWE15-9-286T | $3,107.18 | 20.5 | 88.5 | 390 | |

C NEMA Design C - high torque
I IP55 enclosure
RB Roller bearing on drive-end for belted applications
V VFD rated 4:1 CT / 10:1 VT PWM type

Continued On Next Page
Dimensions On Page 107

# WORLDWIDE EISA-COMPLIANT MOTORS
# HIGH EFFICIENCY

## *TEFC Enclosure ▪ Rigid Base*
## *Three-Phase ▪ 208-230/460 and 460 Volt*



| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | 3600 | 208-230/460 | 256T | WWHT20-36-256T | $1,927.54 | 23.2 | 91.2 | 298 | V |
| 20 | 1800 | 208-230/460 | 256T | WWHT20-18-256T | $1,610.89 | 23.8 | 91.0 | 325 | C, I, V |
| | 1200 | 208-230/460 | 286T | WWHT20-12-286T | $2,541.70 | 26.3 | 90.2 | 385 | C, I, V |
| | 900 | 208-230/460 | 324T | WWE20-9-324T | $3,642.89 | 27.3 | 89.5 | 529 | |
| | 3600 | 208-230/460 | 284T | WWHT25-36-284T | $2,643.23 | 29.4 | 91.9 | 350 | V |
| | 3600 | 208-230/460 | 284TS | WWHT25-36-284TS | $2,378.91 | 29.4 | 91.9 | 350 | V |
| 25 | 1800 | 208-230/460 | 284T | WWHT25-18-284T | $2,101.29 | 28.2 | 92.4 | 423 | C, I, V |
| | 1200 | 208-230/460 | 324T | WWHT25-12-324T | $2,890.75 | 31.0 | 91.7 | 529 | C, I, V |
| | 900 | 208-230/460 | 326T | WWE25-9-326T | $4,091.93 | 33.3 | 89.5 | 562 | |
| | 3600 | 208-230/460 | 286T | WWHT30-36-286T | $2,703.99 | 33.9 | 91.9 | 384 | V |
| | 3600 | 208-230/460 | 286TS | WWHT30-36-286TS | $2,433.59 | 33.9 | 91.9 | 384 | V |
| 30 | 1800 | 208-230/460 | 286T | WWHT30-18-286T | $2,380.38 | 33.6 | 92.4 | 357 | C, I, V |
| | 1200 | 208-230/460 | 326T | WWHT30-12-326T | $3,393.49 | 38.0 | 91.7 | 670 | C, I, V |
| | 900 | 208-230/460 | 364T | WWE30-9-364T | $4,913.65 | 38.9 | 91.0 | 694 | |
| | 3600 | 208-230/460 | 324T | WWHT40-36-324T | $3,482.32 | 45.7 | 92.7 | 560 | V |
| | 3600 | 208-230/460 | 324TS | WWHT40-36-324TS | $3,134.09 | 45.7 | 92.7 | 560 | V |
| 40 | 1800 | 208-230/460 | 324T | WWHT40-18-324T | $2,748.57 | 47.5 | 93.0 | 592 | C, I, V |
| | 1200 | 208-230/460 | 364T | WWHT40-12-364T | $4,217.46 | 49.1 | 93.0 | 790 | C, I, V |
| | 900 | 208-230/460 | 365T | WWE40-9-365T | $6,099.72 | 52.4 | 91.0 | 754 | |
| | 3600 | 208-230/460 | 326T | WWHT50-36-326T | $4,375.23 | 57.2 | 93.2 | 650 | V |
| | 3600 | 208-230/460 | 326TS | WWHT50-36-326TS | $3,937.71 | 57.2 | 93.2 | 650 | V |
| 50 | 1800 | 208-230/460 | 326T | WWHT50-18-326T | $3,437.67 | 59.0 | 93.0 | 513 | C, I, V |
| | 1200 | 208-230/460 | 365T | WWHT50-12-365T | $5,530.17 | 60.1 | 93.0 | 820 | C, I, V |
| | 900 | 208-230/460 | 404T | WWE50-9-404T | $7,201.09 | 65.0 | 91.7 | 1033 | RB |
| | 3600 | 208-230/460 | 364T | WWHT60-36-364T | $5,999.87 | 68.3 | 93.6 | 756 | V |
| | 3600 | 208-230/460 | 364TS | WWHT60-36-364TS | $5,399.88 | 68.3 | 93.6 | 756 | V |
| 60 | 1800 | 208-230/460 | 364T | WWHT60-18-364T | $4,540.99 | 70.5 | 93.8 | 760 | C, I, V |
| | 1200 | 208-230/460 | 404T | WWHT60-12-404T | $6,114.32 | 71.5 | 93.6 | 1030 | C, I, RB, V |
| | 900 | 208-230/460 | 405T | WWE60-9-405T | $8,183.80 | 80.0 | 91.7 | 1183 | RB |
| | 3600 | 208-230/460 | 365T | WWHT75-36-365T | $7,184.84 | 85.4 | 93.6 | 804 | V |
| | 3600 | 208-230/460 | 365TS | WWHT75-36-365TS | $6,466.36 | 85.4 | 93.6 | 804 | V |
| 75 | 1800 | 208-230/460 | 365T | WWHT75-18-365T | $5,250.86 | 87.8 | 94.3 | 830 | C, I, V |
| | 1200 | 208-230/460 | 405T | WWHT75-12-405T | $6,408.16 | 86.3 | 94.1 | 1030 | C, I, RB, V |
| | 900 | 208-230/460 | 444T | WWE75-9-444T | $11,953.80 | 95.0 | 93.6 | 1378 | RB |
| | 3600 | 208-230/460 | 405TS | WWHT100-36-405TS | $7,785.40 | 111 | 94.2 | 1007 | V |
| | 1800 | 208-230/460 | 405T | WWHT100-18-405T | $6,484.81 | 115 | 94.5 | 1150 | C, I, RB, V |
| 100 | 1800 | 208-230/460 | 405T | WWHT100-18-405TBB | $6,484.81 | 115 | 94.5 | 1150 | C, I, V |
| | 1200 | 208-230/460 | 444T | WWHT100-12-444T | $9,273.43 | 121 | 94.1 | 1030 | C, I, RB, V |
| | 900 | 208-230/460 | 445T | WWE100-9-445T | $12,877.26 | 131 | 93.0 | 1473 | RB |
| | 3600 | 208-230/460 | 444TS | WWHT125-36-444TS | $10,170.03 | 137 | 95.0 | 1366 | V |
| | 1800 | 208-230/460 | 444T | WWHT125-18-444T | $8,704.28 | 144 | 94.5 | 1305 | C, I, RB, V |
| 125 | 1800 | 208-230/460 | 444T | WWHT125-18-444TBB | $8,704.28 | 144 | 94.5 | 1305 | C, I, V |
| | 1200 | 208-230/460 | 445T | WWHT125-12-445T | $10,804.93 | 148 | 94.1 | 1700 | C, I, RB, V |
| | 900 | 208-230/460 | 445/7T | WWE125-9-445/7T | $16,545.52 | 154 | 93.6 | 1798 | RB |

C NEMA Design C - high torque
I IP55 enclosure
RB Roller bearing on drive-end for belted applications
V VFD rated 4:1 CT / 10:1 VT PWM type

Continued On Next Page
Dimensions On Page 107

# WORLDWIDE EISA-COMPLIANT MOTORS
# HIGH EFFICIENCY

## *TEFC Enclosure ▪ Rigid Base*
## *Three-Phase ▪ 208-230/460 and 460 Volt*

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | 3600 | 208-230/460 | 445TS | WWHT150-36-445TS | $11,702.63 | 165 | 95.0 | 1496 | V |
| | 1800 | 208-230/460 | 445T | WWHT150-18-445T | $9,558.45 | 166 | 95.0 | 1590 | C, I, RB, V |
| 150 | 1800 | 208-230/460 | 445T | WWHT150-18-445TBB | $9,558.45 | 166 | 95.0 | 1590 | C, I, V |
| | 1200 | 208-230/460 | 445/7T | WWHT150-12-445/7T | $13,801.64 | 176 | 95.0 | 1798 | C, I, RB, V |
| | 900 | 460 | 449T | WWE150-9-449T | $18,835.80 | 186 | 94.5 | 2520 | RB |
| | 3600 | 208-230/460 | 445/7TS | WWHT200-36-445/7TS | $15,817.41 | 219 | 95.4 | 1730 | V |
| | 1800 | 208-230/460 | 445/7T | WWHT200-18-445/7T | $12,703.45 | 230 | 95.2 | 2670 | C, I, RB, V |
| 200 | 1800 | 208-230/460 | 445/7T | WWHT200-18-445/7TBB | $12,703.45 | 230 | 95.2 | 2670 | C, I, V |
| | 1200 | 460 | 449T | WWHT200-12-449T | $16,330.40 | 241 | 95.0 | 2508 | C, I, RB, V |
| | 900 | 460 | 449T | WWE200-9-449T | $21,174.00 | 250 | 94.3 | 2900 | RB |
| | 3600 | 460 | 449TS | WWE250-36-449TS | $19,435.49 | 272 | 95.0 | 2305 | |
| | 1800 | 460 | 449T | WWE250-18-449T | $16,074.08 | 282 | 95.0 | 2508 | RB |
| | 1800 | 460 | 449T | WWE250-18-449TBB | $16,074.08 | 282 | 95.0 | 2508 | |
| | 1800 | 460 | 505Z | WWE250-18-505Z | $18,321.44 | 276 | 94.8 | 2359 | RB |
| 250 | 1800 | 460 | 505UZ | WWE250-18-505UZ | $18,321.44 | 276 | 94.8 | 2359 | RB |
| | 1200 | 460 | 449T | WWE250-12-449T | $21,168.48 | 300 | 95.4 | 2750 | RB |
| | 1200 | 460 | 586/7 | WWE250-12-586/7 | $28,293.22 | 289 | 94.5 | 3696 | RB |
| | 1200 | 460 | 586/7UZ | WWE250-12-586/7UZ | $28,293.22 | 289 | 94.5 | 3696 | RB |
| | 900 | 460 | 586/7 | WWE250-9-586/7 | $35,454.71 | 309 | 94.4 | 4030 | RB |
| | 1800 | 460 | 449T | WWE300-18-449T | $21,808.72 | 334 | 95.7 | 2728 | RB |
| | 1800 | 460 | 449T | WWE300-18-449TBB | $21,808.72 | 334 | 95.7 | 2728 | |
| | 1800 | 460 | 586/7 | WWE300-18-586/7 | $26,198.25 | 323 | 95.0 | 3784 | RB |
| | 1800 | 460 | 586/7 | WWE300-18-586/7BB | $26,198.25 | 323 | 95.0 | 3784 | |
| 300 | 1800 | 460 | 586/7UZ | WWE300-18-586/7UZ | $26,198.25 | 323 | 95.0 | 3784 | RB |
| | 1200 | 460 | 449T | WWE300-12-449T | $25,161.73 | 355 | 94.5 | 2830 | RB |
| | 1200 | 460 | 586/7 | WWE300-12-586/7 | $30,572.28 | 337 | 95.2 | 4136 | RB |
| | 1200 | 460 | 586/7UZ | WWE300-12-586/7UZ | $30,572.28 | 337 | 95.2 | 4136 | RB |
| | 900 | 460 | 586/7 | WWE300-9-586/7 | $36,805.56 | 364 | 94.9 | 4440 | RB |
| | 1800 | 460 | 586/7 | WWE350-18-586/7 | $27,342.46 | 378 | 95.8 | 3960 | RB |
| | 1800 | 460 | 586/7 | WWE350-18-586/7BB | $27,342.46 | 378 | 95.8 | 3960 | |
| 350 | 1800 | 460 | 586/7UZ | WWE350-18-586/7UZ | $27,342.46 | 378 | 95.8 | 3960 | RB |
| | 1200 | 460 | 586/7 | WWE350-12-586/7 | $31,529.30 | 390 | 95.1 | 4145 | RB |
| | 1200 | 460 | 586/7 | WWE350-12-586/7BB | $31,529.30 | 390 | 95.1 | 4145 | |
| | 1200 | 460 | 586/7UZ | WWE350-12-586/7UZ | $31,529.30 | 390 | 95.1 | 4145 | RB |
| | 1800 | 460 | 586/7 | WWE400-18-586/7 | $29,389.79 | 430 | 95.3 | 4101 | RB |
| | 1800 | 460 | 586/7 | WWE400-18-586/7BB | $29,389.79 | 430 | 95.3 | 4101 | |
| 400 | 1800 | 460 | 586/7UZ | WWE400-18-586/7UZ | $29,389.79 | 430 | 95.3 | 4101 | RB |
| | 1200 | 460 | 586/7 | WWE400-12-586/7 | $34,071.48 | 448 | 95.0 | 4409 | RB |
| | 1200 | 460 | 586/7 | WWE400-12-586/7BB | $34,071.48 | 448 | 95.0 | 4409 | |
| | 1200 | 460 | 586/7UZ | WWE400-12-586/7UZ | $34,071.48 | 448 | 95.0 | 4409 | RB |
| 450 | 1800 | 460 | 586/7 | WWE450-18-586/7 | $36,359.78 | 478 | 96.1 | 4500 | RB |
| | 1200 | 460 | 586/7 | WWE450-12-586/7 | $37,413.08 | 501 | 95.8 | 4500 | RB, ▲ |
| | 1800 | 460 | 586/7 | WWE500-18-586/7 | $37,722.53 | 539 | 95.8 | 4630 | RB |
| | 1800 | 460 | 586/7 | WWE500-18-586/7BB | $37,722.53 | 539 | 95.8 | 4630 | |
| 500 | 1800 | 460 | 586/7UZ | WWE500-18-586/7UZ | $37,722.53 | 539 | 95.8 | 4630 | RB |
| | 1200 | 460 | 586/7 | WWE500-12-586/7 | $40,184.66 | 557 | 95.0 | 4740 | RB |
| | 1200 | 460 | 586/7UZ | WWE500-12-586/7UZ | $40,184.66 | 557 | 95.0 | 4740 | RB |

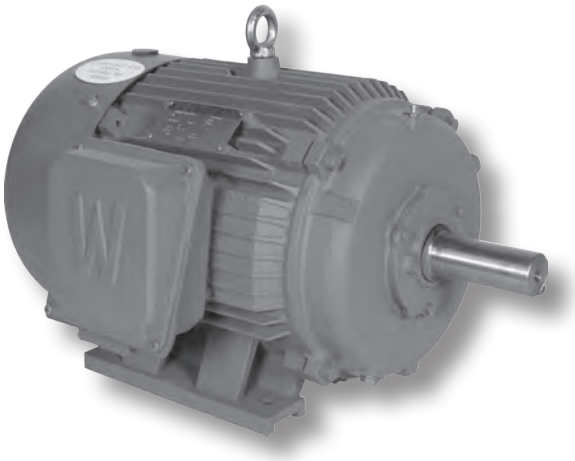
C NEMA Design C - high torque
I IP55 enclosure
RB Roller bearing on drive-end for belted applications
V VFD rated 4:1 CT / 10:1 VT PWM type
▲ 1.0 service factor

Dimensions On Page 107

# WORLDWIDE EISA-COMPLIANT MOTORS
# HIGH EFFICIENCY

*TEFC Enclosure ▪ Rigid Base ▪ Factory Short Shaft*
*Three-Phase ▪ 208-230/460 and 460 Volt*





## Product Overview

- 25 - 300 HP
- 1800 and 1200 RPM
- 208-230/460 volt (25 - 200 HP)
- 460 volt (250 - 300 HP)
- TEFC enclosure (IP55 enclosure for WWHT models)
- 1.15 service factor
- Class F insulation
- Rigid base
- Factory short shaft
- EISA-Compliant - high efficiency
- NEMA Design C - high torque (WWHT models only)
- VFD rated 4:1 CT / 10:1 VT PWM type (WWHT models only)
- Suitable for 50 hz operation with 1.0 service factor (25 - 150 HP)

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 25 | 1800 | 208-230/460 | 284TS | WWHT25-18-284TS | $2,334.77 | 28.2 | 92.4 | 423 | C, I, V |
| 30 | 1800 | 208-230/460 | 286TS | WWHT30-18-286TS | $2,644.87 | 33.6 | 92.4 | 357 | C, I, V |
| 40 | 1800 | 208-230/460 | 324TS | WWHT40-18-324TS | $3,053.97 | 47.5 | 93.0 | 592 | C, I, V |
| 50 | 1800 | 208-230/460 | 326TS | WWHT50-18-326TS | $3,819.63 | 59.0 | 93.0 | 513 | C, I, V |
| 60 | 1800 | 208-230/460 | 364TS | WWHT60-18-364TS | $5,045.54 | 70.5 | 93.8 | 760 | C, I, V |
| 75 | 1800 | 208-230/460 | 365TS | WWHT75-18-365TS | $5,834.29 | 87.8 | 94.1 | 830 | C, I, V |
| 100 | 1800 | 208-230/460 | 405TS | WWHT100-18-405TSBB | $7,205.34 | 115 | 94.5 | 1150 | C, I, V |
| 125 | 1800 | 208-230/460 | 444TS | WWHT125-18-444TSBB | $9,671.42 | 144 | 94.5 | 1305 | C, I, V |
| 150 | 1800 | 208-230/460 | 445TS | WWHT150-18-445TSBB | $10,620.50 | 166 | 95.0 | 1580 | C, I, V |
| | 1200 | 208-230/460 | 445/7TS | WWHT150-12-445/7TSBB | $15,335.16 | 176 | 95.0 | 2670 | C, I, V |
| 200 | 1800 | 208-230/460 | 445/7TS | WWHT200-18-445/7TSBB | $14,114.94 | 230 | 95.0 | 1858 | C, I, V |
| | 1200 | 460 | 449TS | WWHT200-12-449TSBB | $18,144.89 | 241 | 95.0 | 2490 | C, I, V |
| 250 | 1800 | 460 | 449TS | WWE250-18-449TSBB | $17,860.09 | 282 | 95.9 | 2508 | |
| | 1200 | 460 | 449TS | WWE250-12-449TSBB | $23,520.53 | 300 | 95.4 | 2750 | |
| 300 | 1800 | 460 | 449TS | WWE300-18-449TSBB | $24,231.91 | 334 | 95.7 | 2728 | |
| | 1200 | 460 | 449TS | WWE300-12-449TSBB | $27,957.48 | 355 | 94.5 | 2830 | |

C NEMA Design C - high torque
I IP55 enclosure
V VFD rated 4:1 CT / 10:1 VT PWM type

Dimensions On Page 107

# WORLDWIDE EISA-COMPLIANT MOTORS
# HIGH EFFICIENCY

*TEFC Enclosure ▪ Rigid Base ▪ Factory F2 Mount*
*Three-Phase ▪ 208-230/460 and 460 Volt*



## Product Overview

- 25 - 200 HP
- 1800 and 1200 RPM
- 208-230/460 volt
- TEFC enclosure (IP55 enclosure for WWHT models)
- 1.15 service factor
- Class F insulation
- Rigid base
- Factory F2 mount
- EISA-Compliant - high efficiency
- NEMA Design C - high torque (WWHT models only)
- VFD rated 4:1 CT / 10:1 VT PWM type (WWHT models only)
- Suitable for 50 hz operation with 1.0 service factor (25 - 150 HP)

WORLDWIDE EISA-COMPLIANT

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 25 | 1800 | 208-230/460 | 284T | WWHT25-18-284T-F2 | $2,334.77 | 28.2 | 92.4 | 423 | C, I, V |
| 30 | 1800 | 208-230/460 | 286T | WWHT30-18-286T-F2 | $2,644.87 | 33.6 | 92.4 | 357 | C, I, V |
| 40 | 1800 | 208-230/460 | 324T | WWHT40-18-324T-F2 | $3,053.97 | 47.5 | 93.0 | 592 | C, I, V |
| 50 | 1800 | 208-230/460 | 326T | WWHT50-18-326T-F2 | $3,819.63 | 59.0 | 93.0 | 513 | C, I, V |
| 60 | 1800 | 208-230/460 | 364T | WWHT60-18-364T-F2 | $5,045.54 | 70.5 | 93.8 | 760 | C, I, V |
| 75 | 1800 | 208-230/460 | 365T | WWHT75-18-365T-F2 | $5,834.29 | 87.8 | 94.1 | 830 | C, I, V |
| | 1200 | 208-230/460 | 405T | WWHT75-12-405T-F2 | $7,120.18 | 86.3 | 93.6 | 1030 | C, I, RB, V |
| 100 | 1800 | 208-230/460 | 405T | WWHT100-18-405T-F2 | $7,205.34 | 115 | 94.5 | 1150 | C, I, RB, V |
| 125 | 1800 | 208-230/460 | 444T | WWHT125-18-444T-F2 | $9,671.42 | 144 | 94.5 | 1305 | C, I, RB, V |
| 150 | 1800 | 208-230/460 | 445T | WWHT150-18-445T-F2 | $10,620.50 | 166 | 95.0 | 1580 | C, I, RB, V |
| | 1200 | 208-230/460 | 445/7T | WWHT150-12-445/7T-F2 | $15,335.16 | 176 | 95.0 | 2670 | C, I, RB, V |
| 200 | 1800 | 208-230/460 | 445/7T | WWHT200-18-445/7T-F2 | $14,114.94 | 230 | 95.0 | 1858 | C, I, RB, V |
| | 1200 | 460 | 449T | WWHT200-12-449T-F2 | $18,144.89 | 241 | 95.0 | 2490 | C, I, RB, V |

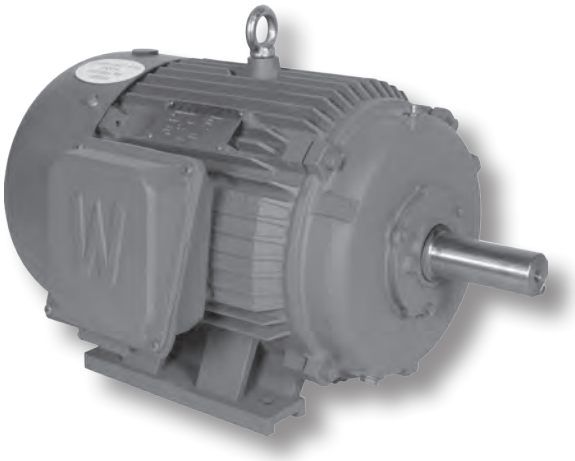
C NEMA Design C - high torque
I IP55 enclosure
RB Roller bearing on drive-end for belted applications
V VFD rated 4:1 CT / 10:1 VT PWM type

Dimensions On Page 107

# WORLDWIDE EISA-COMPLIANT MOTORS
# HIGH EFFICIENCY

*TEFC Enclosure ▪ Rigid Base ▪ Part-Winding Start (PWS)*
*Three-Phase ▪ 460 Volt*





## Product Overview

- 100 - 300 HP
- 1800 RPM
- 460 volt
- TEFC enclosure (IP55 enclosure for WWHT models)
- 1.15 service factor
- Class F insulation
- Rigid base
- Part-winding start (PWS)
- EISA-Compliant - high efficiency
- NEMA Design C - high torque (WWHT models only)
- Suitable for 50 hz operation with 1.0 service factor (100 - 150 HP)

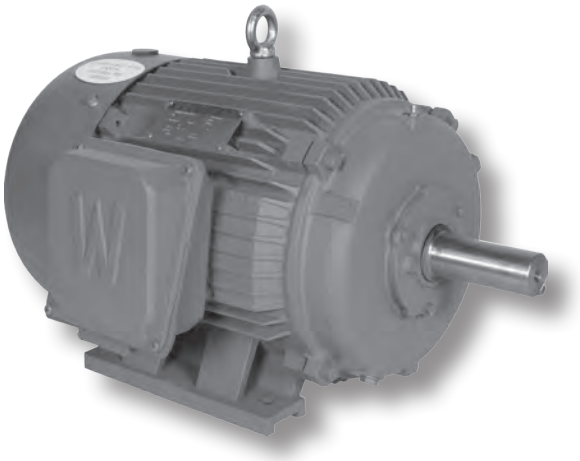
| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 100 | 1800 | 460 | 405T | WWHT100-18-460-PWS-405T | $7,369.10 | 115 | 94.5 | 1150 | C, I, RB |
| | 1800 | 460 | 405T | WWHT100-18-460-PWS-405TBB | $7,369.10 | 115 | 94.5 | 1150 | C, I |
| 125 | 1800 | 460 | 444T | WWHT125-18-460-PWS-444T | $9,891.23 | 144 | 94.5 | 1305 | C, I, RB |
| | 1800 | 460 | 444T | WWHT125-18-460-PWS-444TBB | $9,891.23 | 144 | 94.5 | 1305 | C, I |
| 150 | 1800 | 460 | 444/5T | WWHT150-18-460-PWS-444/5T | $10,861.88 | 166 | 95.0 | 1580 | C, I, RB |
| | 1800 | 460 | 444/5T | WWHT150-18-460-PWS-444/5TBB | $10,861.88 | 166 | 95.0 | 1580 | C, I |
| 200 | 1800 | 460 | 445/7T | WWHT200-18-460-PWS-445/7T | $14,435.74 | 230 | 95.0 | 1858 | C, I, RB |
| | 1800 | 460 | 445/7T | WWHT200-18-460-PWS-445/7TBB | $14,435.74 | 230 | 95.0 | 1858 | C, I |
| 250 | 1800 | 460 | 449T | WWE250-18-460-PWS-449T | $18,266.00 | 282 | 95.9 | 2508 | RB |
| 300 | 1800 | 460 | 449T | WWE300-18-460-PWS-449T | $24,782.64 | 334 | 95.7 | 2728 | RB |

C NEMA Design C - high torque
I IP55 enclosure
RB Roller bearing on drive-end for belted applications

Dimensions On Page 107

# WORLDWIDE EISA-COMPLIANT MOTORS
# HIGH EFFICIENCY

## *TEFC Enclosure ▪ Rigid Base*
## *Three-Phase ▪ 575 Volt*



### Product Overview

- 1 - 500 HP
- 3600, 1800, 1200 and 900 RPM
- 575 volt
- TEFC enclosure (IP55 enclosure for WWHT models, 1800 and 1200 RPM)
- 1.15 service factor
- Class F insulation
- Rigid base
- EISA-Compliant - high efficiency
- NEMA Design C - high torque (WWHT models only, 1800 and 1200 RPM)

C US  ISO9001 CERTIFIED

WORLDWIDE EISA-COMPLIANT

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1800 | 575 | 143T | WWHT1-18-575-143T | $313.70 | 1.3 | 83.5 | 54 | C, I |
| 1.5 | 1800 | 575 | 145T | WWHT1.5-18-575-145T | $387.12 | 1.8 | 84.5 | 57 | C, I |
| | 1200 | 575 | 182T | WWHT1.5-12-575-182T | $498.57 | 2.4 | 85.6 | 84 | C, I |
| 2 | 3600 | 575 | 145T | WWHT2-36-575-145T | $463.20 | 2.2 | 86.6 | 57 | |
| | 1800 | 575 | 145T | WWHT2-18-575-145T | $410.16 | 2.6 | 85.0 | 58 | C, I |
| | 1200 | 575 | 184T | WWHT2-12-575-184T | $654.82 | 2.6 | 86.8 | 98 | C, I |
| 3 | 3600 | 575 | 182T | WWHT3-36-575-182T | $559.34 | 3.1 | 87.0 | 79 | |
| | 1800 | 575 | 182T | WWHT3-18-575-182T | $577.50 | 3.3 | 87.5 | 88 | C, I |
| | 1200 | 575 | 213T | WWHT3-12-575-213T | $881.56 | 3.4 | 88.6 | 145 | C, I |
| 5 | 3600 | 575 | 184T | WWHT5-36-575-184T | $692.02 | 5.0 | 89.0 | 95 | |
| | 1800 | 575 | 184T | WWHT5-18-575-184T | $649.63 | 5.5 | 88.0 | 110 | C, I |
| | 1200 | 575 | 215T | WWHT5-12-575-215T | $1,093.34 | 6.1 | 88.8 | 150 | C, I |
| 7.5 | 3600 | 575 | 213T | WWHT7.5-36-575-213T | $1,044.96 | 7.4 | 89.7 | 176 | |
| | 1800 | 575 | 213T | WWHT7.5-18-575-213T | $894.72 | 7.7 | 90.1 | 152 | C, I |
| | 1200 | 575 | 254T | WWHT7.5-12-575-254T | $1,436.86 | 8.6 | 90.0 | 226 | C, I |
| 10 | 3600 | 575 | 215T | WWHT10-36-575-215T | $1,084.71 | 9.8 | 90.3 | 180 | |
| | 1800 | 575 | 215T | WWHT10-18-575-215T | $1,083.90 | 10.2 | 90.2 | 175 | C, I |
| | 1200 | 575 | 256T | WWHT10-12-575-256T | $1,803.20 | 10.7 | 89.7 | 295 | C, I |
| 15 | 3600 | 575 | 254T | WWHT15-36-575-254T | $1,757.11 | 14.0 | 91.2 | 276 | |
| | 1800 | 575 | 254T | WWHT15-18-575-254T | $1,495.49 | 14.6 | 91.5 | 293 | C, I |
| | 1200 | 575 | 284T | WWHT15-12-575-284T | $2,264.23 | 15.4 | 90.6 | 392 | C, I |
| 20 | 3600 | 575 | 256T | WWHT20-36-575-256T | $2,141.71 | 18.6 | 91.2 | 298 | |
| | 1800 | 575 | 256T | WWHT20-18-575-256T | $1,789.88 | 19.7 | 92.0 | 325 | C, I |
| | 1200 | 575 | 286T | WWHT20-12-575-286T | $2,824.11 | 21.0 | 90.5 | 385 | C, I |
| 25 | 3600 | 575 | 284TS | WWHT25-36-575-284TS | $2,643.23 | 23.5 | 91.9 | 350 | |
| | 1800 | 575 | 284T | WWHT25-18-575-284T | $2,334.77 | 24.6 | 93.0 | 423 | C, I |
| | 1200 | 575 | 324T | WWHT25-12-575-324T | $3,211.94 | 26.2 | 91.8 | 531 | C, I |
| 30 | 3600 | 575 | 286TS | WWHT30-36-575-286TS | $2,703.99 | 27.1 | 91.9 | 384 | |
| | 1800 | 575 | 286T | WWHT30-18-575-286T | $2,644.87 | 29.1 | 92.9 | 357 | C, I |
| | 1200 | 575 | 326T | WWHT30-12-575-326T | $3,770.54 | 29.9 | 91.9 | 560 | C, I |

C NEMA Design C - high torque
I IP55 enclosure

Continued On Next Page
Dimensions On Page 107

# WORLDWIDE EISA-COMPLIANT MOTORS
# HIGH EFFICIENCY

## *General Purpose ▪ TEFC Enclosure ▪ Rigid Base*
## *Three-Phase ▪ 575 Volt*



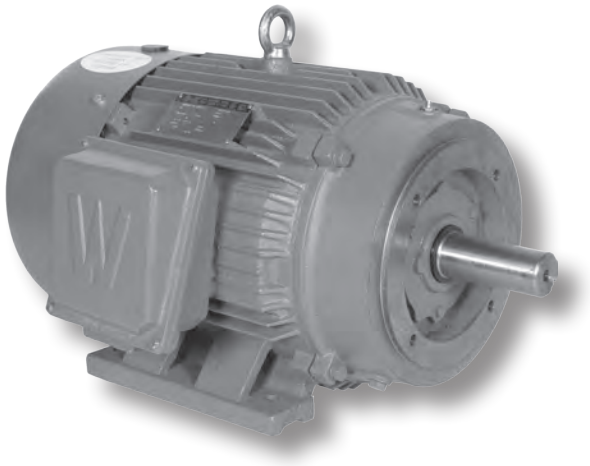
| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 40 | 3600 | 575 | 324TS | WWHT40-36-575-324TS | $3,482.32 | 36.6 | 92.7 | 560 | |
| | 1800 | 575 | 324T | WWHT40-18-575-324T | $3,053.97 | 38.8 | 93.2 | 592 | C, I |
| | 1200 | 575 | 364T | WWHT40-12-575-364T | $4,686.07 | 39.3 | 93.3 | 790 | C, I |
| 50 | 3600 | 575 | 326TS | WWHT50-36-575-326TS | $4,375.23 | 45.8 | 93.2 | 650 | |
| | 1800 | 575 | 326T | WWHT50-18-575-326T | $3,819.63 | 47.7 | 93.5 | 512 | C, I |
| | 1200 | 575 | 365T | WWHT50-12-575-365T | $6,144.63 | 48.1 | 93.3 | 820 | C, I |
| 60 | 3600 | 575 | 364TS | WWHT60-36-575-364TS | $5,999.87 | 54.6 | 93.6 | 756 | |
| | 1800 | 575 | 364T | WWHT60-18-575-364T | $5,045.54 | 56.4 | 93.8 | 760 | C, I |
| | 1200 | 575 | 404T | WWHT60-12-575-404T | $6,793.69 | 58.6 | 94.1 | 1030 | C, I, RB |
| 75 | 3600 | 575 | 365TS | WWHT75-36-575-365TS | $7,184.84 | 68.3 | 93.6 | 804 | |
| | 1800 | 575 | 365T | WWHT75-18-575-365T | $5,834.29 | 70.0 | 94.3 | 830 | C, I |
| | 1200 | 575 | 405T | WWHT75-12-575-405T | $7,120.18 | 73.6 | 94.3 | 1180 | C, I, RB |
| 100 | 3600 | 575 | 405TS | WWHT100-36-575-405TS | $8,650.44 | 88.8 | 94.2 | 1007 | |
| | 1800 | 575 | 405T | WWHT100-18-575-405T | $7,205.34 | 92.0 | 94.5 | 1150 | C, I, RB |
| | 1200 | 575 | 444T | WWHT100-12-575-444T | $10,303.81 | 88.8 | 94.2 | 1395 | C, I, RB |
| | 900 | 575 | 445T | WWE100-9-575-445T | $14,308.07 | 105 | 93.0 | 1473 | RB |
| 125 | 3600 | 575 | 444TS | WWHT125-36-575-444TS | $11,300.03 | 110 | 95.0 | 1366 | |
| | 1800 | 575 | 444T | WWHT125-18-575-444T | $9,671.42 | 115 | 94.8 | 1305 | C, I, RB |
| | 1200 | 575 | 445T | WWHT125-12-575-445T | $12,005.48 | 110 | 94.2 | 1420 | C, I, RB |
| | 900 | 575 | 445/7T | WWE125-9-575-445/7T | $18,383.91 | 123 | 93.6 | 1798 | RB |
| 150 | 3600 | 575 | 445TS | WWHT150-36-575-445TS | $13,002.92 | 132 | 95.0 | 1496 | |
| | 1800 | 575 | 445T | WWHT150-18-575-445T | $10,620.50 | 138 | 95.2 | 1590 | C, I, RB |
| | 1800 | 575 | 445T | WWHT150-18-575-445TBB | $10,620.50 | 138 | 95.2 | 1590 | C, I |
| | 1200 | 575 | 445/7T | WWHT150-12-575-445/7T | $15,335.16 | 137 | 95.0 | 1798 | C, I, RB |
| | 900 | 575 | 449T | WWE150-9-575-449T | $20,928.67 | 149 | 94.5 | 2520 | RB |
| 200 | 3600 | 575 | 445/7TS | WWHT200-36-575-445/7TS | $17,574.90 | 175 | 95.4 | 1730 | |
| | 1800 | 575 | 445/7T | WWHT200-18-575-445/7T | $14,114.94 | 184 | 95.2 | 2670 | C, I, RB |
| | 1200 | 575 | 449T | WWHT200-12-575-449T | $18,144.89 | 196 | 95.0 | 2508 | C, IRB |
| 250 | 1800 | 575 | 449T | WWE250-18-575-449T | $17,860.09 | 225 | 95.1 | 2508 | RB |
| | 1200 | 575 | 449T | WWE250-12-575-449T | $23,520.53 | 244 | 95.0 | 2750 | RB |
| | 1200 | 575 | 586/7 | WWE250-12-575-586/7 | $31,436.91 | 231 | 94.5 | 3696 | RB |
| 300 | 1800 | 575 | 449T | WWE300-18-575-449T | $24,231.91 | 268 | 94.9 | 2728 | RB |
| | 1800 | 575 | 586/7 | WWE300-18-575-586/7 | $29,109.17 | 257 | 95.0 | 3784 | RB |
| | 1200 | 575 | 449T | WWE300-12-575-449T | $27,957.48 | 285 | 94.5 | 2830 | RB |
| | 900 | 575 | 586/7 | WWE300-9-575-586/7 | $40,895.07 | 294 | 94.9 | 4440 | RB |
| 350 | 1800 | 575 | 586/7UZ | WWE350-18-575-586/7UZ | $30,380.51 | 302 | 95.8 | 3960 | RB |
| 400 | 1800 | 575 | 586/7 | WWE400-18-575-586/7 | $32,655.32 | 344 | 95.1 | 4101 | RB |
| 500 | 1200 | 575 | 586/7 | WWE500-12-575-586/7 | $44,649.62 | 451 | 95.2 | 4740 | RB |

C NEMA Design C - high torque
I IP55 enclosure
RB Roller bearing on drive-end for belted applications

Dimensions On Page 107

# WORLDWIDE EISA-COMPLIANT MOTORS
# HIGH EFFICIENCY

*TEFC Enclosure ▪ C-Face ▪ Rigid Base*
*Three-Phase ▪ 208-230/460 and 460 Volt*



## Product Overview

- 1 - 300 HP
- 3600, 1800 and 1200 RPM
- 208-230/460 volt (1 - 200 HP)
- 460 volt (250 - 300 HP)
- TEFC enclosure (IP55 enclosure for WWHT models, 1800 and 1200 RPM)
- 1.15 service factor
- Class F insulation
- C-face - rigid base
- EISA-Compliant - high efficiency
- NEMA Design C - high torque (WWHT models only, 1800 and 1200 RPM)
- VFD rated 4:1 CT / 10:1 VT PWM type (WWHT models only)
- Suitable for 50 hz operation with 1.0 service factor (1 - 150 HP)

C US  ISO9001 CERTIFIED

WORLDWIDE EISA-COMPLIANT

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1800 | 208-230/460 | 143TC | WWHT1-18-143TC | $294.09 | 1.7 | 82.5 | 56 | C, I, V |
| | 1200 | 208-230/460 | 145TC | WWHT1-12-145TC | $409.10 | 1.6 | 81.1 | 56 | C, I, V |
| 1.5 | 3600 | 208-230/460 | 143TC | WWHT1.5-36-143TC | $399.39 | 2.0 | 85.5 | 51 | V |
| | 1800 | 208-230/460 | 145TC | WWHT1.5-18-145TC | $362.93 | 2.4 | 84.0 | 58 | C, I, V |
| 2 | 3600 | 208-230/460 | 145TC | WWHT2-36-145TC | $434.25 | 2.7 | 86.6 | 57 | V |
| | 1800 | 208-230/460 | 145TC | WWHT2-18-145TC | $384.52 | 2.7 | 84.0 | 59 | C, I, V |
| 3 | 3600 | 208-230/460 | 182TC | WWHT3-36-182TC | $524.39 | 3.9 | 87.0 | 79 | V |
| | 1800 | 208-230/460 | 182TC | WWHT3-18-182TC | $541.41 | 4.4 | 87.5 | 88 | C, I, V |
| 5 | 3600 | 208-230/460 | 184TC | WWHT5-36-184TC | $648.77 | 6.3 | 89.0 | 95 | V |
| | 1800 | 208-230/460 | 184TC | WWHT5-18-184TC | $609.03 | 7.3 | 87.5 | 111 | C, I, V |
| | 1200 | 208-230/460 | 215TC | WWHT5-12-215TC | $1,025.01 | 7.2 | 88.8 | 150 | C, I, V |
| 7.5 | 3600 | 208-230/460 | 213TC | WWHT7.5-36-213TC | $979.65 | 9.2 | 89.7 | 176 | V |
| | 1800 | 208-230/460 | 213TC | WWHT7.5-18-213TC | $838.80 | 10.1 | 90.1 | 153 | C, I, V |
| | 1200 | 208-230/460 | 254TC | WWHT7.5-12-254TC | $1,347.05 | 10.3 | 90.0 | 226 | C, I, V |
| 10 | 3600 | 208-230/460 | 215TC | WWHT10-36-215TC | $1,016.92 | 12.2 | 90.3 | 180 | V |
| | 1800 | 208-230/460 | 215TC | WWHT10-18-215TC | $1,016.16 | 13.8 | 90.2 | 175 | C, I, V |
| | 1200 | 208-230/460 | 256TC | WWHT10-12-256TC | $1,690.50 | 14.0 | 89.7 | 280 | C, I, V |
| 15 | 3600 | 208-230/460 | 254TC | WWHT15-36-254TC | $1,647.29 | 17.5 | 91.2 | 276 | V |
| | 1800 | 208-230/460 | 254TC | WWHT15-18-254TC | $1,402.02 | 18.2 | 91.0 | 293 | C, I, V |
| | 1200 | 208-230/460 | 284TC | WWHT15-12-284TC | $2,122.72 | 20.5 | 90.2 | 392 | C, I, V |
| 20 | 3600 | 208-230/460 | 256TC | WWHT20-36-256TC | $2,007.85 | 23.2 | 91.2 | 298 | V |
| | 1800 | 208-230/460 | 256TC | WWHT20-18-256TC | $1,678.01 | 23.8 | 91.0 | 325 | C, I, V |
| | 1200 | 208-230/460 | 286TC | WWHT20-12-286TC | $2,647.60 | 26.3 | 90.2 | 385 | C, I, V |
| 25 | 3600 | 208-230/460 | 284TSC | WWHT25-36-284TSC | $2,478.03 | 29.4 | 91.9 | 350 | V |
| | 1800 | 208-230/460 | 284TC | WWHT25-18-284TC | $2,188.84 | 28.2 | 92.4 | 423 | C, I, V |
| | 1800 | 208-230/460 | 284TSC | WWHT25-18-284TSC | $2,434.63 | 28.2 | 92.4 | 423 | C, I, V |
| | 1200 | 208-230/460 | 324TC | WWHT25-12-324TC | $3,011.20 | 31.0 | 91.7 | 529 | C, I, V |

C NEMA Design C - high torque
I IP55 enclosure
V VFD rated 4:1 CT / 10:1 VT PWM type

Continued On Next Page
Dimensions On Page 108-109

# WORLDWIDE EISA-COMPLIANT MOTORS
# HIGH EFFICIENCY

## *TEFC Enclosure ▪ C-Face ▪ Rigid Base*
## *Three-Phase ▪ 208-230/460 and 460 Volt*



| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 30 | 3600 | 208-230/460 | 286TSC | WWHT30-36-286TSC | $2,534.99 | 33.9 | 91.9 | 384 | V |
| | 1800 | 208-230/460 | 286TC | WWHT30-18-286TC | $2,479.56 | 33.6 | 92.4 | 357 | C, I, V |
| | 1200 | 208-230/460 | 326TC | WWHT30-12-326TC | $3,534.89 | 38.0 | 91.7 | 670 | C, I, V |
| 40 | 3600 | 208-230/460 | 324TSC | WWHT40-36-324TSC | $3,264.68 | 45.7 | 92.7 | 384 | V |
| | 1800 | 208-230/460 | 324TC | WWHT40-18-324TC | $2,863.09 | 47.5 | 93.0 | 592 | C, I, V |
| | 1200 | 208-230/460 | 364TC | WWHT40-12-364TC | $4,393.19 | 49.1 | 93.0 | 790 | C, I, V |
| 50 | 3600 | 208-230/460 | 326TSC | WWHT50-36-326TSC | $4,101.78 | 57.2 | 93.2 | 650 | V |
| | 1800 | 208-230/460 | 326TC | WWHT50-18-326TC | $3,580.91 | 59.0 | 93.0 | 513 | C, I, V |
| | 1200 | 208-230/460 | 365TC | WWHT50-12-365TC | $5,760.59 | 60.1 | 93.0 | 820 | C, I, V |
| 60 | 3600 | 208-230/460 | 364TSC | WWHT60-36-364TSC | $5,624.88 | 68.3 | 93.6 | 756 | V |
| | 1800 | 208-230/460 | 364TC | WWHT60-18-364TC | $4,730.20 | 70.5 | 93.8 | 760 | C, I, V |
| | 1200 | 208-230/460 | 404TC | WWHT60-12-404TC | $6,369.08 | 71.5 | 93.6 | 1030 | C, I, V |
| 75 | 3600 | 208-230/460 | 365TSC | WWHT75-36-365TSC | $6,735.79 | 85.4 | 93.6 | 804 | V |
| | 1800 | 208-230/460 | 365TC | WWHT75-18-365TC | $5,469.65 | 87.8 | 94.1 | 830 | C, I, V |
| | 1800 | 208-230/460 | 365TSC | WWHT75-18-365TSC | $6,077.39 | 87.8 | 94.1 | 830 | C, I, V |
| | 1200 | 208-230/460 | 405TC | WWHT75-12-405TC | $6,675.17 | 86.3 | 93.6 | 1030 | C, I, V |
| 100 | 3600 | 208-230/460 | 405TSC | WWHT100-36-405TSC | $8,109.79 | 111 | 94.2 | 1007 | V |
| | 1800 | 208-230/460 | 405TC | WWHT100-18-405TC | $6,755.01 | 115 | 94.5 | 1150 | C, I, V |
| | 1800 | 208-230/460 | 405TSC | WWHT100-18-405TSC | $7,505.57 | 115 | 94.5 | 1150 | C, I, V |
| | 1200 | 208-230/460 | 444TC | WWHT100-12-444TC | $9,659.82 | 121 | 94.1 | 1030 | C, I, V |
| 125 | 3600 | 208-230/460 | 444TSC | WWHT125-36-444TSC | $10,593.78 | 137 | 95.0 | 1366 | V |
| | 1800 | 208-230/460 | 444TC | WWHT125-18-444TC | $9,066.96 | 144 | 94.5 | 1305 | C, I, V |
| | 1800 | 208-230/460 | 444TSC | WWHT125-18-444TSC | $10,074.40 | 144 | 94.5 | 1305 | C, I, V |
| | 1200 | 208-230/460 | 445TC | WWHT125-12-445TC | $11,255.14 | 148 | 94.1 | 1700 | C, I, V |
| 150 | 3600 | 208-230/460 | 445TSC | WWHT150-36-445TSC | $12,190.24 | 165 | 95.0 | 1496 | V |
| | 1800 | 208-230/460 | 445TC | WWHT150-18-445TC | $9,956.72 | 166 | 95.0 | 1580 | C, I, V |
| | 1800 | 208-230/460 | 445TSC | WWHT150-18-445TSC | $11,063.02 | 166 | 95.0 | 1580 | C, I, V |
| | 1200 | 208-230/460 | 445/7TC | WWHT150-12-445/7TC | $14,376.71 | 176 | 95.0 | 2670 | C, I, V |
| 200 | 3600 | 208-230/460 | 445/7TSC | WWHT200-36-445/7TSC | $20,245.30 | 219 | 95.4 | 1730 | V |
| | 1800 | 208-230/460 | 445/7TC | WWHT200-18-445/7TC | $13,232.76 | 230 | 95.0 | 1858 | C, I, V |
| | 1800 | 208-230/460 | 445/7TSC | WWHT200-18-445/7TSC | $14,703.06 | 230 | 95.0 | 1858 | C, I, V |
| | 1200 | 460 | 449TC | WWHT200-12-449TC | $17,010.83 | 241 | 95.0 | 2490 | C, I, V |
| 250 | 1800 | 460 | 449TC | WWE250-18-449TC | $17,255.09 | 282 | 95.9 | 2508 | |
| | 1800 | 460 | 449TSC | WWE250-18-449TSC | $19,172.32 | 282 | 95.9 | 2508 | |
| | 1200 | 460 | 449TC | WWE250-12-449TC | $24,339.10 | 300 | 95.4 | 2750 | |
| 300 | 1800 | 460 | 449TC | WWE300-18-449TC | $24,663.26 | 334 | 95.7 | 2728 | |

C NEMA Design C - high torque
I IP55 enclosure
V VFD rated 4:1 CT / 10:1 VT PWM type

Dimensions On Page 108-109

# WORLDWIDE EISA-COMPLIANT MOTORS
# HIGH EFFICIENCY

*TEFC Enclosure ▪ C-Face ▪ Rigid Base ▪ Factory F2 Mount*
*Three-Phase ▪ 208-230/460 Volt*



## Product Overview

- 20 - 200 HP
- 1800 RPM
- 208-230/460 volt
- TEFC enclosure (IP55 enclosure for WWHT models)
- 1.15 service factor
- Class F insulation
- C-face - rigid base
- Factory F2 mount
- EISA-Compliant - high efficiency
- NEMA Design C - high torque (WWHT models only)
- VFD rated 4:1 CT / 10:1 VT PWM type (WWHT models only)
- Suitable for 50 hz operation with 1.0 service factor (20 - 150 HP)



| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 20 | 1800 | 208-230/460 | 256TC | WWHT20-18-256TC-F2 | $1,864.46 | 23.8 | 91.0 | 325 | C, I, V |
| 25 | 1800 | 208-230/460 | 284TC | WWHT25-18-284TC-F2 | $2,432.04 | 28.2 | 92.4 | 423 | C, I, V |
| 30 | 1800 | 208-230/460 | 286TC | WWHT30-18-286TC-F2 | $2,755.07 | 33.6 | 92.4 | 357 | C, I, V |
| 40 | 1800 | 208-230/460 | 324TC | WWHT40-18-324TC-F2 | $3,181.21 | 47.5 | 93.0 | 592 | C, I, V |
| 50 | 1800 | 208-230/460 | 326TC | WWHT50-18-326TC-F2 | $3,978.79 | 59.0 | 93.0 | 513 | C, I, V |
| 60 | 1800 | 208-230/460 | 364TC | WWHT60-18-364TC-F2 | $5,255.78 | 70.5 | 93.8 | 760 | C, I, V |
| 75 | 1800 | 208-230/460 | 365TC | WWHT75-18-365TC-F2 | $6,077.39 | 87.8 | 94.1 | 830 | C, I, V |
| 100 | 1800 | 208-230/460 | 405TC | WWHT100-18-405TC-F2 | $7,505.57 | 115 | 94.5 | 1150 | C, I, V |
| | 1800 | 208-230/460 | 405TSC | WWHT100-18-405TSC-F2 | $8,339.52 | 115 | 94.5 | 1150 | C, I, V |
| 125 | 1800 | 208-230/460 | 444TC | WWHT125-18-444TC-F2 | $10,074.40 | 144 | 94.5 | 1305 | C, I, V |
| 150 | 1800 | 208-230/460 | 445TC | WWHT150-18-445TC-F2 | $11,063.02 | 166 | 95.0 | 1580 | C, I, V |
| | 1800 | 208-230/460 | 445TSC | WWHT150-18-445TSC-F2 | $12,292.24 | 166 | 95.0 | 1580 | C, I, V |
| 200 | 1800 | 208-230/460 | 445/7TC | WWHT200-18-445/7TC-F2 | $14,703.07 | 230 | 95.0 | 1858 | C, I, V |

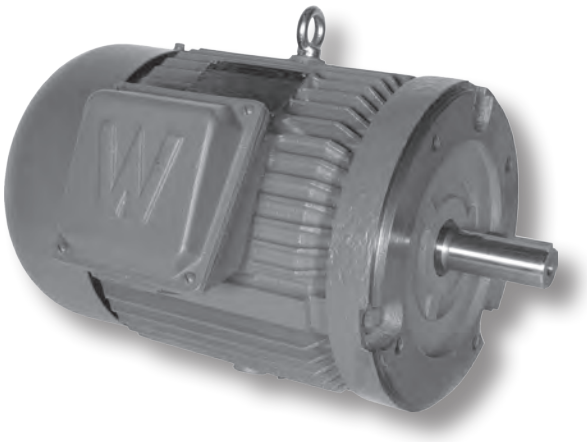
C NEMA Design C - high torque
I IP55 enclosure
V VFD rated 4:1 CT / 10:1 VT PWM type

Dimensions On Page 108-109

# WORLDWIDE EISA-COMPLIANT MOTORS
# HIGH EFFICIENCY

*TEFC Enclosure ▪ C-Face ▪ Round Body*
*Three-Phase ▪ 208-230/460 Volt*





## Product Overview

- 1 - 40 HP
- 1800 RPM
- 208-230/460 volt
- TEFC enclosure
- 1.15 service factor
- Class F insulation
- C-face - round body
- EISA-Compliant - high efficiency
- Suitable for 50 hz operation with 1.0 service factor

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1800 | 208-230/460 | 143TC | WWE1-18-143TCRD | $254.49 | 1.5 | 82.5 | 55 | |
| 1.5 | 1800 | 208-230/460 | 145TC | WWE1.5-18-145TCRD | $319.03 | 2.1 | 84.0 | 55 | |
| 2 | 1800 | 208-230/460 | 145TC | WWE2-18-145TCRD | $367.91 | 2.7 | 84.0 | 60 | |
| 3 | 1800 | 208-230/460 | 182TC | WWE3-18-182TCRD | $476.21 | 3.9 | 87.5 | 90 | |
| 5 | 1800 | 208-230/460 | 184TC | WWE5-18-184TCRD | $557.15 | 5.9 | 87.5 | 110 | |
| 7.5 | 1800 | 208-230/460 | 213TC | WWE7.5-18-213TCRD | $751.70 | 9.3 | 89.5 | 150 | |
| 10 | 1800 | 208-230/460 | 215TC | WWE10-18-215TCRD | $885.62 | 12.4 | 89.5 | 179 | |
| 15 | 1800 | 208-230/460 | 254TC | WWE15-18-254TCRD | $1,287.59 | 17.7 | 91.0 | 290 | |
| 20 | 1800 | 208-230/460 | 256TC | WWE20-18-256TCRD | $1,433.22 | 23.8 | 91.0 | 326 | |
| 25 | 1800 | 208-230/460 | 284TC | WWE25-18-284TCRD | $1,933.31 | 28.2 | 92.4 | 400 | |
| 30 | 1800 | 208-230/460 | 286TC | WWE30-18-286TCRD | $2,010.39 | 33.6 | 92.4 | 451 | |
| 40 | 1800 | 208-230/460 | 324TC | WWE40-18-324TCRD | $2,919.17 | 46.5 | 93.0 | 589 | |

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# WORLDWIDE EXPLOSION PROOF MOTORS
# PREMIUM EFFICIENCY

*TEXP Enclosure ▪ Rigid Base*

*Three-Phase ▪ 208-230/460 and 460 Volt*



## Product Overview

- 1 - 200 HP
- 3600, 1800 and 1200 RPM
- 208-230/460 volt (1 - 100 HP)
- 460 volt (125 - 200 HP)
- TEXP enclosure
- 1.15 service factor at 60 hz
- Class F insulation
- Rigid base
- Premium Efficiency
- UL Listed
- Class I, Division 1, Groups C & D; Class II, Division 1, Groups E, F & G
- CSA Certified for use in Class I, Division 2 Hazardous Locations

UL LISTED  C SA US  CE  ISO9001 CERTIFIED

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1800 | 208-230/460 | 143T | XPEWWE1-18-143T | $760.37 | 1.6 | 85.5 | 70 | |
| 1.5 | 1800 | 208-230/460 | 145T | XPEWWE1.5-18-145T | $830.28 | 2.2 | 86.5 | 71 | |
| | 1200 | 208-230/460 | 182T | XPEWWE1.5-12-182T | $917.72 | 2.2 | 87.5 | 113 | |
| 2 | 3600 | 208-230/460 | 145T | XPEWWE2-36-145T | $869.63 | 2.6 | 85.5 | 75 | |
| | 1800 | 208-230/460 | 145T | XPEWWE2-18-145T | $917.72 | 2.8 | 86.5 | 73 | |
| | 1200 | 208-230/460 | 184T | XPEWWE2-12-184T | $1,162.44 | 2.9 | 88.5 | 123 | |
| 3 | 3600 | 208-230/460 | 182T | XPEWWE3-36-182T | $1,066.30 | 3.7 | 86.5 | 115 | |
| | 1800 | 208-230/460 | 182T | XPEWWE3-18-182T | $1,114.35 | 3.8 | 89.5 | 121 | |
| | 1200 | 208-230/460 | 213T | XPEWWE3-12-213T | $1,411.51 | 4.1 | 89.5 | 219 | |
| 5 | 3600 | 208-230/460 | 184T | XPEWWE5-36-184T | $1,315.37 | 5.8 | 88.5 | 128 | |
| | 1800 | 208-230/460 | 184T | XPEWWE5-18-184T | $1,315.37 | 6.2 | 89.5 | 131 | |
| | 1200 | 208-230/460 | 215T | XPEWWE5-12-215T | $1,809.20 | 6.6 | 89.5 | 279 | |
| 7.5 | 3600 | 208-230/460 | 213T | XPEWWE7.5-36-213T | $1,560.12 | 8.6 | 89.5 | 230 | |
| | 1800 | 208-230/460 | 213T | XPEWWE7.5-18-213T | $1,726.17 | 9.2 | 91.7 | 237 | |
| | 1200 | 208-230/460 | 254T | XPEWWE7.5-12-254T | $2,020.12 | 9.5 | 91.0 | 353 | |
| 10 | 3600 | 208-230/460 | 215T | XPEWWE10-36-215T | $1,804.81 | 11.5 | 90.2 | 252 | |
| | 1800 | 208-230/460 | 215T | XPEWWE10-18-215T | $1,865.99 | 12.4 | 91.7 | 243 | |
| | 1200 | 208-230/460 | 256T | XPEWWE10-12-256T | $2,538.98 | 12.5 | 91.0 | 368 | |
| 15 | 3600 | 208-230/460 | 254T | XPEWWE15-36-254T | $2,525.86 | 16.7 | 91.0 | 385 | |
| | 1800 | 208-230/460 | 254T | XPEWWE15-18-254T | $2,525.86 | 16.9 | 92.4 | 393 | |
| | 1200 | 208-230/460 | 284T | XPEWWE15-12-284T | $3,253.67 | 18.0 | 91.7 | 468 | |
| 20 | 3600 | 208-230/460 | 256T | XPEWWE20-36-256T | $2,680.19 | 22.7 | 91.0 | 429 | |
| | 1800 | 208-230/460 | 256T | XPEWWE20-18-256T | $2,789.75 | 23.0 | 93.0 | 435 | |
| | 1200 | 208-230/460 | 286T | XPEWWE20-12-286T | $3,868.52 | 24.4 | 91.7 | 480 | |
| 25 | 3600 | 208-230/460 | 284TS | XPEWWE25-36-284TS | $3,270.15 | 27.7 | 91.7 | 520 | |
| | 1800 | 208-230/460 | 284T | XPEWWE25-18-284T | $3,434.51 | 27.9 | 93.6 | 516 | |
| | 1200 | 208-230/460 | 324T | XPEWWE25-12-324T | $4,648.12 | 30.2 | 93.0 | 630 | |



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# WORLDWIDE EXPLOSION PROOF MOTORS
# PREMIUM EFFICIENCY

## *TEXP Enclosure ▪ Rigid Base*
## *Three-Phase ▪ 208-230/460 and 460 Volt*

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | 3600 | 208-230/460 | 286TS | XPEWWE30-36-286TS | $3,783.23 | 32.8 | 91.7 | 537 | |
| 30 | 1800 | 208-230/460 | 286T | XPEWWE30-18-286T | $3,763.15 | 33.0 | 93.6 | 523 | |
| | 1200 | 208-230/460 | 326T | XPEWWE30-12-326T | $5,693.30 | 35.4 | 93.0 | 670 | |
| | 3600 | 208-230/460 | 324TS | XPEWWE40-36-324TS | $4,761.91 | 44.9 | 92.4 | 650 | |
| 40 | 1800 | 208-230/460 | 324T | XPEWWE40-18-324T | $4,848.60 | 45.5 | 94.1 | 670 | |
| | 1200 | 208-230/460 | 364T | XPEWWE40-12-364T | $7,128.51 | 47.1 | 94.1 | 910 | |
| | 3600 | 208-230/460 | 326TS | XPEWWE50-36-326TS | $6,218.94 | 56.0 | 93.0 | 695 | |
| 50 | 1800 | 208-230/460 | 326T | XPEWWE50-18-326T | $5,874.33 | 57.0 | 94.5 | 715 | |
| | 1200 | 208-230/460 | 365T | XPEWWE50-12-365T | $7,943.06 | 59.0 | 94.1 | 950 | |
| | 3600 | 208-230/460 | 364TS | XPEWWE60-36-364TS | $7,324.14 | 67.5 | 93.6 | 870 | |
| 60 | 1800 | 208-230/460 | 364T | XPEWWE60-18-364T | $7,503.47 | 68.5 | 95.0 | 920 | |
| | 1200 | 208-230/460 | 404T | XPEWWE60-12-404T | $10,029.51 | 69.5 | 94.5 | 1245 | |
| | 3600 | 208-230/460 | 365TS | XPEWWE75-36-365TS | $9,475.05 | 82.5 | 93.6 | 925 | |
| 75 | 1800 | 208-230/460 | 365T | XPEWWE75-18-365T | $8,977.43 | 83.5 | 95.4 | 985 | |
| | 1200 | 208-230/460 | 405T | XPEWWE75-12-405T | $11,458.06 | 84.5 | 94.5 | 1320 | |
| | 3600 | 208-230/460 | 405TS | XPEWWE100-36-405TS | $12,221.94 | 112 | 94.1 | 1305 | |
| 100 | 1800 | 208-230/460 | 405T | XPEWWE100-18-405TBB | $11,334.91 | 113 | 95.4 | 1350 | |
| | 1200 | 460 | 444/5T | XPEWWE100-12-444/5TBB | $16,062.82 | 115 | 95.0 | 1555 | |
| | 3600 | 460 | 444/5TS | XPEWWE125-36-444/5TS | $15,124.35 | 134 | 95.0 | 1625 | |
| 125 | 1800 | 460 | 444/5T | XPEWWE125-18-444/5TBB | $14,715.56 | 134 | 95.4 | 1555 | |
| | 1200 | 460 | 444/5T | XPEWWE125-12-444/5TBB | $20,131.31 | 138 | 95.0 | 1740 | |
| | 3600 | 460 | 444/5TS | XPEWWE150-36-444/5TS | $19,796.04 | 164 | 95.0 | 1720 | |
| 150 | 1800 | 460 | 444/5T | XPEWWE150-18-444/5TBB | $21,738.91 | 163 | 95.8 | 1740 | |
| | 1200 | 460 | 447/9T | XPEWWE150-12-447/9TBB | $27,572.10 | 167 | 95.8 | 1950 | |
| | 3600 | 460 | 444/5TS | XPEWWE200-36-444/5TS | $25,955.99 | 223 | 95.4 | 1820 | |
| 200 | 1800 | 460 | 445/7/9T | XPEWWE200-18-445/7/9TBB | $26,096.43 | 223 | 96.2 | 1990 | |
| | 1200 | 460 | 447/9T | XPEWWE200-12-447/9TBB | $39,902.26 | 233 | 95.8 | 2585 | |



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# WORLDWIDE EXPLOSION PROOF MOTORS
# PREMIUM EFFICIENCY

*TEXP Enclosure ▪ Rigid Base*

*Three-Phase ▪ 575 Volt*



## Product Overview

- 2 - 100 HP
- 1800 RPM
- 575 volt
- TEXP enclosure
- 1.15 service factor
- Class F insulation
- Rigid base
- Premium Efficiency
- UL Listed
- Class I, Division 1, Groups C & D; Class II, Division 1, Groups E, F & G
- CSA Certified for use in Class I, Division 2 Hazardous Locations

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 2 | 1800 | 575 | 145T | XPEWWE2-18-575-145T | $1,019.69 | 2.2 | 86.5 | 73 | |
| 3 | 1800 | 575 | 182T | XPEWWE3-18-575-182T | $1,238.17 | 3.0 | 89.5 | 121 | |
| 5 | 1800 | 575 | 184T | XPEWWE5-18-575-184T | $1,461.52 | 5.0 | 89.5 | 131 | |
| 7.5 | 1800 | 575 | 213T | XPEWWE7.5-18-575-213T | $1,917.97 | 7.4 | 91.7 | 237 | |
| 10 | 1800 | 575 | 215T | XPEWWE10-18-575-215T | $2,073.32 | 9.9 | 91.7 | 243 | |
| 15 | 1800 | 575 | 254T | XPEWWE15-18-575-254T | $2,806.51 | 13.5 | 92.4 | 393 | |
| 20 | 1800 | 575 | 256T | XPEWWE20-18-575-256T | $3,099.72 | 18.4 | 93.0 | 435 | |
| 25 | 1800 | 575 | 284T | XPEWWE25-18-575-284T | $3,816.12 | 22.3 | 93.6 | 516 | |
| 30 | 1800 | 575 | 286T | XPEWWE30-18-575-286T | $4,181.28 | 26.4 | 93.6 | 523 | |
| 40 | 1800 | 575 | 324T | XPEWWE40-18-575-324T | $5,387.33 | 36.4 | 94.1 | 670 | |
| 50 | 1800 | 575 | 326T | XPEWWE50-18-575-326T | $6,527.03 | 45.6 | 94.5 | 715 | |
| 60 | 1800 | 575 | 364T | XPEWWE60-18-575-364T | $8,337.19 | 54.8 | 95.0 | 920 | |
| 75 | 1800 | 575 | 365T | XPEWWE75-18-575-365T | $9,974.92 | 66.8 | 95.4 | 985 | |
| 100 | 1800 | 575 | 405T | XPEWWE100-18-575-405TBB | $12,594.34 | 90.4 | 95.4 | 1350 | |

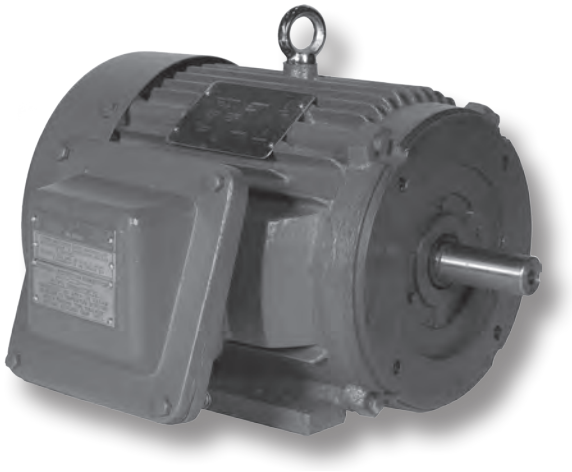


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# WORLDWIDE EXPLOSION PROOF MOTORS
# PREMIUM EFFICIENCY

*TEXP Enclosure ▪ C-Face ▪ Rigid Base*

*Three-Phase ▪ 208-230/460 and 460 Volt*



## Product Overview

- 2 - 200 HP
- 1800 RPM
- 208-230/460 volt (2 - 100 HP)
- 460 volt (125 - 200 HP)
- TEXP enclosure
- 1.15 service factor at 60 hz
- Class F insulation
- C-face - rigid base
- Premium Efficiency
- UL Listed
- Class I, Division 1, Groups C & D; Class II, Division 1, Groups E, F & G
- CSA Certified for use in Class I, Division 2 Hazardous Locations

UL LISTED  C SA US  CE  ISO9001 CERTIFIED

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 2 | 1800 | 208-230/460 | 145TC | XPEWWE2-18-145TC | $955.96 | 2.8 | 86.5 | 73 | |
| 3 | 1800 | 208-230/460 | 182TC | XPEWWE3-18-182TC | $1,160.78 | 3.8 | 89.5 | 121 | |
| 5 | 1800 | 208-230/460 | 184TC | XPEWWE5-18-184TC | $1,370.18 | 6.2 | 89.5 | 131 | |
| 7.5 | 1800 | 208-230/460 | 213TC | XPEWWE7.5-18-213TC | $1,798.09 | 9.2 | 91.7 | 237 | |
| 10 | 1800 | 208-230/460 | 215TC | XPEWWE10-18-215TC | $1,943.74 | 12.4 | 91.7 | 243 | |
| 15 | 1800 | 208-230/460 | 254TC | XPEWWE15-18-254TC | $2,631.10 | 16.9 | 92.4 | 393 | |
| 20 | 1800 | 208-230/460 | 256TC | XPEWWE20-18-256TC | $2,905.99 | 23.0 | 93.0 | 435 | |
| 25 | 1800 | 208-230/460 | 284TC | XPEWWE25-18-284TC | $3,577.61 | 27.9 | 93.6 | 516 | |
| 30 | 1800 | 208-230/460 | 286TC | XPEWWE30-18-286TC | $3,919.95 | 33.0 | 93.6 | 523 | |
| 40 | 1800 | 208-230/460 | 324TC | XPEWWE40-18-324TC | $5,050.63 | 45.5 | 94.1 | 670 | |
| 50 | 1800 | 208-230/460 | 326TC | XPEWWE50-18-326TC | $6,119.09 | 57.0 | 94.5 | 715 | |
| 60 | 1800 | 208-230/460 | 364TC | XPEWWE60-18-364TC | $7,816.11 | 68.5 | 95.0 | 920 | |
| 75 | 1800 | 208-230/460 | 365TC | XPEWWE75-18-365TC | $9,351.49 | 83.5 | 95.4 | 985 | |
| 100 | 1800 | 208-230/460 | 405TC | XPEWWE100-18-405TC | $11,807.20 | 113 | 95.4 | 1350 | |
| 125 | 1800 | 460 | 444/5TC | XPEWWE125-18-444/5TC | $15,328.71 | 134 | 95.4 | 1555 | |
| 150 | 1800 | 460 | 444/5TC | XPEWWE150-18-444/5TC | $22,644.70 | 163 | 95.8 | 1740 | |
| 200 | 1800 | 460 | 445/7/9TC | XPEWWE200-18-445/7/9TC | $27,183.78 | 223 | 96.2 | 1990 | |

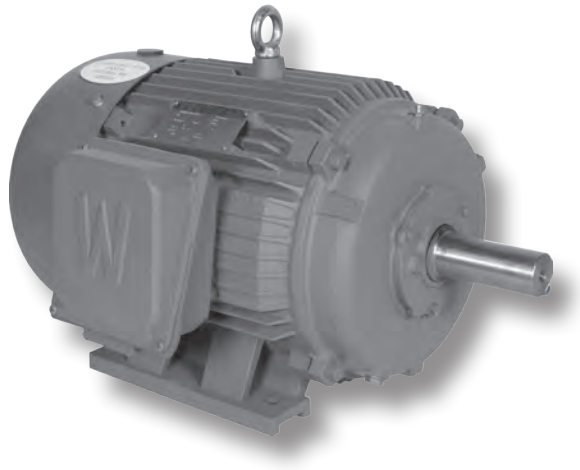


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# WORLDWIDE AGGREGATE MOTORS
# NEMA DESIGN C - HIGH TORQUE

*TEFC Enclosure ▪ Rigid Base*

*Three-Phase ▪ 208-230/460 Volt*



## Product Overview

- 1 - 200 HP
- 1800 and 1200 RPM
- 208-230/460 volt
- TEFC enclosure (IP55 enclosure)
- 1.15 service factor
- Class F insulation
- Rigid base
- EISA-Compliant - high efficiency
- NEMA Design C - high torque
- VFD rated 4:1 CT / 10:1 VT PWM type
- Suitable for 50 hz operation with 1.0 service factor (1 - 150 HP)

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1800 | 208-230/460 | 143T | WWHT1-18-143T | $282.33 | 1.7 | 82.5 | 56 | C, I, V |
| | 1200 | 208-230/460 | 145T | WWHT1-12-145T | $392.74 | 1.6 | 80.5 | 56 | C, I, V |
| 1.5 | 1800 | 208-230/460 | 145T | WWHT1.5-18-145T | $348.41 | 2.4 | 84.0 | 58 | C, I, V |
| | 1200 | 208-230/460 | 182T | WWHT1.5-12-182T | $448.71 | 2.4 | 85.5 | 85 | C, I, V |
| 2 | 1800 | 208-230/460 | 145T | WWHT2-18-145T | $369.14 | 2.7 | 84.0 | 59 | C, I, V |
| | 1200 | 208-230/460 | 184T | WWHT2-12-184T | $589.34 | 3.3 | 86.7 | 84 | C, I, V |
| 3 | 1800 | 208-230/460 | 182T | WWHT3-18-182T | $519.75 | 4.4 | 87.5 | 88 | C, I, V |
| | 1200 | 208-230/460 | 213T | WWHT3-12-213T | $793.40 | 4.3 | 87.8 | 145 | C, I, V |
| 5 | 1800 | 208-230/460 | 184T | WWHT5-18-184T | $584.67 | 7.3 | 87.5 | 111 | C, I, V |
| | 1200 | 208-230/460 | 215T | WWHT5-12-215T | $984.01 | 7.2 | 87.5 | 150 | C, I, V |
| 7.5 | 1800 | 208-230/460 | 213T | WWHT7.5-18-213T | $805.25 | 10.1 | 89.5 | 153 | C, I, V |
| | 1200 | 208-230/460 | 254T | WWHT7.5-12-254T | $1,293.17 | 10.3 | 89.5 | 226 | C, I, V |
| 10 | 1800 | 208-230/460 | 215T | WWHT10-18-215T | $975.51 | 13.8 | 89.5 | 175 | C, I, V |
| | 1200 | 208-230/460 | 256T | WWHT10-12-256T | $1,622.88 | 14.0 | 89.7 | 280 | C, I, V |
| 15 | 1800 | 208-230/460 | 254T | WWHT15-18-254T | $1,345.94 | 18.2 | 91.0 | 293 | C, I, V |
| | 1200 | 208-230/460 | 284T | WWHT15-12-284T | $2,037.81 | 20.5 | 90.2 | 392 | C, I, V |
| 20 | 1800 | 208-230/460 | 256T | WWHT20-18-256T | $1,610.89 | 23.8 | 91.0 | 325 | C, I, V |
| | 1200 | 208-230/460 | 286T | WWHT20-12-286T | $2,541.70 | 26.3 | 90.2 | 385 | C, I, V |
| 25 | 1800 | 208-230/460 | 284T | WWHT25-18-284T | $2,101.29 | 28.2 | 92.4 | 423 | C, I, V |
| | 1200 | 208-230/460 | 324T | WWHT25-12-324T | $2,890.75 | 31.0 | 91.7 | 529 | C, I, V |
| 30 | 1800 | 208-230/460 | 286T | WWHT30-18-286T | $2,380.38 | 33.6 | 92.4 | 357 | C, I, V |
| | 1200 | 208-230/460 | 326T | WWHT30-12-326T | $3,393.49 | 38.0 | 91.7 | 670 | C, I, V |
| 40 | 1800 | 208-230/460 | 324T | WWHT40-18-324T | $2,748.57 | 47.5 | 93.0 | 592 | C, I, V |
| | 1200 | 208-230/460 | 364T | WWHT40-12-364T | $4,217.46 | 49.1 | 93.0 | 790 | C, I, V |
| 50 | 1800 | 208-230/460 | 326T | WWHT50-18-326T | $3,437.67 | 59.0 | 93.0 | 513 | C, I, V |
| | 1200 | 208-230/460 | 365T | WWHT50-12-365T | $5,530.17 | 60.1 | 93.0 | 820 | C, I, V |

C NEMA Design C - high torque
I IP55 enclosure
V VFD rated 4:1 CT / 10:1 VT PWM type

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# WORLDWIDE AGGREGATE MOTORS
# NEMA DESIGN C - HIGH TORQUE

## *TEFC Enclosure ▪ Rigid Base*
## *Three-Phase ▪ 208-230/460 Volt*

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 60 | 1800 | 208-230/460 | 364T | WWHT60-18-364T | $4,540.99 | 70.5 | 93.8 | 760 | C, I, V |
| | 1200 | 208-230/460 | 404T | WWHT60-12-404T | $6,114.32 | 71.5 | 93.6 | 1030 | C, I, RB, V |
| 75 | 1800 | 208-230/460 | 365T | WWHT75-18-365T | $5,250.86 | 87.8 | 94.3 | 830 | C, I, V |
| | 1200 | 208-230/460 | 405T | WWHT75-12-405T | $6,408.16 | 86.3 | 94.1 | 1030 | C, I, RB, V |
| 100 | 1800 | 208-230/460 | 405T | WWHT100-18-405T | $6,484.81 | 115 | 94.5 | 1150 | C, I, RB, V |
| | 1800 | 208-230/460 | 405T | WWHT100-18-405TBB | $6,484.81 | 115 | 94.5 | 1150 | C, I, V |
| | 1200 | 208-230/460 | 444T | WWHT100-12-444T | $9,273.43 | 121 | 94.1 | 1030 | C, I, RB, V |
| 125 | 1800 | 208-230/460 | 444T | WWHT125-18-444T | $8,704.28 | 144 | 94.5 | 1305 | C, I, RB, V |
| | 1800 | 208-230/460 | 444T | WWHT125-18-444TBB | $8,704.28 | 144 | 94.5 | 1305 | C, I, V |
| | 1200 | 208-230/460 | 445T | WWHT125-12-445T | $10,804.93 | 148 | 94.1 | 1700 | C, I, RB, V |
| 150 | 1800 | 208-230/460 | 445T | WWHT150-18-445T | $9,558.45 | 166 | 95.0 | 1590 | C, I, RB, V |
| | 1800 | 208-230/460 | 445T | WWHT150-18-445TBB | $9,558.45 | 166 | 95.0 | 1590 | C, I, V |
| | 1200 | 208-230/460 | 445/7T | WWHT150-12-445/7T | $13,801.64 | 176 | 95.0 | 1798 | C, I, RB, V |
| 200 | 1800 | 208-230/460 | 445/7T | WWHT200-18-445/7T | $12,703.45 | 230 | 95.2 | 2670 | C, I, RB, V |
| | 1800 | 208-230/460 | 445/7T | WWHT200-18-445/7TBB | $12,703.45 | 230 | 95.2 | 2670 | C, I, V |
| | 1200 | 460 | 449T | WWHT200-12-449T | $16,330.40 | 241 | 95.0 | 2508 | C, I, RB, V |

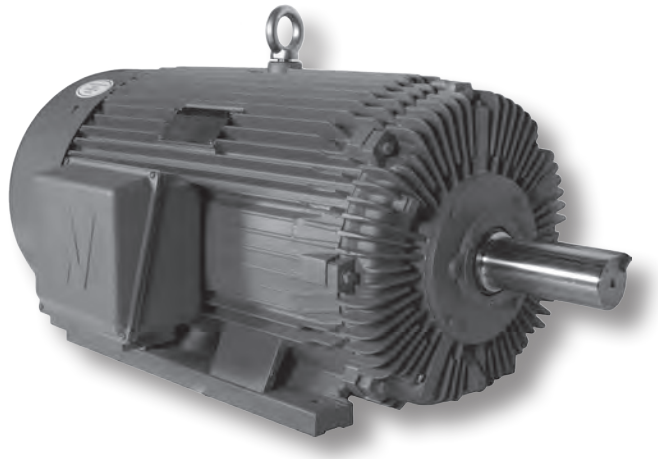


C NEMA Design C - high torque
I IP55 enclosure
RB Roller bearing on drive-end for belted applications
V VFD rated 4:1 CT / 10:1 VT PWM type

Dimensions On Page 113

# WORLDWIDE AGGREGATE MOTORS
# ADVANCED DESIGN ROCK CRUSHER

## *TEFC Enclosure ▪ Rigid Base*
## *Three-Phase ▪ 208-230/460 and 460 Volt*



### Product Overview

- 100 - 500 HP
- 1800 and 1200 RPM
- 208-230/460 volt (100 - 200 HP)
- 460 volt (250 - 500 HP)
- TEFC enclosure (IP55 enclosure for WWHT models)
- 1.15 service factor
- Class F insulation
- Rigid base
- EISA-Compliant - high efficiency
- NEMA Design C - high torque (WWHT models only)
- VFD rated 4:1 CT / 10:1 VT PWM type (WWHT models only)
- Suitable for 50 hz operation with 1.0 service factor (100 - 150 HP)

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 100 | 1800 | 208-230/460 | 405T | WWHT100-18-405T | $6,484.81 | 115 | 94.5 | 1150 | C, I, RB, V |
| | 1200 | 208-230/460 | 444T | WWHT100-12-444T | $9,273.43 | 121 | 94.1 | 1030 | C, I, RB, V |
| 125 | 1800 | 208-230/460 | 444T | WWHT125-18-444T | $8,704.28 | 144 | 94.5 | 1305 | C, I, RB, V |
| | 1200 | 208-230/460 | 445T | WWHT125-12-445T | $10,804.93 | 148 | 94.1 | 1700 | C, I, RB, V |
| 150 | 1800 | 208-230/460 | 445T | WWHT150-18-445T | $9,558.45 | 166 | 95.0 | 1590 | C, I, RB, V |
| | 1200 | 208-230/460 | 445/7T | WWHT150-12-445/7T | $13,801.64 | 176 | 95.0 | 1798 | C, I, RB, V |
| 200 | 1800 | 208-230/460 | 445/7T | WWHT200-18-445/7T | $12,703.45 | 230 | 95.2 | 2670 | C, I, RB, V |
| | 1200 | 460 | 449T | WWHT200-12-449T | $16,330.40 | 241 | 95.0 | 2508 | C, I, RB, V |
| 250 | 1800 | 460 | 449T | WWE250-18-449T | $16,074.08 | 282 | 95.0 | 2508 | RB |
| | 1800 | 460 | 505Z | WWE250-18-505Z | $18,321.44 | 276 | 94.8 | 2359 | RB |
| | 1800 | 460 | 505UZ | WWE250-18-505UZ | $18,321.44 | 276 | 94.8 | 2359 | RB |
| | 1200 | 460 | 449T | WWE250-12-449T | $21,168.48 | 300 | 95.4 | 2750 | RB |
| | 1200 | 460 | 586/7 | WWE250-12-586/7 | $28,293.22 | 289 | 94.5 | 3696 | RB |
| | 1200 | 460 | 586/7UZ | WWE250-12-586/7UZ | $28,293.22 | 289 | 94.5 | 3696 | RB |
| 300 | 1800 | 460 | 449T | WWE300-18-449T | $21,808.72 | 334 | 95.7 | 2728 | RB |
| | 1800 | 460 | 586/7 | WWE300-18-586/7 | $26,198.25 | 323 | 95.0 | 3784 | RB |
| | 1800 | 460 | 586/7UZ | WWE300-18-586/7UZ | $26,198.25 | 323 | 95.0 | 3784 | RB |
| | 1200 | 460 | 449T | WWE300-12-449T | $25,161.73 | 355 | 94.5 | 2830 | RB |
| | 1200 | 460 | 586/7 | WWE300-12-586/7 | $30,572.28 | 337 | 95.2 | 4136 | RB |
| | 1200 | 460 | 586/7UZ | WWE300-12-586/7UZ | $30,572.28 | 337 | 95.2 | 4136 | RB |
| 350 | 1800 | 460 | 586/7 | WWE350-18-586/7 | $27,342.46 | 378 | 95.8 | 3960 | RB |
| | 1800 | 460 | 586/7UZ | WWE350-18-586/7UZ | $27,342.46 | 378 | 95.8 | 3960 | RB |
| | 1200 | 460 | 586/7 | WWE350-12-586/7 | $31,529.30 | 390 | 95.1 | 4145 | RB |
| | 1200 | 460 | 586/7UZ | WWE350-12-586/7UZ | $31,529.30 | 390 | 95.1 | 4145 | RB |
| 400 | 1800 | 460 | 586/7 | WWE400-18-586/7 | $29,389.79 | 430 | 95.3 | 4101 | RB |
| | 1800 | 460 | 586/7UZ | WWE400-18-586/7UZ | $29,389.79 | 430 | 95.3 | 4101 | RB |
| | 1200 | 460 | 586/7 | WWE400-12-586/7 | $34,071.48 | 448 | 95.0 | 4409 | RB |
| | 1200 | 460 | 586/7UZ | WWE400-12-586/7UZ | $34,071.48 | 448 | 95.0 | 4409 | RB |
| 450 | 1800 | 460 | 586/7 | WWE450-18-586/7 | $36,359.78 | 478 | 96.1 | 4500 | RB |
| | 1200 | 460 | 586/7 | WWE450-12-586/7 | $37,413.08 | 501 | 95.8 | 4500 | RB, ▲ |
| 500 | 1800 | 460 | 586/7 | WWE500-18-586/7 | $37,722.53 | 539 | 95.8 | 4630 | RB |
| | 1800 | 460 | 586/7UZ | WWE500-18-586/7UZ | $37,722.53 | 539 | 95.8 | 4630 | RB |
| | 1200 | 460 | 586/7 | WWE500-12-586/7 | $40,184.66 | 557 | 95.0 | 4740 | RB |
| | 1200 | 460 | 586/7UZ | WWE500-12-586/7UZ | $40,184.66 | 557 | 95.0 | 4740 | RB |

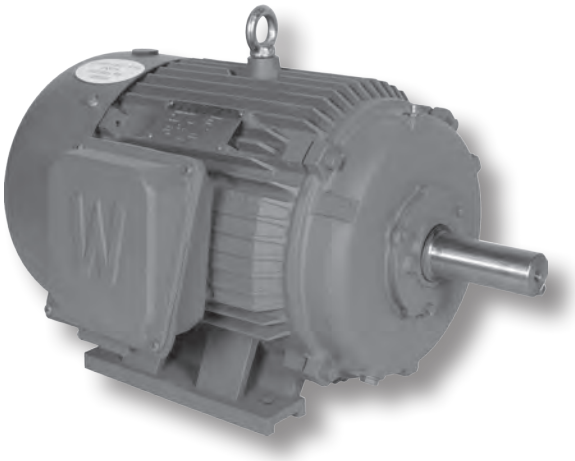
C NEMA Design C - high torque
I IP55 enclosure
RB Roller bearing on drive-end for belted applications
V VFD rated 4:1 CT / 10:1 VT PWM type
▲ 1.0 service factor

Dimensions On Page 114

# WORLDWIDE AGGREGATE MOTORS
# SHAKER SCREEN - DESIGN D - HIGH SLIP

*TEFC Enclosure ▪ Rigid Base*

*Three-Phase ▪ 208-230/460 Volt*



## Product Overview

- 30 - 50 HP
- 1200 RPM
- 208-230/460 Volt
- TEFC enclosure
- 1.15 service factor
- Class F insulation
- Rigid base
- EISA-Compliant - high efficiency
- High intensity - high torque
- NEMA Design D - high slip for high inertia belted loads
- Suitable for 50 hz operation with 1.0 service factor

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 30 | 1200 | 208-230/460 | 326T | SS30-12-326T | $3,393.49 | 38.0 | 88.5 | 610 | |
| 40 | 1200 | 208-230/460 | 365T | SS40-12-365T | $4,217.46 | 49.5 | 89.0 | 650 | |
| 50 | 1200 | 208-230/460 | 404T | SS50-12-404T | $5,530.17 | 60.0 | 89.0 | 1035 | RB |

WORLDWIDE AGGREGATE

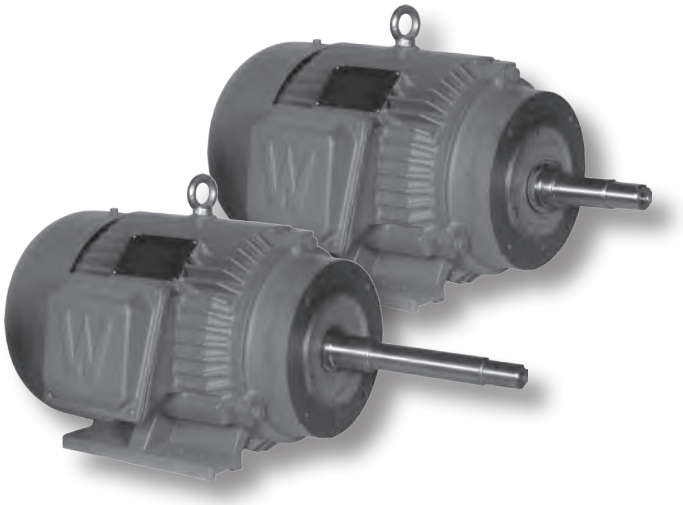
RB Roller bearing on drive-end for belted applications

Dimensions On Page 115

# WORLDWIDE CLOSE COUPLED PUMP MOTORS
# EISA-COMPLIANT HIGH EFFICIENCY

*TEFC Enclosure ▪ C-Face ▪ Rigid Base*

*Three-Phase ▪ 208-230/460 Volt*



## Product Overview

- 1 - 50 HP
- 3600 and 1800 RPM
- 208-230/460 volt
- TEFC enclosure
- 1.15 service factor
- Class F insulation
- C-face - rigid base
- EISA-Compliant - high efficiency
- Suitable for 50 hz operation with 1.0 service factor

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1800 | 208-230/460 | 143JM | WWE1-18-143JM | $355.43 | 1.5 | 82.5 | 55 | |
| | 1800 | 208-230/460 | 143JP | WWE1-18-143JP | $355.43 | 1.5 | 82.5 | 55 | |
| 1.5 | 3600 | 208-230/460 | 143JM | WWE1.5-36-143JM | $386.17 | 1.9 | 82.5 | 50 | |
| | 3600 | 208-230/460 | 143JP | WWE1.5-36-143JP | $386.17 | 1.9 | 82.5 | 50 | |
| | 1800 | 208-230/460 | 145JM | WWE1.5-18-145JM | $398.42 | 2.1 | 84.0 | 55 | |
| | 1800 | 208-230/460 | 145JP | WWE1.5-18-145JP | $398.42 | 2.1 | 84.0 | 55 | |
| 2 | 3600 | 208-230/460 | 145JM | WWE2-36-145JM | $415.59 | 2.5 | 84.0 | 50 | |
| | 3600 | 208-230/460 | 145JP | WWE2-36-145JP | $415.59 | 2.5 | 84.0 | 50 | |
| | 1800 | 208-230/460 | 145JM | WWE2-18-145JM | $414.27 | 2.7 | 84.0 | 60 | |
| | 1800 | 208-230/460 | 145JP | WWE2-18-145JP | $414.27 | 2.7 | 84.0 | 60 | |
| 3 | 3600 | 208-230/460 | 145JM | WWE3-36-145JM | $502.96 | 3.6 | 85.5 | 60 | |
| | 3600 | 208-230/460 | 145JP | WWE3-36-145JP | $502.96 | 3.6 | 85.5 | 60 | |
| | 3600 | 208-230/460 | 182JM | WWE3-36-182JM | $502.96 | 3.6 | 85.5 | 92 | |
| | 3600 | 208-230/460 | 182JP | WWE3-36-182JP | $502.96 | 3.6 | 85.5 | 92 | |
| | 1800 | 208-230/460 | 182JM | WWE3-18-182JM | $528.09 | 3.9 | 87.5 | 90 | |
| | 1800 | 208-230/460 | 182JP | WWE3-18-182JP | $528.09 | 3.9 | 87.5 | 90 | |
| 5 | 3600 | 208-230/460 | 184JM | WWE5-36-184JM | $640.80 | 5.7 | 87.5 | 101 | |
| | 3600 | 208-230/460 | 184JP | WWE5-36-184JP | $640.80 | 5.7 | 87.5 | 101 | |
| | 1800 | 208-230/460 | 184JM | WWE5-18-184JM | $662.16 | 5.9 | 87.5 | 110 | |
| | 1800 | 208-230/460 | 184JP | WWE5-18-184JP | $662.16 | 5.9 | 87.5 | 110 | |
| 7.5 | 3600 | 208-230/460 | 184JM | WWE7.5-36-184JM | $862.32 | 8.4 | 88.5 | 112 | |
| | 3600 | 208-230/460 | 184JP | WWE7.5-36-184JP | $862.32 | 8.4 | 88.5 | 112 | |
| | 3600 | 208-230/460 | 213JM | WWE7.5-36-213JM | $862.32 | 8.4 | 88.5 | 148 | |
| | 3600 | 208-230/460 | 213JP | WWE7.5-36-213JP | $862.32 | 8.4 | 88.5 | 148 | |
| | 1800 | 208-230/460 | 213JM | WWE7.5-18-213JM | $899.32 | 9.3 | 89.5 | 150 | |
| | 1800 | 208-230/460 | 213JP | WWE7.5-18-213JP | $899.32 | 9.3 | 89.5 | 150 | |



Continued On Next Page
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# WORLDWIDE CLOSE COUPLED PUMP MOTORS
# EISA-COMPLIANT HIGH EFFICIENCY

*TEFC Enclosure ▪ C-Face ▪ Rigid Base*

*Three-Phase ▪ 208-230/460 Volt*

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 10 | 3600 | 208-230/460 | 215JM | WWE10-36-215JM | $972.28 | 11.2 | 89.5 | 181 | |
| | 3600 | 208-230/460 | 215JP | WWE10-36-215JP | $972.28 | 11.2 | 89.5 | 181 | |
| | 1800 | 208-230/460 | 215JM | WWE10-18-215JM | $1,011.86 | 12.4 | 89.5 | 179 | |
| | 1800 | 208-230/460 | 215JP | WWE10-18-215JP | $1,011.86 | 12.4 | 89.5 | 179 | |
| 15 | 3600 | 208-230/460 | 215JM | WWE15-36-215JM | $1,499.17 | 16.7 | 90.2 | 186 | |
| | 3600 | 208-230/460 | 215JP | WWE15-36-215JP | $1,499.17 | 16.7 | 90.2 | 186 | |
| | 3600 | 208-230/460 | 254JM | WWE15-36-254JM | $1,499.17 | 16.6 | 90.2 | 260 | |
| | 3600 | 208-230/460 | 254JP | WWE15-36-254JP | $1,499.17 | 16.6 | 90.2 | 260 | |
| | 1800 | 208-230/460 | 254JM | WWE15-18-254JM | $1,565.80 | 17.7 | 91.0 | 290 | |
| | 1800 | 208-230/460 | 254JP | WWE15-18-254JP | $1,565.80 | 17.7 | 91.0 | 290 | |
| 20 | 3600 | 208-230/460 | 256JM | WWE20-36-256JM | $1,684.44 | 22.5 | 90.2 | 331 | |
| | 3600 | 208-230/460 | 256JP | WWE20-36-256JP | $1,684.44 | 22.5 | 90.2 | 331 | |
| | 1800 | 208-230/460 | 256JM | WWE20-18-256JM | $1,690.19 | 23.8 | 91.0 | 326 | |
| | 1800 | 208-230/460 | 256JP | WWE20-18-256JP | $1,690.19 | 23.8 | 91.0 | 326 | |
| 25 | 3600 | 208-230/460 | 256JM | WWE25-36-256JM | $2,131.10 | 28.0 | 91.0 | 335 | |
| | 3600 | 208-230/460 | 256JP | WWE25-36-256JP | $2,131.10 | 28.0 | 91.0 | 335 | |
| | 3600 | 208-230/460 | 284JM | WWE25-36-284JM | $2,131.10 | 28.0 | 91.0 | 381 | |
| | 3600 | 208-230/460 | 284JP | WWE25-36-284JP | $2,131.10 | 28.0 | 91.0 | 381 | |
| | 1800 | 208-230/460 | 284JM | WWE25-18-284JM | $2,047.91 | 28.2 | 92.4 | 400 | |
| | 1800 | 208-230/460 | 284JP | WWE25-18-284JP | $2,047.91 | 28.2 | 92.4 | 400 | |
| 30 | 3600 | 208-230/460 | 286JM | WWE30-36-286JM | $2,234.00 | 32.9 | 91.0 | 523 | |
| | 3600 | 208-230/460 | 286JP | WWE30-36-286JP | $2,234.00 | 32.9 | 91.0 | 523 | |
| | 1800 | 208-230/460 | 286JM | WWE30-18-286JM | $2,310.02 | 33.6 | 92.4 | 451 | |
| | 1800 | 208-230/460 | 286JP | WWE30-18-286JP | $2,310.02 | 33.6 | 92.4 | 451 | |
| 40 | 3600 | 208-230/460 | 286JM | WWE40-36-286JM | $2,968.90 | 45.0 | 91.7 | 525 | |
| | 3600 | 208-230/460 | 286JP | WWE40-36-286JP | $2,968.90 | 45.0 | 91.7 | 525 | |
| | 3600 | 208-230/460 | 324JM | WWE40-36-324JM | $2,968.90 | 46.3 | 91.7 | 533 | |
| | 3600 | 208-230/460 | 324JP | WWE40-36-324JP | $2,968.90 | 46.3 | 91.7 | 533 | |
| | 1800 | 208-230/460 | 324JM | WWE40-18-324JM | $3,012.92 | 46.5 | 93.0 | 589 | |
| | 1800 | 208-230/460 | 324JP | WWE40-18-324JP | $3,012.92 | 46.5 | 93.0 | 589 | |
| 50 | 3600 | 208-230/460 | 326JM | WWE50-36-326JM | $3,710.99 | 56.7 | 92.4 | 620 | |
| | 3600 | 208-230/460 | 326JP | WWE50-36-326JP | $3,710.99 | 56.7 | 92.4 | 620 | |
| | 1800 | 208-230/460 | 326JM | WWE50-18-326JM | $3,745.23 | 57.3 | 93.0 | 640 | |
| | 1800 | 208-230/460 | 326JP | WWE50-18-326JP | $3,745.23 | 57.3 | 93.0 | 640 | |



Dimensions On Page 116-117

# WORLDWIDE OIL WELL PUMP MOTORS
# EISA-COMPLIANT HIGH EFFICIENCY

*TEFC Enclosure ▪ Rigid Base*

*Three-Phase ▪ 230/460/796 Volt*



## Product Overview

- 3 - 100 HP
- 1200 RPM
- 230/460/796 volt
- TEFC enclosure
- 1.15 service factor
- Class F insulation
- Rigid base
- EISA-Compliant - high efficiency
- NEMA Design D - high slip
- Suitable for 50 hz operation with 1.0 service factor

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 3 | 1200 | 230/460/796 | 213T | WO3-12-213T | $801.21 | 4.4 | 79.0 | 155 | |
| 5 | 1200 | 230/460/796 | 215T | WO5-12-215T | $948.79 | 7.3 | 82.0 | 175 | |
| 7.5 | 1200 | 230/460/796 | 254T | WO7.5-12-254T | $1,187.80 | 10.0 | 86.5 | 300 | |
| 10 | 1200 | 230/460/796 | 256T | WO10-12-256T | $1,616.49 | 14.0 | 87.0 | 340 | |
| 15 | 1200 | 230/460/796 | 284T | WO15-12-284T | $2,031.16 | 19.0 | 87.0 | 410 | |
| 20 | 1200 | 230/460/796 | 286T | WO20-12-286T | $2,494.13 | 25.5 | 87.5 | 440 | |
| 25 | 1200 | 230/460/796 | 324T | WO25-12-324T | $2,916.48 | 31.5 | 88.1 | 580 | |
| 30 | 1200 | 230/460/796 | 326T | WO30-12-326T | $3,456.52 | 38.0 | 88.5 | 610 | |
| 40 | 1200 | 230/460/796 | 365T | WO40-12-365T | $4,673.12 | 49.5 | 89.0 | 650 | |
| 50 | 1200 | 230/460/796 | 404T | WO50-12-404T | $5,243.01 | 60.0 | 89.0 | 1035 | |
| 60 | 1200 | 230/460/796 | 405T | WO60-12-405T | $5,571.51 | 74.0 | 90.3 | 1200 | |
| 75 | 1200 | 230/460/796 | 444T | WO75-12-444T | $8,058.96 | 88.0 | 87.5 | 1378 | |
| 100 | 1200 | 230/460/796 | 445T | WO100-12-445T | $9,111.59 | 120 | 87.5 | 1798 | |



Dimensions On Page 118

# WORLDWIDE VERTICAL HOLLOW SHAFT MOTORS

## *WPI Enclosure ▪ Vertical P Base*

## *Three-Phase ▪ 230/460, 230 and 460 Volt*



### Product Overview

- 25 - 250 HP
- 1800 RPM
- 230/460 volt (25 - 40 HP)
- 230 volt (50 - 75 HP)
- 460 volt PWS (50 - 250 HP)
- WPI enclosure with rodent screen protection
- 1.15 service factor
- Class F insulation
- Vertical P base
- High Efficiency
- 120 volt space heaters
- Includes non-reverse ratchet

C SA US

| HP | RPM | Voltage | Frame | Base Diameter | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| 25 | 1800 | 230/460 | 284TPA | 12 | VHS25-18-2/4-284TPA | $3,105.59 | 31.0 | 88.0 | 510 | |
| | 1800 | 230/460 | 284TPH | 16.5 | VHS25-18-2/4-284TPH | $3,105.59 | 31.0 | 88.0 | 510 | |
| 30 | 1800 | 230/460 | 286TPA | 12 | VHS30-18-2/4-286TPA | $3,289.25 | 37.0 | 88.5 | 520 | |
| | 1800 | 230/460 | 286TPH | 16.5 | VHS30-18-2/4-286TPH | $3,289.25 | 37.0 | 88.5 | 520 | |
| 40 | 1800 | 230/460 | 324TP | 16.5 | VHS40-18-2/4-324TP | $3,678.85 | 50.0 | 89.5 | 700 | |
| | 1800 | 230/460 | 324TPH | 12 | VHS40-18-2/4-324TPH | $3,678.85 | 50.0 | 89.5 | 700 | |
| 50 | 1800 | 230 | 326TP | 16.5 | VHS50-18-230-326TP | $4,146.35 | 124 | 90.0 | 667 | |
| | 1800 | 460 | 326TP | 16.5 | VHS50-18-460-326TP | $4,146.35 | 62.0 | 90.0 | 745 | |
| | 1800 | 460 | 326TPH | 12 | VHS50-18-460-326TPH | $4,146.35 | 62.0 | 90.0 | 745 | |
| 60 | 1800 | 230 | 364TP | 16.5 | VHSN60-18-230-364TP | $4,502.55 | 148 | 91.0 | 720 | |
| | 1800 | 460 | 364TP | 16.5 | VHSN60-18-460-364TP | $4,502.55 | 74.0 | 91.0 | 840 | |
| 75 | 1800 | 230 | 365TP | 16.5 | VHS75-18-230-365TP | $6,495.02 | 178 | 91.5 | 995 | |
| | 1800 | 460 | 365TP | 16.5 | VHS75-18-460-365TP | $6,495.02 | 89.0 | 91.5 | 1200 | |
| 100 | 1800 | 460 | 404TP | 16.5 | VHS100-18-460-404TP | $7,101.67 | 120 | 92.0 | 1280 | |
| 125 | 1800 | 460 | 405TP | 16.5 | VHS125-18-460-405TP | $7,658.23 | 144 | 92.5 | 1330 | |
| 150 | 1800 | 460 | 444TP | 16.5 | VHS150-18-460-444TP | $9,105.28 | 174 | 92.5 | 1600 | |
| | 1800 | 460 | 444TPA | 20 | VHS150-18-460-444TPA | $9,105.28 | 174 | 92.5 | 1600 | |
| 200 | 1800 | 460 | 445TP | 16.5 | VHS200-18-460-445TP | $13,663.48 | 234 | 92.5 | 1720 | |
| | 1800 | 460 | 445TPA | 20 | VHS200-18-460-445TPA | $13,663.48 | 234 | 92.5 | 1720 | |
| 250 | 1800 | 460 | 445TPA | 20 | VHS250-18-460-445TPA | $15,466.73 | 287 | 93.0 | 2000 | |



See page 80 for required VHS couplings.

Dimensions On Page 119

# WORLDWIDE VERTICAL HOLLOW SHAFT MOTORS

## *WPI Enclosure ▪ Vertical P Base*

## *Three-Phase ▪ 575 Volt*



### Product Overview

- 25 - 250 HP
- 1800 RPM
- 575 volt
- WPI enclosure with rodent screen protection
- 1.15 service factor
- Class F insulation
- Vertical P base
- High Efficiency
- 120 volt space heaters
- Includes non-reverse ratchet

C US

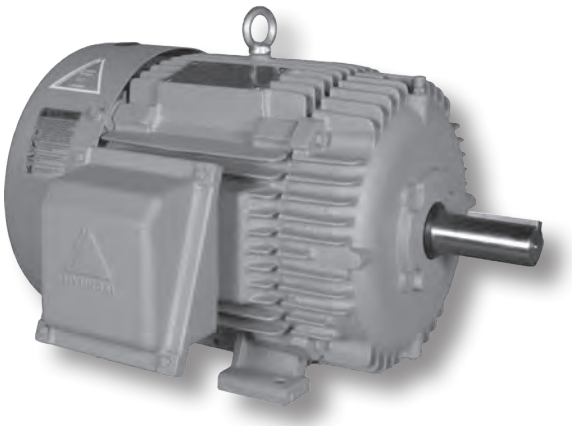
| HP | RPM | Voltage | Frame | Base Diameter | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| 25 | 1800 | 575 | 284TPA | 12 | VHS25-18-575-284TPA | $3,450.66 | 24.5 | 88.0 | 495 | |
| | 1800 | 575 | 284TPH | 16.5 | VHS25-18-575-284TPH | $3,450.66 | 24.5 | 88.0 | 515 | |
| 30 | 1800 | 575 | 286TPA | 12 | VHS30-18-575-286TPA | $3,654.72 | 28.8 | 88.5 | 505 | |
| | 1800 | 575 | 286TPH | 16.5 | VHS30-18-575-286TPH | $3,654.72 | 28.8 | 88.5 | 525 | |
| 40 | 1800 | 575 | 324TP | 16.5 | VHS40-18-575-324TP | $4,087.61 | 40.0 | 89.5 | 655 | |
| | 1800 | 575 | 324TPH | 12 | VHS40-18-575-324TPH | $4,087.61 | 40.0 | 89.5 | 638 | |
| 50 | 1800 | 575 | 326TP | 16.5 | VHS50-18-575-326TP | $4,607.06 | 50.0 | 90.0 | 667 | |
| | 1800 | 575 | 326TPH | 12 | VHS50-18-575-326TPH | $4,607.06 | 50.0 | 90.0 | 651 | |
| 60 | 1800 | 575 | 364TP | 16.5 | VHSN60-18-575-364TP | $5,002.83 | 59.0 | 91.0 | 840 | |
| 75 | 1800 | 575 | 365TP | 16.5 | VHS75-18-575-365TP | $7,216.69 | 70.0 | 91.5 | 1200 | |
| 100 | 1800 | 575 | 404TP | 16.5 | VHS100-18-575-404TP | $7,890.74 | 95.0 | 92.0 | 1236 | |
| 125 | 1800 | 575 | 405TP | 16.5 | VHS125-18-575-405TP | $8,509.14 | 115 | 92.5 | 1276 | |
| 150 | 1800 | 575 | 444TP | 16.5 | VHS150-18-575-444TP | $10,116.98 | 139 | 92.5 | 1735 | |
| 200 | 1800 | 575 | 445TP | 16.5 | VHS200-18-575-445TP | $15,181.64 | 187 | 92.5 | 1870 | |
| | 1800 | 575 | 445TPA | 20 | VHS200-18-575-445TPA | $15,181.64 | 187 | 92.5 | 1895 | |
| 250 | 1800 | 575 | 445TPA | 20 | VHS250-18-575-445TPA | $17,185.26 | 228 | 93.0 | 2050 | |

See page 80 for required VHS couplings.

Dimensions On Page 119

# HYUNDAI CROWN TRITON™ SERIES MOTORS PREMIUM EFFICIENCY

## *TEFC Enclosure ▪ Rigid Base*
## *Three-Phase ▪ 208-230/460 and 460 Volt*



HYUNDAI HEAVY INDUSTRIES CO.,LTD.

### Product Overview

- 1 - 250 HP
- 3600, 1800 and 1200 RPM
- 208-230/460 volt (1 - 125 HP)
- 460 volt (150 - 250 HP)
- TEFC enclosure
- Dual rated service factor 1.15 for 40°C / 1.0 for 65°C
- Class F insulation
- Rigid base
- Premium Efficiency, meets or exceeds EISA 2007 requirements defined in NEMA MG-1 table 12-12
- 3 year warranty
- NEMA Design B
- Cast iron frame and conduit box
- Suitable for part winding start on low voltage (1 - 125 HP)
- Suitable for wye-delta start (15 - 250 HP)
- Inverter ready, 10:1 CT / 20:1 VT
- Double drilled feet to accommodate mounting flexibility (324T - 449T)
- F2 field mountable
- Class I, Division 2, Groups A, B, C, D
- CC # 038A

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1800 | 208-230/460 | 143T | HHI1-18-143T | $420.00 | 1.6 | 85.5 | 53 | |
| | 1200 | 208-230/460 | 145T | HHI1-12-145T | $510.00 | 1.8 | 82.5 | 55 | |
| 1.5 | 3600 | 208-230/460 | 143T | HHI1.5-36-143T | $456.00 | 2.0 | 84.0 | 53 | |
| | 1800 | 208-230/460 | 145T | HHI1.5-18-145T | $462.00 | 2.2 | 86.5 | 55 | |
| | 1200 | 208-230/460 | 182T | HHI1.5-12-182T | $546.00 | 2.3 | 87.5 | 90 | |
| 2 | 3600 | 208-230/460 | 145T | HHI2-36-145T | $496.00 | 2.6 | 85.5 | 55 | |
| | 1800 | 208-230/460 | 145T | HHI2-18-145T | $515.00 | 3.0 | 86.5 | 55 | |
| | 1200 | 208-230/460 | 184T | HHI2-12-184T | $673.00 | 3.0 | 88.5 | 105 | |
| 3 | 3600 | 208-230/460 | 182T | HHI3-36-182T | $634.00 | 3.8 | 86.5 | 90 | |
| | 1800 | 208-230/460 | 182T | HHI3-18-182T | $625.00 | 3.9 | 89.5 | 90 | |
| | 1200 | 208-230/460 | 213T | HHI3-12-213T | $961.00 | 4.5 | 89.5 | 150 | |
| 5 | 3600 | 208-230/460 | 184T | HHI5-36-184T | $741.00 | 6.1 | 88.5 | 105 | |
| | 1800 | 208-230/460 | 184T | HHI5-18-184T | $710.00 | 6.5 | 89.5 | 105 | |
| | 1200 | 208-230/460 | 215T | HHI5-12-215T | $1,130.00 | 7.4 | 89.5 | 165 | |
| 7.5 | 3600 | 208-230/460 | 213T | HHI7.5-36-213T | $997.00 | 9.0 | 89.5 | 150 | |
| | 1800 | 208-230/460 | 213T | HHI7.5-18-213T | $958.00 | 9.5 | 91.7 | 150 | |
| | 1200 | 208-230/460 | 254T | HHI7.5-12-254T | $1,718.00 | 10.3 | 91.0 | 260 | |
| 10 | 3600 | 208-230/460 | 215T | HHI10-36-215T | $1,130.00 | 12.0 | 90.2 | 165 | |
| | 1800 | 208-230/460 | 215T | HHI10-18-215T | $1,155.00 | 12.8 | 91.7 | 165 | |
| | 1200 | 208-230/460 | 256T | HHI10-12-256T | $2,037.00 | 13.8 | 91.0 | 300 | |
| 15 | 3600 | 208-230/460 | 254T | HHI15-36-254T | $1,680.00 | 16.9 | 91.7 | 260 | |
| | 1800 | 208-230/460 | 254T | HHI15-18-254T | $1,662.00 | 18.3 | 92.4 | 260 | |
| | 1200 | 208-230/460 | 284T | HHI15-12-284T | $2,831.00 | 19.8 | 91.7 | 380 | |
| 20 | 3600 | 208-230/460 | 256T | HHI20-36-256T | $2,059.00 | 23.1 | 91.7 | 300 | |
| | 1800 | 208-230/460 | 256T | HHI20-18-256T | $1,918.00 | 24.8 | 93.0 | 300 | |
| | 1200 | 208-230/460 | 286T | HHI20-12-286T | $3,335.00 | 26.7 | 91.7 | 410 | |

Continued On Next Page
Dimensions On Page 120

# HYUNDAI CROWN TRITON™ SERIES MOTORS PREMIUM EFFICIENCY

## *TEFC Enclosure ▪ Rigid Base*

## *Three-Phase ▪ 208-230/460 and 460 Volt*

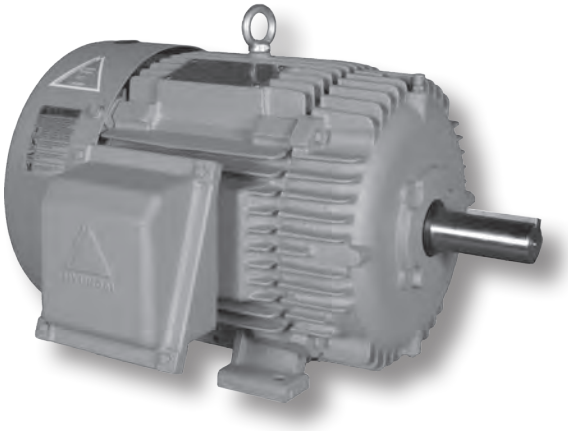
| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 25 | 3600 | 208-230/460 | 284T | HHI25-36-284T | $2,829.00 | 28.5 | 91.7 | 380 | |
| | 3600 | 208-230/460 | 284TS | HHI25-36-284TS | $2,546.00 | 28.5 | 91.7 | 380 | |
| | 1800 | 208-230/460 | 284T | HHI25-18-284T | $2,473.00 | 30.3 | 93.6 | 380 | |
| | 1200 | 208-230/460 | 324T | HHI25-12-324T | $3,969.00 | 31.2 | 93.0 | 550 | |
| 30 | 3600 | 208-230/460 | 286T | HHI30-36-286T | $3,322.00 | 33.8 | 91.7 | 410 | |
| | 3600 | 208-230/460 | 286TS | HHI30-36-286TS | $2,989.00 | 33.8 | 91.7 | 410 | |
| | 1800 | 208-230/460 | 286T | HHI30-18-286T | $2,763.00 | 36.0 | 93.6 | 410 | |
| | 1200 | 208-230/460 | 326T | HHI30-12-326T | $4,485.00 | 37.1 | 93.0 | 560 | |
| 40 | 3600 | 208-230/460 | 324T | HHI40-36-324T | $4,250.00 | 45.5 | 92.4 | 530 | |
| | 3600 | 208-230/460 | 324TS | HHI40-36-324TS | $3,825.00 | 45.5 | 92.4 | 530 | |
| | 1800 | 208-230/460 | 324T | HHI40-18-324T | $3,693.00 | 48.8 | 94.1 | 550 | |
| | 1200 | 208-230/460 | 364T | HHI40-12-364T | $6,628.00 | 48.8 | 94.1 | 780 | |
| 50 | 3600 | 208-230/460 | 326T | HHI50-36-326T | $5,036.00 | 55.8 | 93.0 | 540 | |
| | 3600 | 208-230/460 | 326TS | HHI50-36-326TS | $4,532.00 | 55.8 | 93.0 | 540 | |
| | 1800 | 208-230/460 | 326T | HHI50-18-326T | $4,423.00 | 59.9 | 94.5 | 560 | |
| | 1200 | 208-230/460 | 365T | HHI50-12-365T | $7,803.00 | 60.2 | 94.1 | 840 | |
| 60 | 3600 | 208-230/460 | 364T | HHI60-36-364T | $7,318.00 | 65.6 | 94.1 | 780 | |
| | 3600 | 208-230/460 | 364TS | HHI60-36-364TS | $6,586.00 | 65.6 | 94.1 | 780 | |
| | 1800 | 208-230/460 | 364T | HHI60-18-364T | $6,789.00 | 69.9 | 95.0 | 780 | |
| | 1200 | 208-230/460 | 404T | HHI60-12-404T | $8,930.00 | 71.2 | 94.5 | 1120 | RB |
| 75 | 3600 | 208-230/460 | 365T | HHI75-36-365T | $8,488.00 | 79.8 | 94.5 | 820 | |
| | 3600 | 208-230/460 | 365TS | HHI75-36-365TS | $7,639.00 | 79.8 | 94.5 | 820 | |
| | 1800 | 208-230/460 | 365T | HHI75-18-365T | $7,887.00 | 85.1 | 95.4 | 820 | |
| | 1200 | 208-230/460 | 405T | HHI75-12-405T | $10,285.00 | 87.0 | 94.5 | 1220 | RB |
| 100 | 3600 | 208-230/460 | 405TS | HHI100-36-405TS | $10,248.00 | 110.1 | 94.5 | 1110 | |
| | 1800 | 208-230/460 | 405T | HHI100-18-405T | $9,800.00 | 114.1 | 95.4 | 1110 | RB |
| | 1800 | 208-230/460 | 405T | HHI100-18-405TBB | $9,800.00 | 114.1 | 95.4 | 1110 | |
| | 1200 | 208-230/460 | 444T | HHI100-12-444T | $12,944.00 | 116.6 | 95.0 | 1530 | RB |
| 125 | 3600 | 208-230/460 | 444TS | HHI125-36-444TS | $14,099.00 | 139.5 | 95.0 | 1610 | |
| | 1800 | 208-230/460 | 444T | HHI125-18-444T | $13,400.00 | 142.0 | 95.4 | 1530 | RB |
| | 1800 | 208-230/460 | 444T | HHI125-18-444TBB | $13,400.00 | 142.0 | 95.4 | 1530 | |
| | 1200 | 208-230/460 | 445T | HHI125-12-445T | $15,259.00 | 147.7 | 95.0 | 1700 | RB |
| 150 | 3600 | 460 | 445TS | HHI150-36-445TS | $16,006.00 | 161.5 | 95.0 | 1770 | |
| | 1800 | 460 | 445T | HHI150-18-445T | $15,493.00 | 163.8 | 95.8 | 1700 | RB |
| | 1800 | 460 | 445T | HHI150-18-445TBB | $15,493.00 | 163.8 | 95.8 | 1700 | |
| | 1200 | 460 | 447T | HHI150-12-447T | $17,800.00 | 169.5 | 95.8 | 1860 | RB |
| 200 | 3600 | 460 | 447TS | HHI200-36-447TS | $19,918.00 | 219.3 | 95.4 | 1900 | |
| | 1800 | 460 | 447T | HHI200-18-447T | $17,938.00 | 222.4 | 96.2 | 1860 | RB |
| | 1800 | 460 | 447T | HHI200-18-447TBB | $17,938.00 | 222.4 | 96.2 | 1860 | |
| | 1200 | 460 | 449T | HHI200-12-449T | $21,386.00 | 231.2 | 95.8 | 2430 | RB |
| 250 | 3600 | 460 | 449TS | HHI250-36-449TS | $26,042.00 | 276.6 | 95.8 | 2430 | |
| | 1800 | 460 | 449T | HHI250-18-449T | $22,403.00 | 281.7 | 96.2 | 2430 | RB |
| | 1800 | 460 | 449T | HHI250-18-449TBB | $22,403.00 | 281.7 | 96.2 | 2430 | |

RB Roller bearing on drive-end for belted applications

Dimensions On Page 120

# HYUNDAI CROWN TRITON™ SERIES MOTORS PREMIUM EFFICIENCY

*TEFC Enclosure ▪ Rigid Base ▪ Factory Short Shaft*
*Three-Phase ▪ 208-230/460 and 460 Volt*



## Product Overview

- 25 - 200 HP
- 1800 and 1200 RPM
- 208-230/460 volt (25 - 125 HP)
- 460 volt (150 - 200 HP)
- TEFC enclosure
- Dual rated service factor 1.15 for 40°C / 1.0 for 65°C
- Class F insulation
- Rigid base
- Factory short shaft
- Premium Efficiency, meets or exceeds EISA 2007 requirements defined in NEMA MG-1 table 12-12
- 3 year warranty
- NEMA Design B
- Cast iron frame and conduit box
- Suitable for part winding start on low voltage (25 - 125 HP)
- Suitable for wye-delta start (25 - 200 HP)
- Inverter ready, 10:1 CT / 20:1 VT
- Double drilled feet to accommodate mounting flexibility (324TS - 449TS)
- F2 field mountable
- Class I, Division 2, Groups A, B, C, D
- CC # 038A

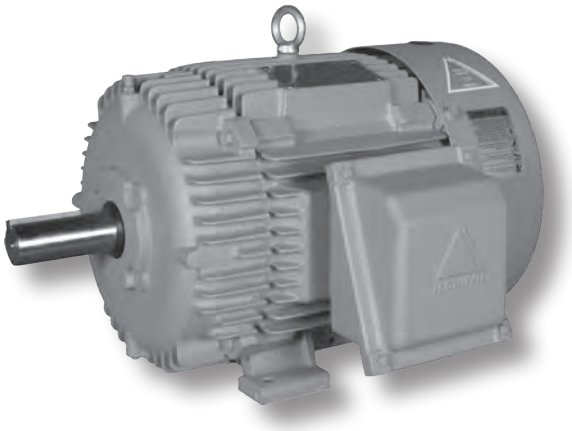
HYUNDAI HEAVY INDUSTRIES CO.,LTD.

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 25 | 1800 | 208-230/460 | 284TS | HHI25-18-284TS | $2,748.00 | 30.3 | 93.6 | 380 | |
| 30 | 1800 | 208-230/460 | 286TS | HHI30-18-286TS | $3,070.00 | 36.0 | 93.6 | 410 | |
| 40 | 1800 | 208-230/460 | 324TS | HHI40-18-324TS | $4,104.00 | 48.8 | 94.1 | 550 | |
| 50 | 1800 | 208-230/460 | 326TS | HHI50-18-326TS | $4,915.00 | 59.9 | 94.5 | 560 | |
| 60 | 1800 | 208-230/460 | 364TS | HHI60-18-364TS | $7,544.00 | 69.9 | 95.0 | 780 | |
| 75 | 1800 | 208-230/460 | 365TS | HHI75-18-365TS | $8,764.00 | 85.1 | 95.4 | 820 | |
| 100 | 1800 | 208-230/460 | 405TS | HHI100-18-405TSBB | $10,889.00 | 114.1 | 95.4 | 1110 | |
| 125 | 1800 | 208-230/460 | 444TS | HHI125-18-444TSBB | $14,889.00 | 142.0 | 95.4 | 1530 | |
| 150 | 1800 | 460 | 445TS | HHI150-18-445TSBB | $17,215.00 | 163.8 | 95.8 | 1700 | |
| | 1200 | 460 | 447TS | HHI150-12-447TSBB | $19,778.00 | 169.5 | 95.8 | 1860 | |
| 200 | 1800 | 460 | 447TS | HHI200-18-447TSBB | $19,932.00 | 222.4 | 96.2 | 1860 | |
| | 1200 | 460 | 449TS | HHI200-12-449TSBB | $23,763.00 | 231.2 | 95.8 | 2430 | |

Dimensions On Page 120

# HYUNDAI CROWN TRITON™ SERIES MOTORS PREMIUM EFFICIENCY

*TEFC Enclosure ▪ Rigid Base ▪ Factory F2 Mount*
*Three-Phase ▪ 208-230/460 and 460 Volt*



## Product Overview

- 25 - 200 HP
- 1800 and 1200 RPM
- 208-230/460 volt (25 - 125 HP)
- 460 volt (150 - 200 HP)
- TEFC enclosure
- Dual rated service factor 1.15 for 40°C / 1.0 for 65°C
- Class F insulation
- Rigid base
- Factory F2 mount
- Premium Efficiency, meets or exceeds EISA 2007 requirements defined in NEMA MG-1 table 12-12
- 3 year warranty
- NEMA Design B
- Cast iron frame and conduit box
- Suitable for part winding start on low voltage (25 - 125 HP)
- Suitable for wye-delta start (25 - 200 HP)
- Inverter ready, 10:1 CT / 20:1 VT
- Double drilled feet to accommodate mounting flexibility (324T - 449T)
- F1 field mountable
- Class I, Division 2, Groups A, B, C, D
- CC # 038A

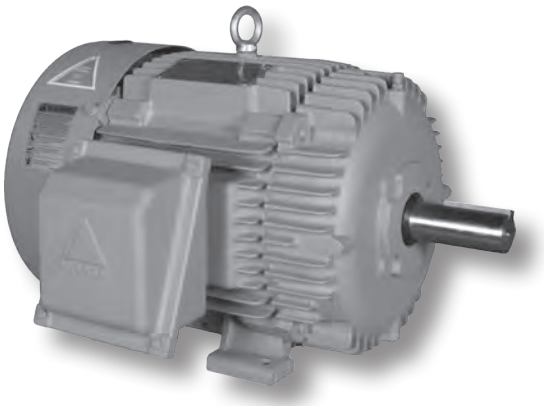
| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 25 | 1800 | 208-230/460 | 284T | HHI25-18-284T-F2 | $2,748.00 | 30.3 | 93.6 | 380 | |
| 30 | 1800 | 208-230/460 | 286T | HHI30-18-286T-F2 | $3,070.00 | 36.0 | 93.6 | 410 | |
| 40 | 1800 | 208-230/460 | 324T | HHI40-18-324T-F2 | $4,104.00 | 48.8 | 94.1 | 550 | |
| 50 | 1800 | 208-230/460 | 326T | HHI50-18-326T-F2 | $4,915.00 | 59.9 | 94.5 | 560 | |
| 60 | 1800 | 208-230/460 | 364T | HHI60-18-364T-F2 | $7,544.00 | 69.9 | 95.0 | 780 | |
| 75 | 1800 | 208-230/460 | 365T | HHI75-18-365T-F2 | $8,764.00 | 85.1 | 95.4 | 820 | |
| | 1200 | 208-230/460 | 405T | HHI75-12-405T-F2 | $11,428.00 | 87.0 | 94.5 | 1220 | RB |
| 100 | 1800 | 208-230/460 | 405T | HHI100-18-405T-F2 | $10,889.00 | 114.1 | 95.4 | 1110 | RB |
| 125 | 1800 | 208-230/460 | 444T | HHI125-18-444T-F2 | $14,889.00 | 142.0 | 95.4 | 1530 | RB |
| 150 | 1800 | 460 | 445T | HHI150-18-445T-F2 | $17,215.00 | 163.8 | 95.8 | 1700 | RB |
| | 1200 | 460 | 447T | HHI150-12-447T-F2 | $19,778.00 | 169.5 | 95.8 | 1860 | RB |
| 200 | 1800 | 460 | 447T | HHI200-18-447T-F2 | $19,932.00 | 222.4 | 96.2 | 1860 | RB |
| | 1200 | 460 | 449T | HHI200-12-449T-F2 | $23,763.00 | 231.2 | 95.8 | 2430 | RB |

RB Roller bearing on drive-end for belted applications

Dimensions On Page 120

# HYUNDAI CROWN TRITON™ SERIES MOTORS
# PREMIUM EFFICIENCY

*TEFC Enclosure ▪ Rigid Base*
*Three-Phase ▪ 575 Volt*



HYUNDAI HEAVY INDUSTRIES CO.,LTD.

## Product Overview

- 1 - 200 HP
- 3600, 1800 and 1200 RPM
- 575 volt
- TEFC enclosure
- Dual rated service factor 1.15 for 40°C / 1.0 for 65°C
- Class F insulation
- Rigid base
- Premium Efficiency, meets or exceeds EISA 2007 requirements defined in NEMA MG-1 table 12-12
- 3 year warranty
- NEMA Design B
- Cast iron frame and conduit box
- Inverter ready, 10:1 CT / 20:1 VT
- Double drilled feet to accommodate mounting flexibility (324T - 447T)
- F2 field mountable
- Class I, Division 2, Groups A, B, C, D
- CC # 038A

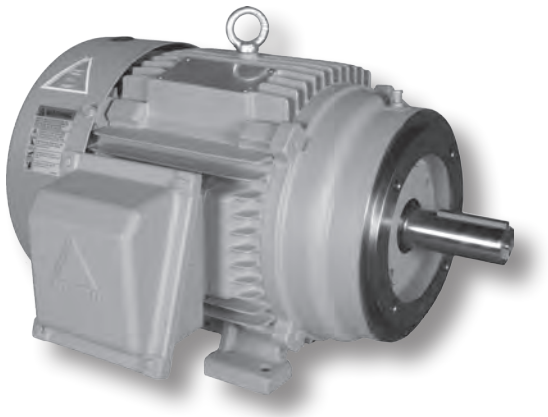
| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1800 | 575 | 143T | HHI1-18-575-143T | $467.00 | 1.3 | 85.5 | 53 | |
| 1.5 | 1800 | 575 | 145T | HHI1.5-18-575-145T | $514.00 | 1.8 | 86.5 | 55 | |
| 2 | 1800 | 575 | 145T | HHI2-18-575-145T | $573.00 | 2.4 | 86.5 | 55 | |
| 3 | 1800 | 575 | 182T | HHI3-18-575-182T | $695.00 | 3.1 | 89.5 | 90 | |
| 5 | 3600 | 575 | 184T | HHI5-36-575-184T | $824.00 | 4.9 | 88.5 | 105 | |
| | 1800 | 575 | 184T | HHI5-18-575-184T | $789.00 | 5.2 | 89.5 | 105 | |
| | 1200 | 575 | 215T | HHI5-12-575-215T | $1,256.00 | 5.9 | 89.5 | 165 | |
| 7.5 | 3600 | 575 | 213T | HHI7.5-36-575-213T | $1,108.00 | 7.2 | 89.5 | 150 | |
| | 1800 | 575 | 213T | HHI7.5-18-575-213T | $1,065.00 | 7.6 | 91.7 | 150 | |
| | 1200 | 575 | 254T | HHI7.5-12-575-254T | $1,909.00 | 8.2 | 91.0 | 260 | |
| 10 | 1800 | 575 | 215T | HHI10-18-575-215T | $1,284.00 | 10.2 | 91.7 | 165 | |
| 15 | 3600 | 575 | 254T | HHI15-36-575-254T | $1,867.00 | 13.5 | 91.7 | 260 | |
| | 1800 | 575 | 254T | HHI15-18-575-254T | $1,847.00 | 14.6 | 92.4 | 260 | |
| 20 | 3600 | 575 | 256T | HHI20-36-575-256T | $2,288.00 | 18.5 | 91.7 | 300 | |
| | 1800 | 575 | 256T | HHI20-18-575-256T | $2,132.00 | 19.8 | 93.0 | 300 | |
| 25 | 3600 | 575 | 284TS | HHI25-36-575-284TS | $2,829.00 | 22.8 | 91.7 | 380 | |
| | 1800 | 575 | 284T | HHI25-18-575-284T | $2,748.00 | 24.2 | 93.6 | 380 | |
| 30 | 3600 | 575 | 286TS | HHI30-36-575-286TS | $3,322.00 | 27.0 | 91.7 | 410 | |
| | 1800 | 575 | 286T | HHI30-18-575-286T | $3,070.00 | 28.8 | 93.6 | 410 | |
| 40 | 1800 | 575 | 324T | HHI40-18-575-324T | $4,104.00 | 39.0 | 94.1 | 550 | |
| 50 | 3600 | 575 | 326TS | HHI50-36-575-326TS | $5,036.00 | 44.6 | 93.0 | 540 | |
| | 1800 | 575 | 326T | HHI50-18-575-326T | $4,915.00 | 47.9 | 94.5 | 560 | |
| 60 | 3600 | 575 | 364TS | HHI60-36-575-364TS | $7,318.00 | 52.5 | 94.1 | 780 | |
| | 1800 | 575 | 364T | HHI60-18-575-364T | $7,544.00 | 56.0 | 95.0 | 780 | |
| 75 | 1800 | 575 | 365T | HHI75-18-575-365T | $8,764.00 | 68.1 | 95.4 | 820 | |
| 100 | 1800 | 575 | 405T | HHI100-18-575-405T | $10,889.00 | 91.3 | 95.4 | 1110 | RB |
| | 1200 | 575 | 444T | HHI100-12-575-444T | $14,383.00 | 93.3 | 95.0 | 1530 | RB |
| 125 | 1800 | 575 | 444T | HHI125-18-575-444T | $14,889.00 | 113.6 | 95.4 | 1530 | RB |
| 150 | 1800 | 575 | 445T | HHI150-18-575-445T | $17,215.00 | 131.0 | 95.8 | 1700 | RB |
| | 1800 | 575 | 445T | HHI150-18-575-445TBB | $17,215.00 | 131.0 | 95.8 | 1700 | |
| 200 | 1800 | 575 | 447T | HHI200-18-575-447T | $19,932.00 | 177.9 | 96.2 | 1860 | RB |

RB Roller bearing on drive-end for belted applications

Dimensions On Page 120

# HYUNDAI CROWN TRITON™ SERIES MOTORS
# PREMIUM EFFICIENCY

*TEFC Enclosure ▪ C-Face ▪ Rigid Base*
*Three-Phase ▪ 208-230/460 and 460 Volt*



HYUNDAI HEAVY INDUSTRIES CO.,LTD.

## Product Overview

- 1 - 200 HP
- 3600, 1800 and 1200 RPM
- 208-230/460 volt (1 - 125 HP)
- 460 volt (150 - 200 HP)
- TEFC enclosure
- Dual rated service factor 1.15 for 40°C / 1.0 for 65°C
- Class F insulation
- C-face - rigid base
- Premium Efficiency, meets or exceeds EISA 2007 requirements defined in NEMA MG-1 table 12-12
- 3 year warranty
- NEMA Design B
- Cast iron frame and conduit box
- Suitable for part winding start on low voltage (1 - 125 HP)
- Suitable for wye-delta start (15 - 200 HP)
- Inverter ready, 10:1 CT / 20:1 VT
- Double drilled feet to accommodate mounting flexibility (324TC - 449TC)
- F2 field mountable
- Class I, Division 2, Groups A, B, C, D
- CC # 038A

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1800 | 208-230/460 | 143TC | HHI1-18-143TC | $438.00 | 1.6 | 85.5 | 53 | |
| | 1200 | 208-230/460 | 145TC | HHI1-12-145TC | $532.00 | 1.8 | 82.5 | 55 | |
| 1.5 | 3600 | 208-230/460 | 143TC | HHI1.5-36-143TC | $475.00 | 2.0 | 84.0 | 53 | |
| | 1800 | 208-230/460 | 145TC | HHI1.5-18-145TC | $482.00 | 2.2 | 86.5 | 55 | |
| 2 | 3600 | 208-230/460 | 145TC | HHI2-36-145TC | $517.00 | 2.6 | 85.5 | 55 | |
| | 1800 | 208-230/460 | 145TC | HHI2-18-145TC | $537.00 | 3.0 | 86.5 | 55 | |
| 3 | 3600 | 208-230/460 | 182TC | HHI3-36-182TC | $661.00 | 3.8 | 86.5 | 90 | |
| | 1800 | 208-230/460 | 182TC | HHI3-18-182TC | $652.00 | 3.9 | 89.5 | 90 | |
| 5 | 3600 | 208-230/460 | 184TC | HHI5-36-184TC | $772.00 | 6.1 | 88.5 | 105 | |
| | 1800 | 208-230/460 | 184TC | HHI5-18-184TC | $740.00 | 6.5 | 89.5 | 105 | |
| | 1200 | 208-230/460 | 215TC | HHI5-12-215TC | $1,178.00 | 7.4 | 89.5 | 165 | |
| 7.5 | 3600 | 208-230/460 | 213TC | HHI7.5-36-213TC | $1,039.00 | 9.0 | 89.5 | 150 | |
| | 1800 | 208-230/460 | 213TC | HHI7.5-18-213TC | $998.00 | 9.5 | 91.7 | 150 | |
| | 1200 | 208-230/460 | 254TC | HHI7.5-12-254TC | $1,790.00 | 10.3 | 91.0 | 260 | |
| 10 | 3600 | 208-230/460 | 215TC | HHI10-36-215TC | $1,178.00 | 12.0 | 90.2 | 165 | |
| | 1800 | 208-230/460 | 215TC | HHI10-18-215TC | $1,204.00 | 12.8 | 91.7 | 165 | |
| | 1200 | 208-230/460 | 256TC | HHI10-12-256TC | $2,122.00 | 13.8 | 91.0 | 300 | |
| 15 | 3600 | 208-230/460 | 254TC | HHI15-36-254TC | $1,750.00 | 16.9 | 91.7 | 260 | |
| | 1800 | 208-230/460 | 254TC | HHI15-18-254TC | $1,732.00 | 18.3 | 92.4 | 260 | |
| | 1200 | 208-230/460 | 284TC | HHI15-12-284TC | $2,949.00 | 19.8 | 91.7 | 380 | |
| 20 | 3600 | 208-230/460 | 256TC | HHI20-36-256TC | $2,145.00 | 23.1 | 91.7 | 300 | |
| | 1800 | 208-230/460 | 256TC | HHI20-18-256TC | $1,998.00 | 24.8 | 93.0 | 300 | |
| | 1200 | 208-230/460 | 286TC | HHI20-12-286TC | $3,474.00 | 26.7 | 91.7 | 410 | |
| 25 | 3600 | 208-230/460 | 284TSC | HHI25-36-284TSC | $2,653.00 | 28.5 | 91.7 | 380 | |
| | 1800 | 208-230/460 | 284TC | HHI25-18-284TC | $2,577.00 | 30.3 | 93.6 | 380 | |
| | 1800 | 208-230/460 | 284TSC | HHI25-18-284TSC | $2,863.00 | 30.3 | 93.6 | 380 | |
| | 1200 | 208-230/460 | 324TC | HHI25-12-324TC | $4,135.00 | 31.2 | 93.0 | 550 | |

Continued On Next Page
Dimensions On Page 121-122

# HYUNDAI CROWN TRITON™ SERIES MOTORS PREMIUM EFFICIENCY

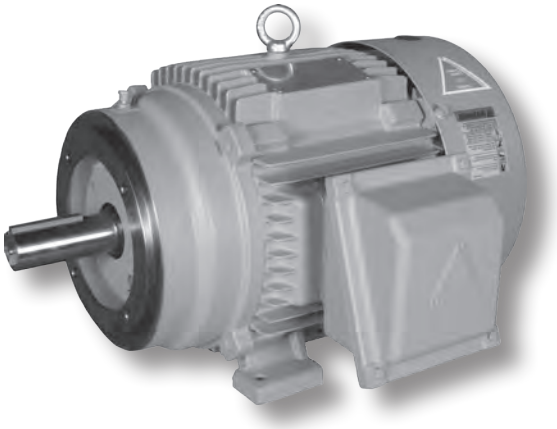
## *TEFC Enclosure ▪ C-Face ▪ Rigid Base*
## *Three-Phase ▪ 208-230/460 and 460 Volt*

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | 3600 | 208-230/460 | 286TSC | HHI30-36-286TSC | $3,114.00 | 33.8 | 91.7 | 410 | |
| 30 | 1800 | 208-230/460 | 286TC | HHI30-18-286TC | $2,879.00 | 36.0 | 93.6 | 410 | |
| | 1200 | 208-230/460 | 326TC | HHI30-12-326TC | $4,672.00 | 37.1 | 93.0 | 560 | |
| 40 | 1800 | 208-230/460 | 324TC | HHI40-18-324TC | $3,847.00 | 48.8 | 94.1 | 550 | |
| | 1200 | 208-230/460 | 364TC | HHI40-12-364TC | $6,905.00 | 48.8 | 94.1 | 780 | |
| 50 | 1800 | 208-230/460 | 326TC | HHI50-18-326TC | $4,608.00 | 59.9 | 94.5 | 560 | |
| | 1200 | 208-230/460 | 365TC | HHI50-12-365TC | $8,129.00 | 60.2 | 94.1 | 840 | |
| 60 | 1800 | 208-230/460 | 364TC | HHI60-18-364TC | $7,072.00 | 69.9 | 95.0 | 780 | |
| | 1200 | 208-230/460 | 404TC | HHI60-12-404TC | $9,303.00 | 71.2 | 94.5 | 1120 | |
| | 1800 | 208-230/460 | 365TC | HHI75-18-365TC | $8,216.00 | 85.1 | 95.4 | 820 | |
| 75 | 1800 | 208-230/460 | 365TSC | HHI75-18-365TSC | $9,130.00 | 85.1 | 95.4 | 820 | |
| | 1200 | 208-230/460 | 405TC | HHI75-12-405TC | $10,714.00 | 87.0 | 94.5 | 1220 | |
| | 1800 | 208-230/460 | 405TC | HHI100-18-405TC | $10,209.00 | 114.1 | 95.4 | 1110 | |
| 100 | 1800 | 208-230/460 | 405TSC | HHI100-18-405TSC | $11,343.00 | 114.1 | 95.4 | 1110 | |
| | 1200 | 208-230/460 | 444TC | HHI100-12-444TC | $13,484.00 | 116.6 | 95.0 | 1530 | |
| | 1800 | 208-230/460 | 444TC | HHI125-18-444TC | $13,959.00 | 142.0 | 95.4 | 1530 | |
| 125 | 1800 | 208-230/460 | 444TSC | HHI125-18-444TSC | $15,510.00 | 142.0 | 95.4 | 1530 | |
| | 1200 | 208-230/460 | 445TC | HHI125-12-445TC | $15,895.00 | 147.7 | 95.0 | 1700 | |
| | 1800 | 460 | 445TC | HHI150-18-445TC | $16,139.00 | 163.8 | 95.8 | 1700 | |
| 150 | 1800 | 460 | 445TSC | HHI150-18-445TSC | $17,933.00 | 163.8 | 95.8 | 1700 | |
| | 1200 | 460 | 447TC | HHI150-12-447TC | $18,542.00 | 169.5 | 95.8 | 1860 | |
| | 1800 | 460 | 447TC | HHI200-18-447TC | $18,686.00 | 222.4 | 96.2 | 1860 | |
| 200 | 1800 | 460 | 447TSC | HHI200-18-447TSC | $20,763.00 | 222.4 | 96.2 | 1860 | |
| | 1200 | 460 | 449TC | HHI200-12-449TC | $22,278.00 | 231.2 | 95.8 | 2430 | |

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# HYUNDAI CROWN TRITON™ SERIES MOTORS PREMIUM EFFICIENCY

*TEFC Enclosure ▪ C-Face ▪ Rigid Base ▪ Factory F2 Mount*
*Three-Phase ▪ 208-230/460 and 460 Volt*



## Product Overview

- 20 - 200 HP
- 1800 RPM
- 208-230/460 volt (20 - 125 HP)
- 460 volt (150 - 200 HP)
- TEFC enclosure
- Dual rated service factor 1.15 for 40°C / 1.0 for 65°C
- Class F insulation
- C-face - rigid base
- Factory F2 mount
- Premium Efficiency, meets or exceeds EISA 2007 requirements defined in NEMA MG-1 table 12-12
- 3 year warranty
- NEMA Design B
- Cast iron frame and conduit box
- Suitable for part winding start on low voltage (20 - 125 HP)
- Suitable for wye-delta start (20 - 200 HP)
- Inverter ready, 10:1 CT / 20:1 VT
- Double drilled feet to accommodate mounting flexibility (324TC - 447TC)
- F1 field mountable
- Class I, Division 2, Groups A, B, C, D
- CC # 038A

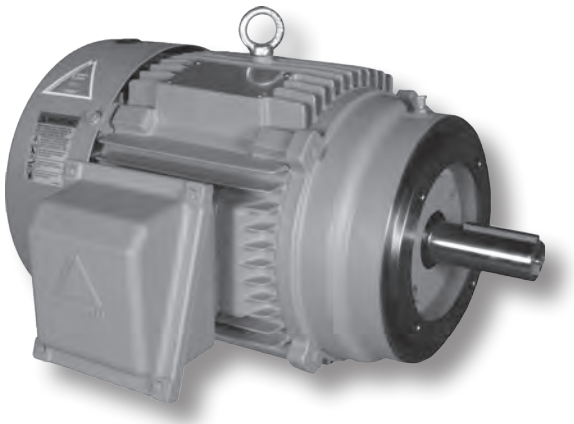
HYUNDAI HEAVY INDUSTRIES CO.,LTD.

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 20 | 1800 | 208-230/460 | 256TC | HHI20-18-256TC-F2 | $2,220.00 | 24.8 | 93.0 | 300 | |
| 25 | 1800 | 208-230/460 | 284TC | HHI25-18-284TC-F2 | $2,863.00 | 30.3 | 93.6 | 380 | |
| 30 | 1800 | 208-230/460 | 286TC | HHI30-18-286TC-F2 | $3,198.00 | 36.0 | 93.6 | 410 | |
| 40 | 1800 | 208-230/460 | 324TC | HHI40-18-324TC-F2 | $4,275.00 | 48.8 | 94.1 | 550 | |
| 50 | 1800 | 208-230/460 | 326TC | HHI50-18-326TC-F2 | $5,120.00 | 59.9 | 94.5 | 560 | |
| 60 | 1800 | 208-230/460 | 364TC | HHI60-18-364TC-F2 | $7,858.00 | 69.9 | 95.0 | 780 | |
| 100 | 1800 | 208-230/460 | 405TC | HHI100-18-405TC-F2 | $11,343.00 | 114.1 | 95.4 | 1110 | |
| | 1800 | 208-230/460 | 405TSC | HHI100-18-405TSC-F2 | $12,604.00 | 114.1 | 95.4 | 1110 | |
| 125 | 1800 | 208-230/460 | 444TC | HHI125-18-444TC-F2 | $15,510.00 | 142.0 | 95.4 | 1530 | |
| 150 | 1800 | 460 | 445TC | HHI150-18-445TC-F2 | $17,933.00 | 163.8 | 95.8 | 1700 | |
| | 1800 | 460 | 445TSC | HHI150-18-445TSC-F2 | $19,926.00 | 163.8 | 95.8 | 1700 | |
| 200 | 1800 | 460 | 447TC | HHI200-18-447TC-F2 | $20,763.00 | 222.4 | 96.2 | 1860 | |

Dimensions On Page 121-122

# HYUNDAI CROWN TRITON™ SERIES MOTORS
# PREMIUM EFFICIENCY

*TEFC Enclosure ▪ C-Face ▪ Round Body*
*Three-Phase ▪ 208-230/460 Volt*



HYUNDAI HEAVY INDUSTRIES CO.,LTD.

## Product Overview

- 1 - 40 HP
- 1800 RPM
- 208-230/460 volt
- TEFC enclosure
- Dual rated service factor 1.15 for 40°C / 1.0 for 65°C
- Class F insulation
- C-face - round body
- Premium Efficiency, meets or exceeds EISA 2007 requirements defined in NEMA MG-1 table 12-12
- 3 year warranty
- NEMA Design B
- Cast iron frame and conduit box
- Suitable for part winding start on low voltage
- Suitable for wye-delta start (15 - 40 HP)
- Inverter ready, 10:1 CT / 20:1 VT
- F2 field mountable
- Class I, Division 2, Groups A, B, C, D
- CC # 038A

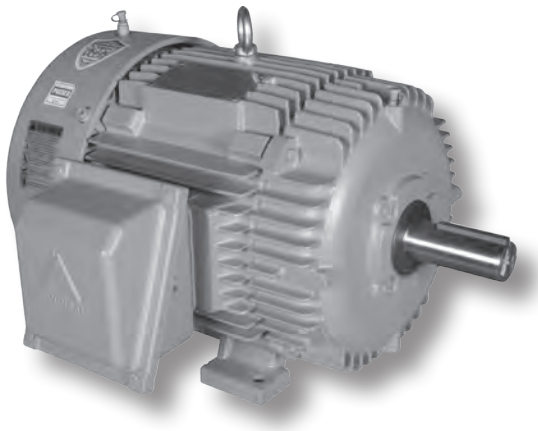
| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1800 | 208-230/460 | 143TC | HHI1-18-143TCRD | $438.00 | 1.6 | 85.5 | 53 | |
| 1.5 | 1800 | 208-230/460 | 145TC | HHI1.5-18-145TCRD | $482.00 | 2.2 | 86.5 | 55 | |
| 2 | 1800 | 208-230/460 | 145TC | HHI2-18-145TCRD | $537.00 | 3.0 | 86.5 | 55 | |
| 3 | 1800 | 208-230/460 | 182TC | HHI3-18-182TCRD | $652.00 | 3.9 | 89.5 | 90 | |
| 5 | 1800 | 208-230/460 | 184TC | HHI5-18-184TCRD | $740.00 | 6.5 | 89.5 | 105 | |
| 7.5 | 1800 | 208-230/460 | 213TC | HHI7.5-18-213TCRD | $998.00 | 9.5 | 91.7 | 150 | |
| 10 | 1800 | 208-230/460 | 215TC | HHI10-18-215TCRD | $1,204.00 | 12.8 | 91.7 | 165 | |
| 15 | 1800 | 208-230/460 | 254TC | HHI15-18-254TCRD | $1,732.00 | 18.3 | 92.4 | 260 | |
| 20 | 1800 | 208-230/460 | 256TC | HHI20-18-256TCRD | $1,998.00 | 24.8 | 93.0 | 300 | |
| 25 | 1800 | 208-230/460 | 284TC | HHI25-18-284TCRD | $2,577.00 | 30.3 | 93.6 | 380 | |
| 30 | 1800 | 208-230/460 | 286TC | HHI30-18-286TCRD | $2,879.00 | 36.0 | 93.6 | 410 | |
| 40 | 1800 | 208-230/460 | 324TC | HHI40-18-324TCRD | $3,847.00 | 48.8 | 94.1 | 550 | |

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# HYUNDAI CROWN TRITON™ SERIES MOTORS
# IEEE-841

## *TEFC Enclosure ▪ Rigid Base*
## *Three-Phase ▪ 460 Volt*





## Product Overview

- 1 - 250 HP
- 3600, 1800 and 1200 RPM
- Single voltage, 460 volt
- TEFC enclosure
- Dual rated service factor
  1.15 for 40°C / 1.0 for 65°C
- Class F insulation with Class H varnish, double dip and bake cycles
- Rigid base
- Full compliance with IEEE-841, version 2009
- Meets or exceeds EISA 2007 requirements defined in NEMA MG-1 table 12-12
- 5 year warranty
- Parker Hannifan ProTech IP66 labyrinth seals on both drive-end and opposite drive-end bearings
- CSA Certified For Class I, Division 2, Groups A, B, C, D
- Inverter duty, 10:1 CT / 1000:1 VT
- Inverter shield insulation and inverter grade magnet wire meets or exceeds NEMA MG-1 Part 31 for exceptional corona and transient protection
- Class B temperature rise
- IP55 degree of protection
- NEMA design B torque
- IEEE-841 motor test report supplied with each motor

HYUNDAI HEAVY INDUSTRIES CO.,LTD.

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1800 | 460 | 143T | IEEE1-18-143T | $845.00 | 1.6 | 85.5 | 53 | |
| | 1200 | 460 | 145T | IEEE1-12-145T | $1,008.00 | 1.8 | 82.5 | 55 | |
| 1.5 | 3600 | 460 | 143T | IEEE1.5-36-143T | $926.00 | 2.0 | 84.0 | 53 | |
| | 1800 | 460 | 145T | IEEE1.5-18-145T | $903.00 | 2.2 | 86.5 | 55 | |
| | 1200 | 460 | 182T | IEEE1.5-12-182T | $1,098.00 | 2.3 | 87.5 | 90 | |
| 2 | 3600 | 460 | 145T | IEEE2-36-145T | $970.00 | 2.6 | 85.5 | 55 | |
| | 1800 | 460 | 145T | IEEE2-18-145T | $976.00 | 3.0 | 86.5 | 55 | |
| | 1200 | 460 | 184T | IEEE2-12-184T | $1,289.00 | 3.0 | 88.5 | 105 | |
| 3 | 3600 | 460 | 182T | IEEE3-36-182T | $1,199.00 | 3.8 | 86.5 | 90 | |
| | 1800 | 460 | 182T | IEEE3-18-182T | $1,196.00 | 3.9 | 89.5 | 90 | |
| | 1200 | 460 | 213T | IEEE3-12-213T | $1,649.00 | 4.5 | 89.5 | 150 | |
| 5 | 3600 | 460 | 184T | IEEE5-36-184T | $1,342.00 | 6.1 | 88.5 | 105 | |
| | 1800 | 460 | 184T | IEEE5-18-184T | $1,359.00 | 6.5 | 89.5 | 105 | |
| | 1200 | 460 | 215T | IEEE5-12-215T | $1,891.00 | 7.4 | 89.5 | 165 | |
| 7.5 | 3600 | 460 | 213T | IEEE7.5-36-213T | $1,661.00 | 9.0 | 89.5 | 150 | |
| | 1800 | 460 | 213T | IEEE7.5-18-213T | $1,673.00 | 9.5 | 91.7 | 150 | |
| | 1200 | 460 | 254T | IEEE7.5-12-254T | $2,675.00 | 10.3 | 91.0 | 260 | |
| 10 | 3600 | 460 | 215T | IEEE10-36-215T | $1,818.00 | 12.0 | 90.2 | 165 | |
| | 1800 | 460 | 215T | IEEE10-18-215T | $1,847.00 | 12.8 | 91.7 | 165 | |
| | 1200 | 460 | 256T | IEEE10-12-256T | $3,061.00 | 13.8 | 91.0 | 300 | |
| 15 | 3600 | 460 | 254T | IEEE15-36-254T | $2,576.00 | 16.9 | 91.7 | 260 | |
| | 1800 | 460 | 254T | IEEE15-18-254T | $2,512.00 | 18.3 | 92.4 | 260 | |
| | 1200 | 460 | 284T | IEEE15-12-284T | $3,854.00 | 19.8 | 91.7 | 360 | |
| 20 | 3600 | 460 | 256T | IEEE20-36-256T | $3,020.00 | 23.1 | 91.7 | 300 | |
| | 1800 | 460 | 256T | IEEE20-18-256T | $2,936.00 | 24.8 | 93.0 | 300 | |
| | 1200 | 460 | 286T | IEEE20-12-286T | $4,083.00 | 26.7 | 91.7 | 390 | |

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# HYUNDAI CROWN TRITON™ SERIES MOTORS
# IEEE-841

## *TEFC Enclosure ▪ Rigid Base*
## *Three-Phase ▪ 460 Volt*

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 25 | 3600 | 460 | 284TS | IEEE25-36-284TS | $3,369.00 | 28.5 | 91.7 | 380 | |
| | 1800 | 460 | 284T | IEEE25-18-284T | $3,479.00 | 30.3 | 93.6 | 380 | |
| | 1200 | 460 | 324T | IEEE25-12-324T | $4,728.00 | 31.2 | 93.0 | 550 | |
| 30 | 3600 | 460 | 286TS | IEEE30-36-286TS | $3,560.00 | 33.8 | 91.7 | 410 | |
| | 1800 | 460 | 286T | IEEE30-18-286T | $3,906.00 | 36.0 | 93.6 | 410 | |
| | 1200 | 460 | 326T | IEEE30-12-326T | $5,509.00 | 37.1 | 93.0 | 560 | |
| 40 | 3600 | 460 | 324TS | IEEE40-36-324TS | $5,024.00 | 45.5 | 92.4 | 550 | |
| | 1800 | 460 | 324T | IEEE40-18-324T | $4,908.00 | 48.8 | 94.1 | 550 | |
| | 1200 | 460 | 364T | IEEE40-12-364T | $9,249.00 | 48.8 | 94.1 | 780 | |
| 50 | 3600 | 460 | 326TS | IEEE50-36-326TS | $5,663.00 | 55.8 | 93.0 | 560 | |
| | 1800 | 460 | 326T | IEEE50-18-326T | $5,759.00 | 59.9 | 94.5 | 560 | |
| | 1200 | 460 | 365T | IEEE50-12-365T | $10,028.00 | 60.2 | 94.1 | 840 | |
| 60 | 3600 | 460 | 364TS | IEEE60-36-364TS | $8,462.00 | 65.6 | 94.1 | 780 | |
| | 1800 | 460 | 364T | IEEE60-18-364T | $9,598.00 | 69.9 | 95.0 | 780 | |
| | 1200 | 460 | 404T | IEEE60-12-404T | $11,918.00 | 71.2 | 94.5 | 1120 | RB |
| 75 | 3600 | 460 | 365TS | IEEE75-36-365TS | $9,667.00 | 79.8 | 94.5 | 820 | |
| | 1800 | 460 | 365T | IEEE75-18-365T | $9,911.00 | 85.1 | 95.4 | 820 | |
| | 1200 | 460 | 405T | IEEE75-12-405T | $13,039.00 | 87.0 | 94.5 | 1220 | RB |
| 100 | 3600 | 460 | 405TS | IEEE100-36-405TS | $12,124.00 | 110.1 | 94.5 | 1110 | |
| | 1800 | 460 | 405T | IEEE100-18-405T | $13,692.00 | 114.1 | 95.4 | 1110 | RB |
| | 1800 | 460 | 405T | IEEE100-18-405TBB | $13,692.00 | 114.1 | 95.4 | 1110 | |
| | 1200 | 460 | 444T | IEEE100-12-444T | $16,204.00 | 116.6 | 95.0 | 1530 | RB |
| 125 | 3600 | 460 | 444TS | IEEE125-36-444TS | $18,435.00 | 139.5 | 95.0 | 1610 | |
| | 1800 | 460 | 444T | IEEE125-18-444T | $17,941.00 | 142.0 | 95.4 | 1530 | RB |
| | 1800 | 460 | 444T | IEEE125-18-444TBB | $17,941.00 | 142.0 | 95.4 | 1530 | |
| | 1200 | 460 | 445T | IEEE125-12-445T | $18,804.00 | 147.7 | 95.0 | 1700 | RB |
| 150 | 3600 | 460 | 445TS | IEEE150-36-445TS | $20,270.00 | 161.5 | 95.0 | 1770 | |
| | 1800 | 460 | 445T | IEEE150-18-445T | $20,308.00 | 163.8 | 95.8 | 1640 | RB |
| | 1800 | 460 | 445T | IEEE150-18-445TBB | $20,308.00 | 163.8 | 95.8 | 1640 | |
| | 1200 | 460 | 447T | IEEE150-12-447T | $21,925.00 | 169.5 | 95.8 | 1970 | RB |
| 200 | 3600 | 460 | 447TS | IEEE200-36-447TS | $26,514.00 | 219.3 | 95.4 | 1900 | |
| | 1800 | 460 | 447T | IEEE200-18-447T | $22,898.00 | 222.4 | 96.2 | 1860 | RB |
| | 1800 | 460 | 447T | IEEE200-18-447TBB | $22,898.00 | 222.4 | 96.2 | 1860 | |
| | 1200 | 460 | 449T | IEEE200-12-449T | $26,052.00 | 231.2 | 95.8 | 2430 | RB |
| 250 | 3600 | 460 | 449TS | IEEE250-36-449TS | $30,492.00 | 276.6 | 95.8 | 2430 | |
| | 1800 | 460 | 449T | IEEE250-18-449T | $27,466.00 | 281.7 | 96.2 | 2430 | RB |

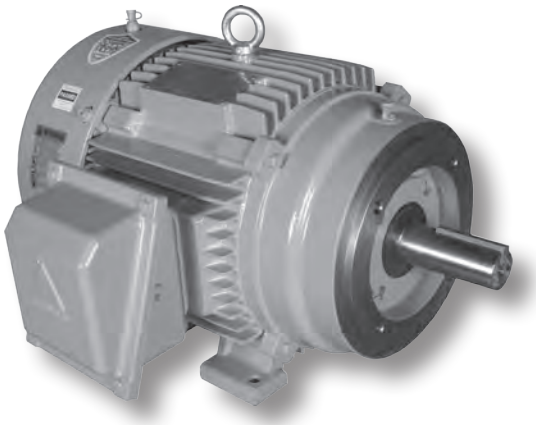
RB Roller bearing on drive-end for belted applications

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# HYUNDAI CROWN TRITON™ SERIES MOTORS
# IEEE-841

## *TEFC Enclosure ▪ C-Face ▪ Rigid Base*
## *Three-Phase ▪ 460 Volt*





## Product Overview

- 1 - 100 HP
- 3600 and 1800 RPM
- Single voltage, 460 volt
- TEFC enclosure
- Dual rated service factor
  1.15 for 40°C / 1.0 for 65°C
- Class F insulation with Class H varnish, double dip and bake cycles
- C-face - rigid base
- Full compliance with IEEE-841, version 2009
- Meets or exceeds EISA 2007 requirements defined in NEMA MG-1 table 12-12
- 5 year warranty
- Parker Hannifan ProTech IP66 labyrinth seals on both drive-end and opposite drive-end bearings
- CSA Certified For Class I, Division 2, Groups A, B, C, D
- Inverter duty, 10:1 CT / 1000:1 VT
- Inverter shield insulation and inverter grade magnet wire meets or exceeds NEMA MG-1 Part 31 for exceptional corona and transient protection
- Class B temperature rise
- IP55 degree of protection
- NEMA design B torque
- IEEE-841 motor test report supplied with each motor

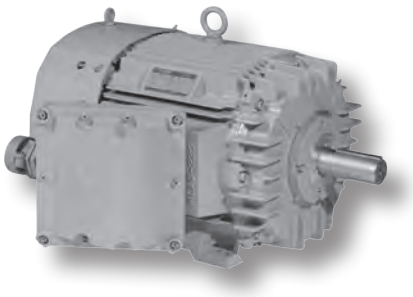
| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1800 | 460 | 143TC | IEEE1-18-143TC | $881.00 | 1.6 | 85.5 | 53 | |
| 1.5 | 3600 | 460 | 143TC | IEEE1.5-36-143TC | $965.00 | 2.0 | 84.0 | 53 | |
| | 1800 | 460 | 145TC | IEEE1.5-18-145TC | $941.00 | 2.2 | 86.5 | 55 | |
| 2 | 3600 | 460 | 145TC | IEEE2-36-145TC | $1,011.00 | 2.6 | 85.5 | 55 | |
| | 1800 | 460 | 145TC | IEEE2-18-145TC | $1,017.00 | 3.0 | 86.5 | 55 | |
| 3 | 3600 | 460 | 182TC | IEEE3-36-182TC | $1,249.00 | 3.8 | 86.5 | 90 | |
| | 1800 | 460 | 182TC | IEEE3-18-182TC | $1,246.00 | 3.9 | 89.5 | 90 | |
| 5 | 3600 | 460 | 184TC | IEEE5-36-184TC | $1,398.00 | 6.1 | 88.5 | 105 | |
| | 1800 | 460 | 184TC | IEEE5-18-184TC | $1,416.00 | 6.5 | 89.5 | 105 | |
| 7.5 | 3600 | 460 | 213TC | IEEE7.5-36-213TC | $1,731.00 | 9.0 | 89.5 | 150 | |
| | 1800 | 460 | 213TC | IEEE7.5-18-213TC | $1,743.00 | 9.5 | 91.7 | 150 | |
| 10 | 3600 | 460 | 215TC | IEEE10-36-215TC | $1,894.00 | 12.0 | 90.2 | 165 | |
| | 1800 | 460 | 215TC | IEEE10-18-215TC | $1,924.00 | 12.8 | 91.7 | 165 | |
| 15 | 3600 | 460 | 254TC | IEEE15-36-254TC | $2,684.00 | 16.9 | 91.7 | 260 | |
| | 1800 | 460 | 254TC | IEEE15-18-254TC | $2,617.00 | 18.3 | 92.4 | 260 | |
| 20 | 3600 | 460 | 256TC | IEEE20-36-256TC | $3,146.00 | 23.1 | 91.7 | 300 | |
| | 1800 | 460 | 256TC | IEEE20-18-256TC | $3,059.00 | 24.8 | 93.0 | 300 | |
| 25 | 3600 | 460 | 284TSC | IEEE25-36-284TSC | $3,510.00 | 28.5 | 91.7 | 380 | |
| | 1800 | 460 | 284TC | IEEE25-18-284TC | $3,624.00 | 30.3 | 93.6 | 380 | |
| 30 | 3600 | 460 | 286TSC | IEEE30-36-286TSC | $3,709.00 | 33.8 | 91.7 | 410 | |
| | 1800 | 460 | 286TC | IEEE30-18-286TC | $4,069.00 | 36.0 | 93.6 | 410 | |
| 40 | 3600 | 460 | 324TSC | IEEE40-36-324TSC | $5,234.00 | 45.5 | 92.4 | 550 | |
| | 1800 | 460 | 324TC | IEEE40-18-324TC | $5,113.00 | 48.8 | 94.1 | 550 | |
| 50 | 3600 | 460 | 326TSC | IEEE50-36-326TSC | $5,899.00 | 55.8 | 93.0 | 560 | |
| | 1800 | 460 | 326TC | IEEE50-18-326TC | $5,999.00 | 59.9 | 94.5 | 560 | |
| 60 | 1800 | 460 | 364TC | IEEE60-18-364TC | $9,998.00 | 69.9 | 95.0 | 780 | |
| 75 | 1800 | 460 | 365TC | IEEE75-18-365TC | $10,324.00 | 85.1 | 95.4 | 820 | |
| 100 | 1800 | 460 | 405TC | IEEE100-18-405TC | $14,263.00 | 114.1 | 95.4 | 1110 | |

Dimensions On Page 125-126

# HYUNDAI CROWN TRITON™ SERIES MOTORS EXPLOSION PROOF - PREMIUM EFFICIENCY

## *TEXP Enclosure ▪ Rigid Base*

## *Three-Phase ▪ 208-230/460 and 460 Volt*



### Product Overview

- 1 - 250 HP
- 3600, 1800 and 1200 RPM
- 208-230/460 volt (1 - 125 HP)
- 460 volt (150 - 250 HP)
- TEXP enclosure
- 1.15 service factor
- Class F insulation
- Class B temperature rise
- Rigid base
- Premium Efficiency, meets or exceeds EISA 2007 requirements defined in NEMA MG-1 table 12-12
- 3 year warranty
- NEMA design B
- Cast iron frame and conduit box
- Suitable for part winding start on low voltage (1 - 125 HP)
- Suitable for wye-delta start (15 - 250 HP)
- Unique multiple rating system for 40° and 55°C ambient
  - 143T-215T: T2C at 40°C, T2B at 55°C, T4 when thermostat is connected
  - 254T-286T: T2D at 40°C, T2C at 55°C, T4 when thermostat is connected
  - 324T-444T: T3 at 40°C, T2D at 55°C, T4 when thermostat is connected
  - 445T-449T: T3 at 40°C, T2D at 55°C, T4 when thermostat connected and 1.0 SF
- Class I, Division 1, Groups C & D, UL Certification
- CC # 038A
- CSA Energy Certified

HYUNDAI HEAVY INDUSTRIES CO.,LTD.

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1800 | 208-230/460 | 143T | XHHI1-18-143T | $916.00 | 1.6 | 85.5 | 64 | |
| | 1200 | 208-230/460 | 145T | XHHI1-12-145T | $988.00 | 1.8 | 82.5 | 66 | |
| 1.5 | 3600 | 208-230/460 | 143T | XHHI1.5-36-143T | $961.00 | 2.0 | 84.0 | 64 | |
| | 1800 | 208-230/460 | 145T | XHHI1.5-18-145T | $971.00 | 2.2 | 86.5 | 66 | |
| | 1200 | 208-230/460 | 182T | XHHI1.5-12-182T | $1,210.00 | 2.3 | 87.5 | 112 | |
| 2 | 3600 | 208-230/460 | 145T | XHHI2-36-145T | $1,038.00 | 2.6 | 85.5 | 66 | |
| | 1800 | 208-230/460 | 145T | XHHI2-18-145T | $1,056.00 | 3.0 | 86.5 | 66 | |
| | 1200 | 208-230/460 | 184T | XHHI2-12-184T | $1,474.00 | 3.0 | 88.5 | 121 | |
| 3 | 3600 | 208-230/460 | 182T | XHHI3-36-182T | $1,398.00 | 3.8 | 86.5 | 112 | |
| | 1800 | 208-230/460 | 182T | XHHI3-18-182T | $1,393.00 | 3.9 | 89.5 | 112 | |
| | 1200 | 208-230/460 | 213T | XHHI3-12-213T | $1,850.00 | 4.5 | 89.5 | 160 | |
| 5 | 3600 | 208-230/460 | 184T | XHHI5-36-184T | $1,575.00 | 6.1 | 88.5 | 121 | |
| | 1800 | 208-230/460 | 184T | XHHI5-18-184T | $1,591.00 | 6.5 | 89.5 | 121 | |
| | 1200 | 208-230/460 | 215T | XHHI5-12-215T | $2,296.00 | 7.4 | 89.5 | 180 | |
| 7.5 | 3600 | 208-230/460 | 213T | XHHI7.5-36-213T | $2,050.00 | 9.0 | 89.5 | 160 | |
| | 1800 | 208-230/460 | 213T | XHHI7.5-18-213T | $2,195.00 | 9.5 | 91.7 | 160 | |
| | 1200 | 208-230/460 | 254T | XHHI7.5-12-254T | $2,900.00 | 10.3 | 91.0 | 310 | |
| 10 | 3600 | 208-230/460 | 215T | XHHI10-36-215T | $2,292.00 | 12.0 | 90.2 | 180 | |
| | 1800 | 208-230/460 | 215T | XHHI10-18-215T | $2,341.00 | 12.8 | 91.7 | 180 | |
| | 1200 | 208-230/460 | 256T | XHHI10-12-256T | $3,350.00 | 13.8 | 91.0 | 350 | |
| 15 | 3600 | 208-230/460 | 254T | XHHI15-36-254T | $3,325.00 | 16.9 | 91.7 | 310 | |
| | 1800 | 208-230/460 | 254T | XHHI15-18-254T | $3,195.00 | 18.3 | 92.4 | 310 | |
| | 1200 | 208-230/460 | 284T | XHHI15-12-284T | $4,145.00 | 19.8 | 91.7 | 440 | |
| 20 | 3600 | 208-230/460 | 256T | XHHI20-36-256T | $3,475.00 | 23.1 | 91.7 | 350 | |
| | 1800 | 208-230/460 | 256T | XHHI20-18-256T | $3,395.00 | 24.8 | 93.0 | 350 | |
| | 1200 | 208-230/460 | 286T | XHHI20-12-286T | $4,500.00 | 26.7 | 91.7 | 480 | |

Continued On Next Page
Dimensions On Page 127

# HYUNDAI CROWN TRITON™ SERIES MOTORS
# EXPLOSION PROOF - PREMIUM EFFICIENCY

## *TEXP Enclosure ▪ Rigid Base*
## *Three-Phase ▪ 208-230/460 Volt*

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | 3600 | 208-230/460 | 284TS | XHHI25-36-284TS | $4,085.00 | 28.5 | 91.7 | 440 | |
| 25 | 1800 | 208-230/460 | 284T | XHHI25-18-284T | $4,285.00 | 30.3 | 93.6 | 440 | |
| | 1200 | 208-230/460 | 324T | XHHI25-12-324T | $5,775.00 | 31.2 | 93.0 | 840 | |
| | 3600 | 208-230/460 | 286TS | XHHI30-36-286TS | $4,740.00 | 33.8 | 91.7 | 480 | |
| 30 | 1800 | 208-230/460 | 286T | XHHI30-18-286T | $4,515.00 | 36.0 | 93.6 | 480 | |
| | 1200 | 208-230/460 | 326T | XHHI30-12-326T | $6,310.00 | 37.1 | 93.0 | 820 | |
| | 3600 | 208-230/460 | 324TS | XHHI40-36-324TS | $5,675.00 | 45.5 | 92.4 | 800 | |
| 40 | 1800 | 208-230/460 | 324T | XHHI40-18-324T | $6,000.00 | 48.8 | 94.1 | 820 | |
| | 1200 | 208-230/460 | 364T | XHHI40-12-364T | $9,350.00 | 48.8 | 94.1 | 1113 | |
| | 3600 | 208-230/460 | 326TS | XHHI50-36-326TS | $7,030.00 | 55.8 | 93.0 | 820 | |
| 50 | 1800 | 208-230/460 | 326T | XHHI50-18-326T | $6,998.00 | 59.9 | 94.5 | 840 | |
| | 1200 | 208-230/460 | 365T | XHHI50-12-365T | $10,445.00 | 60.2 | 94.1 | 1173 | |
| | 3600 | 208-230/460 | 364TS | XHHI60-36-364TS | $9,675.00 | 65.6 | 94.1 | 1047 | |
| 60 | 1800 | 208-230/460 | 364T | XHHI60-18-364T | $9,545.00 | 69.9 | 95.0 | 1113 | |
| | 1200 | 208-230/460 | 404T | XHHI60-12-404T | $12,600.00 | 71.2 | 94.5 | 1532 | |
| | 3600 | 208-230/460 | 365TS | XHHI75-36-365TS | $11,010.00 | 79.8 | 94.5 | 1087 | |
| 75 | 1800 | 208-230/460 | 365T | XHHI75-18-365T | $10,500.00 | 85.1 | 95.4 | 1153 | |
| | 1200 | 208-230/460 | 405T | XHHI75-12-405T | $14,250.00 | 87.0 | 94.5 | 1830 | |
| | 3600 | 208-230/460 | 405TS | XHHI100-36-405TS | $13,750.00 | 110.1 | 94.5 | 1852 | |
| 100 | 1800 | 208-230/460 | 405T | XHHI100-18-405TBB | $14,075.00 | 114.1 | 95.4 | 1830 | |
| | 1200 | 208-230/460 | 444T | XHHI100-12-444TBB | $17,750.00 | 116.6 | 95.0 | 2116 | |
| | 3600 | 208-230/460 | 444TS | XHHI125-36-444TS | $16,785.00 | 139.5 | 95.0 | 2006 | |
| 125 | 1800 | 208-230/460 | 444T | XHHI125-18-444TBB | $17,000.00 | 142.0 | 95.4 | 2116 | |
| | 1200 | 208-230/460 | 445T | XHHI125-12-445TBB | $22,150.00 | 147.7 | 95.0 | 2293 | |
| | 3600 | 460 | 445TS | XHHI150-36-445TS | $21,750.00 | 161.5 | 95.0 | 2249 | |
| 150 | 1800 | 460 | 445T | XHHI150-18-445TBB | $24,150.00 | 163.8 | 95.8 | 2293 | |
| | 1200 | 460 | 447T | XHHI150-12-447TBB | $30,500.00 | 169.5 | 95.8 | 2756 | |
| | 3600 | 460 | 447TS | XHHI200-36-447TS | $28,750.00 | 219.3 | 95.4 | 2690 | |
| 200 | 1800 | 460 | 447T | XHHI200-18-447TBB | $28,500.00 | 222.4 | 96.2 | 2756 | |
| | 1200 | 460 | 449T | XHHI200-12-449TBB | $43,750.00 | 231.2 | 95.8 | 3086 | |
| 250 | 3600 | 460 | 449TS | XHHI250-36-449TS | $39,400.00 | 276.6 | 95.8 | 3020 | |
| | 1800 | 460 | 449T | XHHI250-18-449TBB | $39,500.00 | 281.7 | 96.2 | 3086 | |



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# HYUNDAI CROWN TRITON™ SERIES MOTORS
# EXPLOSION PROOF - PREMIUM EFFICIENCY

*TEXP Enclosure ▪ C-Face ▪ Rigid Base*

*Three-Phase ▪ 208-230/460 Volt*






## Product Overview

- 2 - 100 HP, 1800 RPM
- 75 - 100 HP, 3600 RPM
- 208-230/460 volt
- TEXP enclosure
- 1.15 service factor
- Class F insulation
- Class B temperature rise
- C-face - rigid base
- Premium Efficiency, meets or exceeds EISA 2007 requirements defined in NEMA MG-1 table 12-12
- 3 year warranty
- NEMA design B
- Cast iron frame and conduit box
- Suitable for part winding start on low voltage
- Suitable for wye-delta start (15 - 100 HP)
- Unique multiple rating system for 40° and 55°C ambient
  - 143T-215T: T2C at 40°C, T2B at 55°C, T4 when thermostat is connected
  - 254T-286T: T2D at 40°C, T2C at 55°C, T4 when thermostat is connected
  - 324T-444T: T3 at 40°C, T2D at 55°C, T4 when thermostat is connected
  - 445T-449T: T3 at 40°C, T2D at 55°C, T4 when thermostat connected and 1.0 SF
- Class I, Division 1, Groups C & D, UL Certification
- CC # 038A
- CSA Energy Certified

HYUNDAI HEAVY INDUSTRIES CO.,LTD.

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 2 | 1800 | 208-230/460 | 145TC | XHHI2-18-145TC | $1,137.00 | 3.0 | 86.5 | 66 | |
| 3 | 1800 | 208-230/460 | 182TC | XHHI3-18-182TC | $1,510.00 | 3.9 | 89.5 | 112 | |
| 5 | 1800 | 208-230/460 | 184TC | XHHI5-18-184TC | $1,681.00 | 6.5 | 89.5 | 121 | |
| 7.5 | 1800 | 208-230/460 | 213TC | XHHI7.5-18-213TC | $2,375.00 | 9.5 | 91.7 | 160 | |
| 10 | 1800 | 208-230/460 | 215TC | XHHI10-18-215TC | $2,575.00 | 12.8 | 91.7 | 180 | |
| 15 | 1800 | 208-230/460 | 254TC | XHHI15-18-254TC | $3,515.00 | 18.3 | 92.4 | 310 | |
| 20 | 1800 | 208-230/460 | 256TC | XHHI20-18-256TC | $3,610.00 | 24.8 | 93.0 | 350 | |
| 25 | 1800 | 208-230/460 | 284TC | XHHI25-18-284TC | $4,575.00 | 30.3 | 93.6 | 440 | |
| 30 | 1800 | 208-230/460 | 286TC | XHHI30-18-286TC | $4,965.00 | 36.0 | 93.6 | 480 | |
| 40 | 1800 | 208-230/460 | 324TC | XHHI40-18-324TC | $6,450.00 | 48.8 | 94.1 | 820 | |
| 50 | 1800 | 208-230/460 | 326TC | XHHI50-18-326TC | $7,540.00 | 59.9 | 94.5 | 840 | |
| 60 | 1800 | 208-230/460 | 364TC | XHHI60-18-364TC | $9,915.00 | 69.9 | 95.0 | 1113 | |
| 75 | 3600 | 208-230/460 | 365TSC | XHHI75-36-365TSC | $11,650.00 | 79.8 | 94.5 | 1087 | |
| | 1800 | 208-230/460 | 365TC | XHHI75-18-365TC | $11,225.00 | 85.1 | 95.4 | 1153 | |
| 100 | 3600 | 208-230/460 | 405TSC | XHHI100-36-405TSC | $14,525.00 | 110.1 | 94.5 | 1852 | |
| | 1800 | 208-230/460 | 405TC | XHHI100-18-405TC | $15,250.00 | 114.1 | 95.4 | 1830 | |

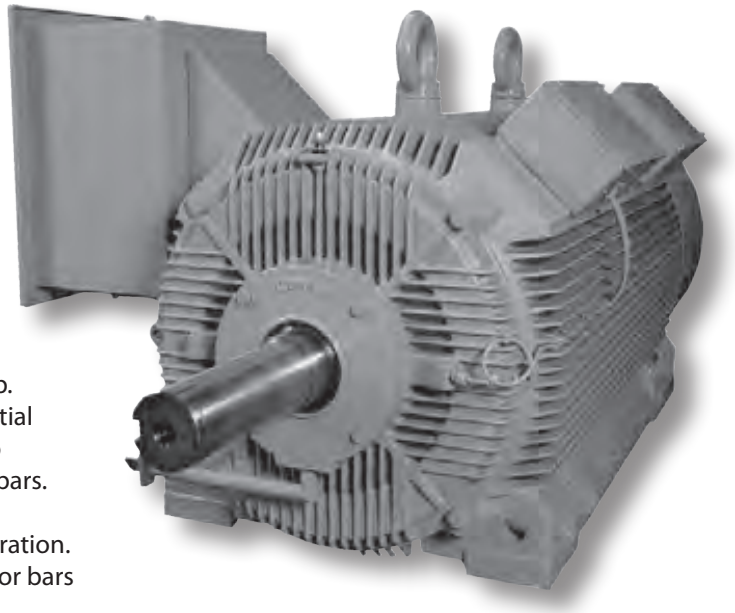
Dimensions On Page 128-129

# HYUNDAI MEDIUM VOLTAGE MOTORS
# PREMIUM EFFICIENCY

*TEFC Enclosure*

*Three-Phase ▪ 2300/4160 Volt*

## Stock Motor Highlights



- Heavy duty cast iron construction.
- Premium efficient designs.
- Copper bar rotor for every rating.
- Induction brazed end rings.
  The end ring (connector) is the means of connecting all the copper rotor bars of the rotor assembly. Induction brazing is the preferred method of brazing, as it heats the entire end connector at one time, allowing the brazing action to be completed in one step. This method ensures a better weld and limits the potential of cracked welds and ring distortion when compared to the heating, cooling and reheating of each of the rotor bars.
- Swagged rotor bars for reliability, low noise and low vibration. This is an extra step Hyundai uses to ensure that the rotor bars are tight within the rotor laminations.
- Low noise design, 85 dB(A) no load at 1 meter.
- Oversized conduit box allows plenty of room for connections.
- Inverter rated for 2:1 constant torque and 20:1 variable torque applications when the service factor is derated to 1.0.
- Class F insulation - Vacuum Pressure Impregnation.
- Premium bearings - SKF, NSK or FAG.
- Includes 100 ohm stator RTDs and 120 volt space heaters.
- A premium motor for a price that is less than the competitor's standard offering.
- Direct coupled and belted applications ready for shipment in our warehouses.
- Flexible mounting options
  with multiple 2F dimensions on NEMA frames. All motors have at least two 2F dimensions. This allows more flexibility when trying to match existing bases.

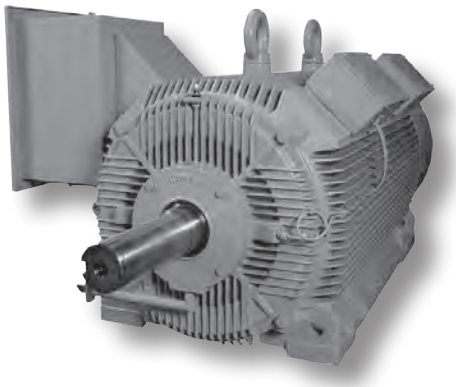
HYUNDAI HEAVY INDUSTRIES CO.,LTD.

| WWE Stock Motor Frame | Multiple 2F Matches These Frames | Dimensions Of 2F Holes Supplied |
|---|---|---|
| 5007 | 5007 / 5008 | 22" / 25" |
| 5008 | 5007 / 5008 | 22" / 25" |
| 5009 | 5009 / 5010 / 5011 | 28" / 32" / 36" |
| 5010 | 5009 / 5010 / 5011 | 28" / 32" / 36" |
| 5011 | 5009 / 5010 / 5011 | 28" / 32" / 36" |
| 5811 | 5811 / 5812 | 40" / 45" |
| 5812 | 5811 / 5812 | 40" / 45" |
| 6809 | 6809 / 6810 | 40" / 45" |
| 6810 | 6809 / 6810 | 40" / 45" |

Continued On Next Page

# HYUNDAI MEDIUM VOLTAGE MOTORS
# PREMIUM EFFICIENCY

## *TEFC Enclosure*
## *Three-Phase ▪ 2300/4160 Volt*



HYUNDAI
HEAVY INDUSTRIES CO.,LTD.

### Product Overview

- 350 - 1250 HP
- 3600, 1800, 1200 and 900 RPM
- Dual voltage 2300/4160
- TEFC enclosure, cast iron construction
- NEMA design B, continuous duty
- Form wound stator coils
- Class F insulation - Vacuum Pressure Impregnation
- Class B temperature rise unless otherwise noted
- Copper bar rotor
- 1.15 service factor
- Maximum 40°C ambient temperature
- 100 ohm platinum stator RTDs (2 per phase)
- 120 volt space heaters
- Frame grounding provisions, ground lug in main terminal box
- Multiple 2F mounting holes
- 18/24 month warranty
- Tapped holes for vertical jackscrews
- VFD rated when using 1.0 service factor
- Oversized main terminal box with stress relief
- Bi-directional for 1800, 1200 and 900 RPM ratings
- 85 dBA at 1 meter



| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 350 | 3600 | 2300/4160 | 5007 | HT350-36-5007 | $57,235.00 | 42.4 | 94.0 | 4040 | |
| | 1800 | 2300/4160 | 5007 | HT350-18-5007 | $56,495.00 | 44.4 | 93.8 | 4020 | |
| | 1800 | 2300/4160 | 5007 | HT350-18-5007RB | $56,495.00 | 44.4 | 93.8 | 4020 | RB |
| | 1200 | 2300/4160 | 5009 | HT350-12-5009 | $63,438.00 | 49.4 | 94.0 | 4740 | |
| | 1200 | 2300/4160 | 5009 | HT350-12-5009RB | $63,438.00 | 49.4 | 94.0 | 4740 | RB |
| | 900 | 2300/4160 | 5811 | HT350-9-5811RB | $82,777.00 | 50.1 | 94.0 | 6590 | RB |
| 400 | 3600 | 2300/4160 | 5007 | HT400F-36-5007 | $57,235.00 | 48.4 | 94.0 | 4040 | F |
| | 3600 | 2300/4160 | 5009 | HT400-36-5009 | $61,862.00 | 48.3 | 94.3 | 4740 | |
| | 1800 | 2300/4160 | 5007 | HT400F-18-5007 | $56,495.00 | 50.7 | 93.8 | 4020 | F |
| | 1800 | 2300/4160 | 5007 | HT400F-18-5007RB | $56,495.00 | 50.7 | 93.8 | 4020 | F,RB |
| | 1800 | 2300/4160 | 5008 | HT400-18-5008 | $61,332.00 | 50.6 | 94.0 | 4240 | |
| | 1800 | 2300/4160 | 5008 | HT400-18-5008RB | $61,332.00 | 50.6 | 94.0 | 4240 | RB |
| | 1200 | 2300/4160 | 5009 | HT400F-12-5009 | $63,438.00 | 56.7 | 93.7 | 4740 | F |
| | 1200 | 2300/4160 | 5009 | HT400F-12-5009RB | $63,438.00 | 56.7 | 93.7 | 4740 | F,RB |
| | 1200 | 2300/4160 | 5010 | HT400-12-5010 | $69,692.00 | 54.8 | 94.5 | 5030 | |
| | 1200 | 2300/4160 | 5010 | HT400-12-5010RB | $69,692.00 | 54.8 | 94.5 | 5030 | RB |
| | 900 | 2300/4160 | 5811 | HT400F-9-5811RB | $82,777.00 | — | — | — | F,RB |
| | 900 | 2300/4160 | 5811 | HT400-9-5811RB | $93,922.00 | 57.2 | 94.1 | 6590 | RB |
| 450 | 3600 | 2300/4160 | 5009 | HT450F-36-5009 | $61,862.00 | 54.3 | 94.3 | 4740 | F |
| | 3600 | 2300/4160 | 5011 | HT450-36-5011 | $73,608.00 | 53.7 | 94.3 | 5120 | |
| | 1800 | 2300/4160 | 5008 | HT450F-18-5008 | $61,332.00 | 57.0 | 94.0 | 4240 | F |
| | 1800 | 2300/4160 | 5008 | HT450F-18-5008RB | $61,332.00 | 57.0 | 94.0 | 4240 | F,RB |
| | 1800 | 2300/4160 | 5009 | HT450-18-5009 | $66,890.00 | 56.8 | 94.3 | 4740 | |
| | 1800 | 2300/4160 | 5009 | HT450-18-5009RB | $66,890.00 | 56.8 | 94.3 | 4740 | RB |
| | 1200 | 2300/4160 | 5010 | HT450F-12-5010 | $69,692.00 | 61.3 | 93.8 | 5030 | F |
| | 1200 | 2300/4160 | 5010 | HT450F-12-5010RB | $69,692.00 | 61.3 | 93.8 | 5030 | F,RB |
| | 1200 | 2300/4160 | 5011 | HT450-12-5011 | $80,645.00 | 62.4 | 94.5 | 5190 | |
| | 1200 | 2300/4160 | 5011 | HT450-12-5011RB | $80,645.00 | 62.4 | 94.5 | 5190 | RB |
| | 900 | 2300/4160 | 5811 | HT450F-9-5811RB | $93,922.00 | — | — | — | F,RB |
| | 900 | 2300/4160 | 5812 | HT450-9-5812RB | $99,811.00 | 63.4 | 94.2 | 7050 | RB |

F Class F temperature rise
RB Roller bearing on drive-end for belted applications

Continued On Next Page

# HYUNDAI MEDIUM VOLTAGE MOTORS
# PREMIUM EFFICIENCY

## *TEFC Enclosure*

## *Three-Phase ▪ 2300/4160 Volt*

| HP | RPM | Voltage | Frame | Model Number | List Price | FL Amps (A) | FL Eff. (%) | Approx. Wt. (lbs.) | Notes |
|---|---|---|---|---|---|---|---|---|---|
| 500 | 3600 | 2300/4160 | 5011 | HT500F-36-5011 | $73,608.00 | 59.7 | 94.3 | 5120 | F |
| | 3600 | 2300/4160 | 5811 | HT500-36-5811 | $80,608.00 | 60.4 | 95.2 | 6340 | |
| | 1800 | 2300/4160 | 5009 | HT500F-18-5009 | $66,890.00 | 63.1 | 94.3 | 4740 | F |
| | 1800 | 2300/4160 | 5009 | HT500F-18-5009RB | $66,890.00 | 63.1 | 94.3 | 4740 | F,RB |
| | 1800 | 2300/4160 | 5011 | HT500-18-5011 | $77,573.00 | 62.0 | 94.9 | 5190 | |
| | 1800 | 2300/4160 | 5011 | HT500-18-5011RB | $77,573.00 | 62.0 | 94.9 | 5190 | RB |
| | 1200 | 2300/4160 | 5011 | HT500F-12-5011 | $80,645.00 | 68.8 | 94.0 | 5190 | F |
| | 1200 | 2300/4160 | 5011 | HT500F-12-5011RB | $80,645.00 | 68.8 | 94.0 | 5190 | F,RB |
| | 1200 | 2300/4160 | 5811 | HT500-12-5811 | $92,454.00 | 67.6 | 94.8 | 6590 | |
| | 1200 | 2300/4160 | 5811 | HT500-12-5811RB | $92,454.00 | 67.6 | 94.8 | 6590 | RB |
| | 900 | 2300/4160 | 5812 | HT500F-9-5812RB | $99,811.00 | — | — | — | F,RB |
| | 900 | 2300/4160 | 6809 | HT500-9-6809RB | $123,376.00 | — | — | — | RB |
| 600 | 3600 | 2300/4160 | 5811 | HT600F-36-5811 | $80,608.00 | 72.5 | 95.2 | 6340 | F |
| | 3600 | 2300/4160 | 5812 | HT600-36-5812 | $89,689.00 | 72.7 | 95.8 | 6810 | |
| | 1800 | 2300/4160 | 5011 | HT600F-18-5011 | $77,573.00 | 74.4 | 94.9 | 5190 | F |
| | 1800 | 2300/4160 | 5011 | HT600F-18-5011RB | $77,573.00 | 74.4 | 94.9 | 5190 | F,RB |
| | 1800 | 2300/4160 | 5811 | HT600-18-5811 | $93,987.00 | 75.6 | 95.5 | 6590 | |
| | 1800 | 2300/4160 | 5811 | HT600-18-5811RB | $93,987.00 | 75.6 | 95.5 | 6590 | RB |
| | 1200 | 2300/4160 | 5811 | HT600F-12-5811 | $92,454.00 | 79.9 | 94.8 | 6590 | F |
| | 1200 | 2300/4160 | 5811 | HT600F-12-5811RB | $92,454.00 | 79.9 | 94.8 | 6590 | F,RB |
| | 1200 | 2300/4160 | 5812 | HT600-12-5812 | $107,927.00 | 80.7 | 95.3 | 7050 | |
| | 1200 | 2300/4160 | 5812 | HT600-12-5812RB | $107,927.00 | 80.7 | 95.3 | 7050 | RB |
| | 900 | 2300/4160 | 6809 | HT600F-9-6809RB | $123,376.00 | — | — | — | F,RB |
| | 900 | 2300/4160 | 6810 | HT600-9-6810RB | $131,354.00 | — | — | — | RB |
| 700 | 3600 | 2300/4160 | 5812 | HT700F-36-5812 | $89,689.00 | 84.1 | 95.8 | 6810 | F |
| | 3600 | 2300/4160 | 6809 | HT700-36-6809 | $93,755.00 | 84.1 | 95.8 | 7936 | |
| | 1800 | 2300/4160 | 5811 | HT700F-18-5811 | $93,987.00 | 87.3 | 95.4 | 6590 | F |
| | 1800 | 2300/4160 | 5811 | HT700F-18-5811RB | $93,987.00 | 87.3 | 95.4 | 6590 | F,RB |
| | 1800 | 2300/4160 | 5812 | HT700-18-5812 | $109,000.00 | 87.7 | 95.8 | 7050 | |
| | 1200 | 2300/4160 | 5812 | HT700F-12-5812 | $107,927.00 | 92.7 | 95.3 | 7050 | F |
| | 1200 | 2300/4160 | 5812 | HT700F-12-5812RB | $107,927.00 | 92.7 | 95.3 | 7050 | F,RB |
| | 1200 | 2300/4160 | 6809 | HT700-12-6809 | $120,426.00 | 94.2 | 95.5 | 8400 | |
| | 900 | 2300/4160 | 6810 | HT700F-9-6810RB | $131,354.00 | — | — | — | F,RB |
| 800 | 3600 | 2300/4160 | 6809 | HT800F-36-6809 | $93,755.00 | 96.1 | 95.8 | 7936 | F |
| | 3600 | 2300/4160 | 6809 | HT800-36-6809 | $129,231.00 | 97.1 | 95.8 | 7936 | ▲ ,‡ |
| | 1800 | 2300/4160 | 5812 | HT800F-18-5812 | $109,000.00 | 99.5 | 95.5 | 7050 | F |
| | 1800 | 2300/4160 | 6809 | HT800-18-6809 | $117,828.00 | 100.8 | 95.7 | 8160 | |
| | 1200 | 2300/4160 | 6809 | HT800F-12-6809 | $120,426.00 | 105.9 | 95.3 | 8400 | F |
| | 1200 | 2300/4160 | 6810 | HT800-12-6810 | $131,579.00 | 106.3 | 95.7 | 8820 | |
| 900 | 3600 | 2300/4160 | 6809 | HT900F-36-6809 | $129,231.00 | 109.3 | 95.6 | 7936 | F ,‡ |
| | 1800 | 2300/4160 | 6809 | HT900F-18-6809 | $117,828.00 | 113.5 | 95.5 | 8160 | F |
| | 1800 | 2300/4160 | 6810 | HT900-18-6810 | $124,467.00 | 112.2 | 95.9 | 8580 | |
| | 1200 | 2300/4160 | 6810 | HT900F-12-6810 | $131,579.00 | 116.4 | 95.3 | 8820 | F |
| 1000 | 1800 | 2300/4160 | 6810 | HT1000F-18-6810 | $124,467.00 | 124.5 | 95.6 | 8580 | F |
| | 1800 | 2300/4160 | 6810 | HT1000-18-6810 | $127,251.00 | 124.6 | 96.0 | 8580 | |
| | 1200 | 2300/4160 | 454 | HT1000-12-454 | $150,737.00 | — | — | — | |
| 1200 | 1800 | 2300/4160 | 6810 | HT1200F-18-6810 | $127,251.00 | — | — | — | F |
| | 1200 | 2300/4160 | 454 | HT1200F-12-454 | $150,737.00 | — | — | — | F |
| 1250 | 1800 | 2300/4160 | 454 | HT1250-18-454 | $152,533.00 | — | — | — | |

F Class F temperature rise
RB Roller bearing on drive-end for belted applications
▲ 1.0 service factor
‡ Not rated for VFD applications

# MOTOR ACCESSORIES / PARTS
# WORLDWIDE MOTOR SLIDE BASES




## Product Overview

- Bases are provided with washers
- Bases are painted with an oven-baked primer for better contact of customer's paint
- All "D" bolts (motor mounting bolts) are welded into position to prevent spinning and "dropping" from slots
- All "D" bolts are fixed to the exact foot pattern of the motor to aid in easier motor installation
- Exact drop-in replacement for all major make slide bases
- Single adjusting screws for frames 56-145T
- Double adjusting screws for frames 182T-505T

| Frame | Model Number | List Price | Approx. Wt. (lbs.) |
|---|---|---|---|
| 56 | W56 | $18.36 | 3 |
| 143T | W143T | $35.34 | 6 |
| 145T | W145T | $35.34 | 7 |
| 182T | W182T | $48.07 | 10 |
| 184T | W184T | $48.07 | 10 |
| 213T | W213T | $71.52 | 15 |
| 215T | W215T | $71.52 | 17 |
| 254T | W254T | $97.41 | 19 |
| 256T | W256T | $97.41 | 20 |
| 284T | W284T | $109.55 | 24 |
| 286T | W286T | $109.55 | 25 |
| 324T | W324T | $159.39 | 35 |
| 326T | W326T | $159.39 | 36 |
| 364T | W364T | $221.85 | 49 |
| 365T | W365T | $221.85 | 50 |
| 404T | W404T | $271.76 | 66 |
| 405T | W405T | $271.76 | 68 |
| 444T | W444T | $307.06 | 74 |
| 445T | W445T | $307.06 | 76 |
| 447T | W447T | $406.15 | 102 |
| 449T | W449T | $406.15 | 105 |
| 505T | W505T | $630.99 | 137 |



Dimensions On Page 130

# MOTOR ACCESSORIES / PARTS
# WORLDWIDE FRACTIONAL HP MOTORS
## *General Purpose Motors*

| Model Number | Capacitor | | Capacitor Cover | Centrifugal Switch | Endbell | | Fan | Fan Cover | Junction Box | Overload | Removable Base |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Start | Run | | | DE | ODE | | | | | |
| List Price | $16.88 | $16.88 | $6.76 | $16.88 | $16.88 | $16.88 | $6.76 | $8.44 | $8.44 | $15.24 | $15.24 |
| AT13-18-56 | — | — | — | — | FEBELL56TE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | — |
| AT12-18-56 | — | — | — | — | FEBELL56TE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | — |
| AT34-18-56 | — | — | — | — | FEBELL56TE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | — |
| AT1-18-56 | — | — | — | — | FEBELL56TE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | — |
| AT1.5-18-56 | — | — | — | — | FEBELL56TE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | — |
| AT2-18-56 | — | — | — | — | FEBELL56TE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | — |
| AT13-18-575-56 | — | — | — | — | FEBELL56TE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | — |
| AT12-18-575-56 | — | — | — | — | FEBELL56TE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | — |
| AT34-18-575-56 | — | — | — | — | FEBELL56TE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | — |
| AT1-18-575-56 | — | — | — | — | FEBELL56TE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | — |
| AT1.5-18-575-56 | — | — | — | — | FEBELL56TE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | — |
| AT2-18-575-56 | — | — | — | — | FEBELL56TE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | — |
| T13-18-56CB-OL | SCFM13 | — | CCOVER56 | CSWITCHFM | FEBELL56CTE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | MPROT13 | RBASE56C |
| T12-18-56CB-OL | SCFM12 | — | CCOVER56 | CSWITCHFM | FEBELL56CTE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | MPROT12 | RBASE56C |
| T34-18-56CB-OL | SCFM34 | — | CCOVER56 | CSWITCHFM | FEBELL56CTE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | MPROT34 | RBASE56C |
| T1-18-56CB-OL | SCFM1 | — | CCOVER56 | CSWITCHFM | FEBELL56CTE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | MPROT1 | RBASE56C |
| T1.5-18-56CB-OL | SCFM1.5 | RCFM1.5 | CCOVER56 | CSWITCHFM | FEBELL56CTE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | MPROT1.5 | RBASE56C |
| T2-18-56CB-OL | SCFM2 | RCFM2 | CCOVER56 | CSWITCHFM | FEBELL56CTE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | MPROT2 | RBASE56C |
| TJ13-36-56CB-NOL | SCTJ13 | — | CCOVER56 | CSWITCHJ | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| T13-18-56CB | SCFM13 | — | CCOVER56 | CSWITCHFM | FEBELL56CTE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| TJ12-36-56CB-NOL | SCTJ12 | — | CCOVER56 | CSWITCHJ | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| T12-18-56CB | SCFM12 | — | CCOVER56 | CSWITCHFM | FEBELL56CTE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| TJ34-36-56CB-NOL | SCTJ34 | — | CCOVER56 | CSWITCHJ | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| T34-18-56CB | SCFM34 | — | CCOVER56 | CSWITCHFM | FEBELL56CTE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| TJ1-36-56CB-NOL | SCTJ1 | — | CCOVER56 | CSWITCHJ | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| T1-18-56CB | SCFM1 | — | CCOVER56 | CSWITCHFM | FEBELL56CTE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| TJ1.5-36-56CB-NOL | SCTJ1.5 | RCTJ1.5 | CCOVER56 | CSWITCHJ | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| T1.5-18-56CB | SCFM1.5 | RCFM1.5 | CCOVER56 | CSWITCHFM | FEBELL56CTE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| TJ2-36-56CB-NOL | SCTJ2 | RCTJ2 | CCOVER56 | CSWITCHJ | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| T2-18-56CB | SCFM2 | RCFM2 | CCOVER56 | CSWITCHFM | FEBELL56CTE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| ATJ13-36-56CB | — | — | — | — | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| AT13-18-56CB | — | — | — | — | FEBELL56CTE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| ATJ12-36-56CB | — | — | — | — | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| AT12-18-56CB | — | — | — | — | FEBELL56CTE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| ATJ34-36-56CB | — | — | — | — | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| AT34-18-56CB | — | — | — | — | FEBELL56CTE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| ATJ1-36-56CB | — | — | — | — | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| AT1-18-56CB | — | — | — | — | FEBELL56CTE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| ATJ1.5-36-56CB | — | — | — | — | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| AT1.5-18-56CB | — | — | — | — | FEBELL56CTE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| ATJ2-36-56CB | — | — | — | — | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| AT2-18-56CB | — | — | — | — | FEBELL56CTE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| AT13-18-575-56CB | — | — | — | — | FEBELL56CTE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| AT12-18-575-56CB | — | — | — | — | FEBELL56CTE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| AT34-18-575-56CB | — | — | — | — | FEBELL56CTE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| AT1-18-575-56CB | — | — | — | — | FEBELL56CTE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| AT1.5-18-575-56CB | — | — | — | — | FEBELL56CTE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| AT2-18-575-56CB | — | — | — | — | FEBELL56CTE | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |

# MOTOR ACCESSORIES / PARTS
# WORLDWIDE FRACTIONAL HP MOTORS
## *Stainless Steel / Washdown Duty Motors*

| Model Number | Fan | Fan Cover | Junction Box | Key | Oil Seal | Slinger | Stainless Steel Cord Connector |
|---|---|---|---|---|---|---|---|
| List Price | $6.50 | $66.00 | $44.70 | $1.70 | $1.90 | $1.30 | $78.00 |
| WSSNV13-18-56CB | — | — | SSJBOX | SSKEY | SSOILSEAL | SSSLINGER | SSCC |
| WSSNV12-18-56CB | — | — | SSJBOX | SSKEY | SSOILSEAL | SSSLINGER | SSCC |
| WSSNV34-18-56CB | — | — | SSJBOX | SSKEY | SSOILSEAL | SSSLINGER | SSCC |
| WSSNV1-18-56CB | — | — | SSJBOX | SSKEY | SSOILSEAL | SSSLINGER | SSCC |
| WSSNV13-18-56CRD | — | — | SSJBOX | SSKEY | SSOILSEAL | SSSLINGER | SSCC |
| WSSNV12-18-56CRD | — | — | SSJBOX | SSKEY | SSOILSEAL | SSSLINGER | SSCC |
| WSSNV34-18-56CRD | — | — | SSJBOX | SSKEY | SSOILSEAL | SSSLINGER | SSCC |
| WSSNV1-18-56CRD | — | — | SSJBOX | SSKEY | SSOILSEAL | SSSLINGER | SSCC |
| WSS13-18-56CB | SSFAN | SSFCOVER | SSJBOX | SSKEY | SSOILSEAL | SSSLINGER | SSCC |
| WSS12-36-56CB | SSFAN | SSFCOVER | SSJBOX | SSKEY | SSOILSEAL | SSSLINGER | SSCC |
| WSS12-18-56CB | SSFAN | SSFCOVER | SSJBOX | SSKEY | SSOILSEAL | SSSLINGER | SSCC |
| WSS34-36-56CB | SSFAN | SSFCOVER | SSJBOX | SSKEY | SSOILSEAL | SSSLINGER | SSCC |
| WSS34-18-56CB | SSFAN | SSFCOVER | SSJBOX | SSKEY | SSOILSEAL | SSSLINGER | SSCC |
| WSS1-36-56CB | SSFAN | SSFCOVER | SSJBOX | SSKEY | SSOILSEAL | SSSLINGER | SSCC |
| WSS1-18-56CB | SSFAN | SSFCOVER | SSJBOX | SSKEY | SSOILSEAL | SSSLINGER | SSCC |
| WSS1.5-36-56CB | SSFAN | SSFCOVER | SSJBOX | SSKEY | SSOILSEAL | SSSLINGER | SSCC |
| WSS1.5-18-56CB | SSFAN | SSFCOVER | SSJBOX | SSKEY | SSOILSEAL | SSSLINGER | SSCC |
| WSS2-36-56CB | SSFAN | SSFCOVER | SSJBOX | SSKEY | SSOILSEAL | SSSLINGER | SSCC |
| WSS2-18-56CB | SSFAN | SSFCOVER | SSJBOX | SSKEY | SSOILSEAL | SSSLINGER | SSCC |
| WSS13-18-56CRD | SSFAN | SSFCOVER | SSJBOX | SSKEY | SSOILSEAL | SSSLINGER | SSCC |
| WSS12-18-56CRD | SSFAN | SSFCOVER | SSJBOX | SSKEY | SSOILSEAL | SSSLINGER | SSCC |
| WSS34-18-56CRD | SSFAN | SSFCOVER | SSJBOX | SSKEY | SSOILSEAL | SSSLINGER | SSCC |
| WSS1-18-56CRD | SSFAN | SSFCOVER | SSJBOX | SSKEY | SSOILSEAL | SSSLINGER | SSCC |
| WSS1.5-18-56CRD | SSFAN | SSFCOVER | SSJBOX | SSKEY | SSOILSEAL | SSSLINGER | SSCC |
| WSS2-18-56CRD | SSFAN | SSFCOVER | SSJBOX | SSKEY | SSOILSEAL | SSSLINGER | SSCC |

# MOTOR ACCESSORIES / PARTS
# WORLDWIDE FRACTIONAL HP MOTORS
## *Jet Pump Motors*

| Model Number | Capacitor | | Capacitor Cover | Centrifugal Switch | Endbell | | Fan | Fan Cover | Junction Box | Overload | Removable Base |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Start | Run | | | DE | ODE | | | | | |
| List Price | $16.88 | $16.88 | $6.76 | $16.88 | $16.88 | $16.88 | $6.76 | $8.44 | $8.44 | $15.24 | $15.24 |
| TJ13-36-56CB-NOL | SCTJ13 | — | CCOVER56 | CSWITCHJ | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| TJ13-36-56JB | SCTJ13 | — | CCOVER56 | CSWITCHTJ | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | PROTJ13 | RBASE56C |
| TJ12-36-56CB-NOL | SCTJ12 | — | CCOVER56 | CSWITCHJ | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| TJ12-36-56JB | SCTJ12 | — | CCOVER56 | CSWITCHTJ | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | PROTJ12 | RBASE56C |
| TJ34-36-56CB-NOL | SCTJ34 | — | CCOVER56 | CSWITCHJ | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| TJ34-36-56JB | SCTJ34 | — | CCOVER56 | CSWITCHTJ | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | PROTJ34 | RBASE56C |
| TJ1-36-56CB-NOL | SCTJ1 | — | CCOVER56 | CSWITCHJ | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| TJ1-36-56JB | SCTJ1 | — | CCOVER56 | CSWITCHTJ | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | PROTJ1 | RBASE56C |
| TJ1.5-36-56CB-NOL | SCTJ1.5 | RCTJ1.5 | CCOVER56 | CSWITCHJ | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| TJ1.5-36-56JB | SCTJ1.5 | RCTJ1.5 | CCOVER56 | CSWITCHTJ | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | PROTJ1.5 | RBASE56C |
| TJ2-36-56CB-NOL | SCTJ2 | RCTJ2 | CCOVER56 | CSWITCHJ | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| TJ2-36-56JB | SCTJ2 | RCTJ2 | CCOVER56 | CSWITCHTJ | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | PROTJ2 | RBASE56C |
| ATJ13-36-56CB | — | — | — | — | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| ATJ13-36-56JB | — | — | — | — | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| ATJ12-36-56CB | — | — | — | — | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| ATJ12-36-56JB | — | — | — | — | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| ATJ34-36-56CB | — | — | — | — | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| ATJ34-36-56JB | — | — | — | — | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| ATJ1-36-56CB | — | — | — | — | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| ATJ1-36-56JB | — | — | — | — | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| ATJ1.5-36-56CB | — | — | — | — | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| ATJ1.5-36-56JB | — | — | — | — | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| ATJ2-36-56CB | — | — | — | — | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |
| ATJ2-36-56JB | — | — | — | — | FEBELL56CTE-B | REBELL56TE | FAN56TEFC | FCOVER56TE | TBOX56 | — | RBASE56C |

# MOTOR ACCESSORIES / PARTS
# WORLDWIDE FRACTIONAL HP MOTORS
## *Resilient (Cradle) Base Motors*

| Model Number | Capacitor | | Capacitor Cover | Centrifugal Switch | Endbell | | Fan | Fan Cover | Junction Box | Overload | Removable Base |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Start | Run | | | DE | ODE | | | | | |
| List Price | $16.88 | $16.88 | $6.76 | $16.88 | $16.88 | $16.88 | $6.76 | $8.44 | $8.44 | $15.24 | $15.24 |
| R13-18-56-NOL | SCR13 | — | CCOVER48 | CSWITCHJ | FEBELL48DP | REBELL48DP | FAN48DP | — | — | — | — |
| R12-18-56-NOL | SCR12 | — | CCOVER48 | CSWITCHJ | FEBELL48DP | REBELL48DP | FAN48DP | — | — | — | — |
| R34-18-56-NOL | SCR34 | — | CCOVER48 | CSWITCHJ | FEBELL48DP | REBELL48DP | FAN48DP | — | — | — | — |
| R1-18-56-NOL | SCR1 | — | CCOVER56 | CSWITCHR1 | FEBELL56DP-A | REBELL56DP-A | FAN56DP-A | — | — | — | — |

# MOTOR ACCESSORIES / PARTS
# WORLDWIDE FRACTIONAL HP MOTORS
## *Compressor Duty Motors*

| Model Number | Capacitor | | Capacitor Cover | Centrifugal Switch | Endbell | | Fan | Fan Cover | Junction Box | Overload | Removable Base |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Start | Run | | | DE | ODE | | | | | |
| List Price | $16.88 | $16.88 | $6.76 | $16.88 | $16.88 | $16.88 | $6.76 | $8.44 | $8.44 | $15.24 | $15.24 |
| CM2-36-56 | SCCM2 | RCCM2 | CCOVER56 | CSWITCHCM2 | FEBELL56DP | REBELL56DP | FAN56DP | — | — | PROCM2 | — |
| CM5-36-56 | SCCM5 | RCCM5 | CCOVER56 | CSWITCHCM5 | FEBELL56DP | REBELL56DP | FAN56DP | — | — | PROCM5 | — |

# MOTOR ACCESSORIES / PARTS
# WORLDWIDE FRACTIONAL HP MOTORS
## *Permanent Magnet DC Motors*
## *Variable Speed DC Controls*





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## Product Overview

- Dual voltage - 120/240 VAC, 50/60 hz
- Adjustable horsepower settings
- Barrier terminal strip
- Packaged bridge supply (fullwave)
- 1% speed regulation with armature voltage feedback; ± 1/2% with tach feedback
- Adjustable minimum speed (0-30% of max.)
- Adjustable maximum speed (66-110% of base)
- Adjustable IR compensation
- Adjustable linear acceleration (0.5-8 sec.)
- Adjustable current limit to 15 amps
- Line voltage compensation
- 5K ohm speed potentiometer with leads, knob and dial included
- Power on / off switch
- 50:1 speed range
- Overload capacity: 150% for one minute
- Transient voltage protection
- Voltage following mode or DC tachometer follower by supplying underground analog input signal (0-12 VDC)
- DC tachometer feedback (6 V at base speed)
- Inhibit circuit - permits start and stop without breaking AC lines
- Remote start/stop via pot circuit or inhibit circuit
- Shunt field supply provided (1 amp max.; 100 V for 120 VAC; 200 V for 240 VAC input)
- AC line fuse
- Rated NEMA 4/12 with threaded conduit holes

## Non-Reversing (ON / OFF)

| Single-Phase Input | Output | HP Range | Model Number | List Price |
|---|---|---|---|---|
| 120 VAC | 0-90 VDC | 1/8 - 1.0 | WDCCONT | $405.96 |
| 240 VAC | 0-180 VDC | 1/4 - 2.0 | WDCCONT | $405.96 |

## Reversing (FORWARD / OFF / REVERSE)

| Single-Phase Input | Output | HP Range | Model Number | List Price |
|---|---|---|---|---|
| 120 VAC | 0-90 VDC | 1/8 - 1.0 | WDCCONTREV | $616.21 |
| 240 VAC | 0-180 VDC | 1/4 - 2.0 | WDCCONTREV | $616.21 |

# MOTOR ACCESSORIES / PARTS
# WORLDWIDE FRACTIONAL HP MOTORS
## *Permanent Magnet DC Motors*

| HP | Model Number | | Description | List Price |
|---|---|---|---|---|
| BRUSH & BRUSH SPRINGS (SOLD AS A SET) | | | | |
| 1/4 - 1 HP, 90 Volt (56C) | DCBRBRS1 | (0.27 W x 0.7 H) | BRUSH & BRUSH SPRINGS FOR DC MOTOR FRAME 56C - 1/4 - 1 HP, 90 Volt | $9.00 |
| 1.5 HP, 90 Volt (56C) | DCBRBRS3 | (0.35 W x 0.63 H) | BRUSH & BRUSH SPRINGS FOR DC MOTOR FRAME 56C - 1.5 HP, 90 Volt | $11.50 |
| 1/3 - 1.5 HP, 180 Volt (56C) | DCBRBRS1 | (0.27 W x 0.7 H) | BRUSH & BRUSH SPRINGS FOR DC MOTOR FRAME 56C - 1/3 - 1.5 HP, 180 Volt | $9.00 |
| 2 HP, 180 Volt (56C) | DCBRBRS2 | (0.49 W x 0.7 H) | BRUSH & BRUSH SPRINGS FOR DC MOTOR FRAME 56C - 2 HP, 180 Volt | $11.50 |
| 1.5 - 2 HP, 180 Volt (145TC) | DCBRBRS2 | (0.49 W x 0.7 H) | BRUSH & BRUSH SPRINGS FOR DC MOTOR FRAME 145TC - 1.5 - 2 HP, 180 Volt | $11.50 |
| 1/3 - 1 HP, 12 Volt (56C) | DCBRBRS4 | (0.33 W x 0.76 H) | BRUSH & BRUSH SPRINGS FOR DC MOTOR FRAME 56C - 1/3 - 1 HP, 12 Volt | $26.00 |
| 1/3 - 1/2 HP, 24 Volt (56C) | DCBRBRS1 | (0.27 W x 0.7 H) | BRUSH & BRUSH SPRINGS FOR DC MOTOR FRAME 56C - 1/3 - 1/2 HP, 24 Volt | $9.00 |
| 3/4 - 1.5 HP, 24 Volt (56C) | DCBRBRS2 | (0.33 W x 0.76 H) | BRUSH & BRUSH SPRINGS FOR DC MOTOR FRAME 56C - 3/4 - 1.5 HP, 24 Volt | $11.50 |
| BRUSH CAPS | | | | |
| 1/4 - 1 HP (56C) | DCBCAP1 | | BRUSH CAP FOR DC MOTOR FRAME 56C - 1/4 - 1 HP | $2.20 |
| 1.5 - 2 HP (56C) | DCBCAP2 | | BRUSH CAP FOR DC MOTOR FRAME 56C - 1.5 - 2 HP | $2.70 |
| 1.5 - 2 HP (145TC) | DCBCAP2 | | BRUSH CAP FOR DC MOTOR FRAME 145TC - 1.5 - 2 HP | $2.70 |
| ENDBELLS - DRIVE-END | | | | |
| 1/4 - 1 HP (56C) | DCDEEB1 | | DRIVE-END ENDBELL FOR DC MOTOR FRAME 56C - 1/4 - 1 HP | $51.50 |
| 1.5 - 2 HP (56C) | DCDEEB2 | | DRIVE-END ENDBELL FOR DC MOTOR FRAME 56C - 1.5 - 2 HP | $93.00 |
| 1.5 - 2 HP (145TC) | DCDEEB2 | | DRIVE-END ENDBELL FOR DC MOTOR FRAME 145TC - 1.5 - 2 HP | $93.00 |
| ENDBELLS - OPPOSITE DRIVE-END | | | | |
| 1/4 - 1 HP (56C) | DCODEEB1 | | OPPOSITE DRIVE-END ENDBELL FOR DC MOTOR FRAME 56C - 1/4 - 1 HP | $36.80 |
| 1.5 - 2 HP (56C) | DCODEEB2 | | OPPOSITE DRIVE-END ENDBELL FOR DC MOTOR FRAME 56C - 1.5 - 2 HP | $76.00 |
| 1.5 - 2 HP (145TC) | DCODEEB2 | | OPPOSITE DRIVE-END ENDBELL FOR DC MOTOR FRAME 145TC - 1.5 - 2 HP | $76.00 |
| FANS | | | | |
| 1/4 - 1 HP (56C) | DCFAN1 | | FAN FOR DC MOTOR FRAME 56C - 1/4 - 1 HP | $5.00 |
| 1.5 - 2 HP (56C) | DCFAN2 | | FAN FOR DC MOTOR FRAME 56C - 1.5 - 2 HP | $6.50 |
| 1.5 - 2 HP (145TC) | DCFAN2 | | FAN FOR DC MOTOR FRAME 145TC - 1.5 - 2 HP | $6.50 |
| FAN COVERS | | | | |
| 1/4 - 1 HP (56C) | DCFCOVER1 | | FAN COVER FOR DC MOTOR FRAME 56C - 1/4 - 1 HP | $9.40 |
| 1.5 - 2 HP (56C) | DCFCOVER2 | | FAN COVER FOR DC MOTOR FRAME 56C - 1.5 - 2 HP | $12.00 |
| 1.5 - 2 HP (145TC) | DCFCOVER2 | | FAN COVER FOR DC MOTOR FRAME 145TC - 1.5 - 2 HP | $12.00 |
| JUNCTION BOXES | | | | |
| 1/4 - 1 HP (56C) | DCJBOX | | JUNCTION BOX FOR DC MOTOR FRAME 56C - 1/4 - 1 HP | $6.10 |
| 1.5 - 2 HP (56C) | DCJBOX | | JUNCTION BOX FOR DC MOTOR FRAME 56C - 1.5 - 2 HP | $6.10 |
| 1.5 - 2 HP (145TC) | DCJBOX | | JUNCTION BOX FOR DC MOTOR FRAME 145TC - 1.5 - 2 HP | $6.10 |
| REMOVABLE BASES | | | | |
| 1/4 - 1.5 HP (56C) | DCBASE1 | | REMOVABLE BASE FOR DC MOTOR FRAME 56C - 1/4 - 1.5 HP | $28.10 |
| 2 HP (56C) | DCBASE 2-56C | | REMOVABLE BASE FOR DC MOTOR FRAME 56C - 2 HP | $51.00 |
| 1.5 - 2 HP (145TC) | DCBASE 2 | | REMOVABLE BASE FOR DC MOTOR FRAME 145TC - 1.5 - 2 HP | $51.00 |

# MOTOR ACCESSORIES / PARTS
# WORLDWIDE EISA-COMPLIANT MOTORS
## *Motor C-Flange and D-Flange Kits*







### C-Flange Kits

| Frame Size | Model Number | List Price | Approx. Wt. (lbs.) |
|---|---|---|---|
| 143T / 145T | WWHT140TC | $31.96 | 7 |
| 182T / 184T | WWHT180TC | $44.41 | 14 |
| 213T / 215T (2 POLE) | WWHT210TC-2 | $62.15 | 14 |
| 213T / 215T (4/6 POLE) | WWHT210TC | $62.15 | 14 |
| 213T / 215T (8 POLE) | W210TC | $62.15 | 14 |
| 254T / 256T (2 POLE) | WWHT250TC-2 | $106.56 | 36 |
| 254T / 256T (4/6 POLE) | WWHT250TC | $106.56 | 36 |
| 254T / 256T (8 POLE) | W250TC | $106.56 | 36 |
| 284T / 286T (2 POLE) | WWHT280TC-2 | $133.24 | 38 |
| 284T / 286T (4/6 POLE) | WWHT280TC | $133.24 | 38 |
| 284T / 286T (8 POLE) | W280TC | $133.24 | 38 |
| 324T / 326T (2 POLE) | WWHT320TC-2 | $186.52 | 48 |
| 324T / 326T (4/6 POLE) | WWHT320TC | $186.52 | 48 |
| 324T / 326T (8 POLE) | W320TC | $186.52 | 48 |
| 364T / 365T (2 POLE) | WWHT360TC-2 | $266.42 | 55 |
| 364T / 365T (4/6 POLE) | WWHT360TC | $266.42 | 55 |
| 364T / 365T (8 POLE) | W360TC | $266.42 | 55 |
| 404T / 405T (2 POLE) | WWHT400TC-2 | $395.51 | 148 |
| 404T / 405T (4/6 POLE) | WWHT400TC-4/6 | $395.51 | 148 |
| 404T / 405T (8 POLE) | W400TC | $395.51 | 148 |
| 444T / 445T (2 POLE) | WWHT444/5/7TC-2 | $418.76 | 155 |
| 444T / 445T (4/6 POLE) | WWHT444/5TC-4/6 | $418.76 | 155 |
| 444T / 445T (8 POLE) | W444/5TC | $418.76 | 155 |
| 447T (2 POLE) | WWHT444/5/7TC-2 | $418.76 | 160 |
| 447T (4/6 POLE) | WWHT445/7TC-4/6 | $418.76 | 160 |
| 447T (8 POLE) | W447TC | $418.76 | 160 |
| 449T (2 POLE) | W449TC-2 | $612.64 | 160 |
| 449T (4/6/8 POLE) | W449TC | $612.64 | 160 |
| 505Z / 505UZ | W500TC | $612.64 | 160 |
| 586/7 / 586/7UZ | W580TC | $1,046.93 | 240 |

### D-Flange Kits

| Frame Size | Model Number | List Price | Approx. Wt. (lbs.) |
|---|---|---|---|
| 143T / 145T | WWHT140TD | $31.96 | 7 |
| 182T / 184T | WWHT180TD | $44.41 | 14 |
| 213T / 215T (2 POLE) | WWHT210TD-2 | $62.15 | 14 |
| 213T / 215T (4/6 POLE) | WWHT210TD | $62.15 | 14 |
| 213T / 215T (8 POLE) | W210TD | $62.15 | 14 |
| 254T / 256T (2 POLE) | WWHT250TD-2 | $106.56 | 36 |
| 254T / 256T (4/6 POLE) | WWHT250TD | $106.56 | 36 |
| 254T / 256T (8 POLE) | W250TD | $106.56 | 36 |
| 284T / 286T (2 POLE) | WWHT280TD-2 | $133.24 | 38 |
| 284T / 286T (4/6 POLE) | WWHT280TD | $133.24 | 38 |
| 284T / 286T (8 POLE) | W280TD | $133.24 | 38 |
| 324T / 326T (2 POLE) | WWHT320TD-2 | $186.52 | 48 |
| 324T / 326T (4/6 POLE) | WWHT320TD | $186.52 | 48 |
| 324T / 326T (8 POLE) | W320TD | $186.52 | 48 |
| 364T / 365T (2 POLE) | WWHT360TD-2 | $266.42 | 55 |
| 364T / 365T (4/6 POLE) | WWHT360TD | $266.42 | 55 |
| 364T / 365T (8 POLE) | W360TD | $266.42 | 55 |
| 404T / 405T (2 POLE) | WWHT400TD-2 | $395.51 | 148 |
| 404T / 405T (4/6 POLE) | WWHT400TD-4/6 | $395.51 | 148 |
| 404T / 405T (8 POLE) | W400TD | $395.51 | 148 |
| 444T / 445T (2 POLE) | WWHT444/5/7TD-2 | $418.76 | 155 |
| 444T / 445T (4/6 POLE) | WWHT444/5TD-4/6 | $418.76 | 155 |
| 444T / 445T (8 POLE) | W444/5TD | $418.76 | 155 |
| 447T (2 POLE) | WWHT444/5/7TD-2 | $418.76 | 160 |
| 447T (4/6 POLE) | WWHT445/7TD-4/6 | $418.76 | 160 |
| 447T (8 POLE) | W447TD | $418.76 | 160 |
| 449T (2 POLE) | W449TD-2 | $612.64 | 160 |
| 449T (4/6/8 POLE) | W449TD | $612.64 | 160 |
| 505Z / 505UZ | W500TD | $612.64 | 160 |
| 586/7 / 586/7UZ | W580TD | $1,046.93 | 240 |

# MOTOR ACCESSORIES / PARTS
# WORLDWIDE EISA-COMPLIANT MOTORS

| Frame Size | Model Number | Description | List Price |
|---|---|---|---|
| BEARING CAP KITS - DRIVE-END | | | |
| 143T / 145T | — | — | — |
| 182T / 184T | — | — | — |
| 213T / 215T | — | — | — |
| 254T / 256T (2 POLE) | WWHTBCAPKIT250-2DE | DE BEARING CAP KIT FOR FRAMES 254T / 256T - 2 POLE | $38.29 |
| 254T / 256T (4/6 POLE) | WWHTBCAPKIT250DE | DE BEARING CAP KIT FOR FRAMES 254T / 256T - 4/6 POLE | $38.29 |
| 254T / 256T (8 POLE) | BCAPKIT250DE | DE BEARING CAP KIT FOR FRAMES 254T / 256T - 8 POLE | $38.29 |
| 284T / 286T (2 POLE) | WWHTBCAPKIT280-2DE | DE BEARING CAP KIT FOR FRAMES 284T / 286T - 2 POLE | $63.60 |
| 284T / 286T (4/6 POLE) | WWHTBCAPKIT280DE | DE BEARING CAP KIT FOR FRAMES 284T / 286T - 4/6 POLE | $63.60 |
| 284T / 286T (8 POLE) | BCAPKIT280DE | DE BEARING CAP KIT FOR FRAMES 284T / 286T - 8 POLE | $63.60 |
| 324T / 326T (2 POLE) | WWHTBCAPKIT320-2DE | DE BEARING CAP KIT FOR FRAMES 324T / 326T - 2 POLE | $70.11 |
| 324T / 326T (4/6 POLE) | WWHTBCAPKIT320DE | DE BEARING CAP KIT FOR FRAMES 324T / 326T - 4/6 POLE | $70.11 |
| 324T / 326T (8 POLE) | BCAPKIT320DE | DE BEARING CAP KIT FOR FRAMES 324T / 326T - 8 POLE | $70.11 |
| 364T / 365T (2 POLE) | WWHTBCAPKIT360-2DE | DE BEARING CAP KIT FOR FRAMES 364T / 365T - 2 POLE | $79.43 |
| 364T / 365T (4/6 POLE) | WWHTBCAPKIT360DE | DE BEARING CAP KIT FOR FRAMES 364T / 365T - 4/6 POLE | $79.43 |
| 364T / 365T (8 POLE) | BCAPKIT360DE | DE BEARING CAP KIT FOR FRAMES 364T / 365T - 8 POLE | $79.43 |
| 404T / 405T (2 POLE) | WWHTBCAPKIT400-2DE | DE BEARING CAP KIT FOR FRAMES 404T / 405T - 2 POLE | $118.34 |
| 404T / 405T (4/6 POLE) | WWHTBCAPKIT400-4/6DE | DE BEARING CAP KIT FOR FRAMES 404T / 405T - 4/6 POLE | $118.34 |
| 404T / 405T (8 POLE) | BCAPKIT400DE | DE BEARING CAP KIT FOR FRAMES 404T / 405T - 8 POLE | $118.34 |
| 444T / 445T (2 POLE) | WWHTBCAPKIT444/5/7-2DE | DE BEARING CAP KIT FOR FRAMES 444T / 445T - 2 POLE | $162.97 |
| 444T / 445T (4/6 POLE) | WWHTBCAPKIT444/5DE | DE BEARING CAP KIT FOR FRAMES 444T / 445T - 4/6 POLE | $162.97 |
| 444T / 445T (8 POLE) | BCAPKIT440DE | DE BEARING CAP KIT FOR FRAMES 444T / 445T - 8 POLE | $162.97 |
| 447T (2 POLE) | WWHTBCAPKIT444/5/7-2DE | DE BEARING CAP KIT FOR FRAME 447T - 2 POLE | $162.97 |
| 447T (4/6 POLE) | WWHTBCAPKIT447DE | DE BEARING CAP KIT FOR FRAME 447T - 4/6 POLE | $168.91 |
| 447T (8 POLE) | BCAPKIT447DE | DE BEARING CAP KIT FOR FRAME 447T - 8 POLE | $168.91 |
| 449T (2 POLE) | BCAPKIT449-2DE | DE BEARING CAP KIT FOR FRAME 449T - 2 POLE | $168.91 |
| 449T (4/6/8 POLE) | BCAPKIT449DE | DE BEARING CAP KIT FOR FRAME 449T - 4/6/8 POLE | $168.91 |
| 505Z / 505UZ | BCAPKIT500DE | DE BEARING CAP KIT FOR FRAMES 505Z / 505UZ | $168.91 |
| 586/7 / 586/7UZ | BCAPKIT580DE | DE BEARING CAP KIT FOR FRAMES 586/7 / 586/7UZ | $168.91 |
| BEARING CAP KITS - OPPOSITE DRIVE-END | | | |
| 143T / 145T | — | — | — |
| 182T / 184T | — | — | — |
| 213T / 215T (2/4/6 POLE) | — | — | — |
| 213T / 215T (8 POLE) | BCAPINT210 | ODE BEARING RETAINER FOR FRAMES 213T / 215T - 8 POLE | $34.11 |
| 254T / 256T (2 POLE) | WWHTBCAPKIT250-2ODE | ODE BEARING CAP KIT FOR FRAMES 254T / 256T - 2 POLE | $34.11 |
| 254T / 256T (4/6 POLE) | WWHTBCAPKIT250ODE | ODE BEARING CAP KIT FOR FRAMES 254T / 256T - 4/6 POLE | $34.11 |
| 254T / 256T (8 POLE) | BCAPKIT250ODE | ODE BEARING CAP KIT FOR FRAMES 254T / 256T - 8 POLE | $34.11 |
| 284T / 286T (2 POLE) | WWHTBCAPKIT280-2ODE | ODE BEARING CAP KIT FOR FRAMES 284T / 286T - 2 POLE | $53.26 |
| 284T / 286T (4/6 POLE) | WWHTBCAPKIT280ODE | ODE BEARING CAP KIT FOR FRAMES 284T / 286T - 4/6 POLE | $53.26 |
| 284T / 286T (8 POLE) | BCAPKIT280ODE | ODE BEARING CAP KIT FOR FRAMES 284T / 286T - 8 POLE | $53.26 |
| 324T / 326T (2 POLE) | WWHTBCAPKIT320-2ODE | ODE BEARING CAP KIT FOR FRAMES 324T / 326T - 2 POLE | $70.11 |
| 324T / 326T (4/6 POLE) | WWHTBCAPKIT320ODE | ODE BEARING CAP KIT FOR FRAMES 324T / 326T - 4/6 POLE | $70.11 |
| 324T / 326T (8 POLE) | BCAPKIT320ODE | ODE BEARING CAP KIT FOR FRAMES 324T / 326T - 8 POLE | $70.11 |

# MOTOR ACCESSORIES / PARTS
# WORLDWIDE EISA-COMPLIANT MOTORS

| Frame Size | Model Number | Description | List Price |
|---|---|---|---|
| BEARING CAP KITS - OPPOSITE DRIVE-END - CONTINUED | | | |
| 364T / 365T (2 POLE) | WWHTBCAPKIT360-2ODE | ODE BEARING CAP KIT FOR FRAMES 364T / 365T - 2 POLE | $79.43 |
| 364T / 365T (4/6 POLE) | WWHTBCAPKIT360ODE | ODE BEARING CAP KIT FOR FRAMES 364T / 365T - 4/6 POLE | $79.43 |
| 364T / 365T (8 POLE) | BCAPKIT360ODE | ODE BEARING CAP KIT FOR FRAMES 364T / 365T - 8 POLE | $79.43 |
| 404T / 405T (2 POLE) | WWHTBCAPKIT400-2ODE | ODE BEARING CAP KIT FOR FRAMES 404T / 405T - 2 POLE | $118.34 |
| 404T / 405T (4/6 POLE) | WWHTBCAPKIT400-4/6ODE | ODE BEARING CAP KIT FOR FRAMES 404T / 405T - 4/6 POLE | $118.34 |
| 404T / 405T (8 Pole) | BCAPKIT400ODE | ODE BEARING CAP KIT FOR FRAMES 404T / 405T - 8 POLE | $118.34 |
| 444T / 445T / 447T (2 POLE) | WWHTBCAPKIT444/5/7-2ODE | ODE BEARING CAP KIT FOR FRAMES 444T / 445T / 447T - 2 POLE | $154.46 |
| 444T / 445T / 447T (4/6 POLE) | WWHTBCAPKIT444/5/7ODE | ODE BEARING CAP KIT FOR FRAMES 444T / 445T / 447T - 4/6 POLE | $154.46 |
| 444T / 445T / 447T (8 POLE) | BCAPKIT440ODE | ODE BEARING CAP KIT FOR FRAMES 444T / 445T / 447T - 8 POLE | $154.46 |
| 449T (2 POLE) | BCAPKIT449-2ODE | ODE BEARING CAP KIT FOR FRAME 449T - 2 POLE | $154.46 |
| 449T (4, 6 & 8 POLE) | BCAPKIT449ODE | ODE BEARING CAP KIT FOR FRAME 449T - 4, 6 & 8 POLE | $154.46 |
| 505Z / 505UZ | BCAPKIT500ODE | ODE BEARING CAP KIT FOR FRAMES 505Z / 505UZ | $154.46 |
| 586/7 / 586/7UZ | BCAPKIT580ODE | ODE BEARING CAP KIT FOR FRAMES 586/7 / 586/7UZ | $154.46 |
| ENDBELLS - DRIVE-END | | | |
| 143T / 145T | WWHTEBELLDE140 | DE ENDBELL FOR FRAMES 143T / 145T | $54.35 |
| 182T / 184T | WWHTEBELLDE180 | DE ENDBELL FOR FRAMES 182T / 184T | $68.00 |
| 213T / 215T (2 POLE) | WWHTEBELLDE210-2 | DE ENDBELL FOR FRAMES 213T / 215T - 2 POLE | $95.18 |
| 213T / 215T (4/6 POLE) | WWHTEBELLDE210 | DE ENDBELL FOR FRAMES 213T / 215T - 4/6 POLE | $95.18 |
| 213T / 215T (8 POLE) | EBELLDE210 | DE ENDBELL FOR FRAMES 213T / 215T - 8 POLE | $95.18 |
| 254T / 256T (2 POLE) | WWHTEBELLDE250-2 | DE ENDBELL FOR FRAMES 254T / 256T - 2 POLE | $163.18 |
| 254T / 256T (4/6 POLE) | WWHTEBELLDE250 | DE ENDBELL FOR FRAMES 254T / 256T - 4/6 POLE | $163.18 |
| 254T / 256T (8 POLE) | EBELLDE250 | DE ENDBELL FOR FRAMES 254T / 256T - 8 POLE | $163.18 |
| 284T / 286T (2 POLE) | WWHTEBELLDE280-2 | DE ENDBELL FOR FRAMES 284T / 286T - 2 POLE | $204.00 |
| 284T / 286T (4/6 POLE) | WWHTEBELLDE280 | DE ENDBELL FOR FRAMES 284T / 286T - 4/6 POLE | $204.00 |
| 284T / 286T (8 POLE) | EBELLDE280 | DE ENDBELL FOR FRAMES 284T / 286T - 8 POLE | $204.00 |
| 324T / 326T (2 POLE) | WWHTEBELLDE320-2 | DE ENDBELL FOR FRAMES 324T / 326T - 2 POLE | $285.65 |
| 324T / 326T (4/6 POLE) | WWHTEBELLDE320 | DE ENDBELL FOR FRAMES 324T / 326T - 4/6 POLE | $285.65 |
| 324T / 326T (8 POLE) | EBELLDE320 | DE ENDBELL FOR FRAMES 324T / 326T - 8 POLE | $285.65 |
| 364T / 365T (2 POLE) | WWHTEBELLDE360-2 | DE ENDBELL FOR FRAMES 364T / 365T - 2 POLE | $408.00 |
| 364T / 365T (4/6 POLE) | WWHTEBELLDE360 | DE ENDBELL FOR FRAMES 364T / 365T - 4/6 POLE | $408.00 |
| 364T / 365T (8 POLE) | EBELLDE360 | DE ENDBELL FOR FRAMES 364T / 365T - 8 POLE | $408.00 |
| 404T / 405T (2 POLE) | WWHTEBELLDE400-2 | DE ENDBELL FOR FRAMES 404T / 405T - 2 POLE | $544.00 |
| 404T / 405T (4/6 POLE) | WWHTEBELLDE400-4/6 | DE ENDBELL FOR FRAMES 404T / 405T - 4/6 POLE | $544.00 |
| 404T / 405T (8 POLE) | EBELLDE400 | DE ENDBELL FOR FRAMES 404T / 405T - 8 POLE | $544.00 |
| 444T / 445T (2 POLE) | WWHTEBELLDE444/5/7-2 | DE ENDBELL FOR FRAMES 444T / 445T - 2 POLE | $612.00 |
| 444T / 445T (4/6 POLE) | WWHTEBELLDE444/5-4/6 | DE ENDBELL FOR FRAMES 444T / 445T - 4/6 POLE | $612.00 |
| 444T / 445T (8 POLE) | EBELLDE440 | DE ENDBELL FOR FRAMES 444T / 445T - 8 POLE | $612.00 |
| 447T (2 POLE) | WWHTEBELLDE444/5/7-2 | DE ENDBELL FOR FRAME 447T - 2 POLE | $612.00 |
| 447T (4/6 POLE) | WWHTEBELLDE447-4/6 | DE ENDBELL FOR FRAME 447T - 4/6 POLE | $612.00 |
| 447T (8 POLE) | EBELLDE447 | DE ENDBELL FOR FRAME 447T - 8 POLE | $612.00 |
| 449T (2 POLE) | EBELLDE449-2 | DE ENDBELL FOR FRAME 449T - 2 POLE | $612.00 |
| 449T (4/6/8 POLE) | EBELLDE449 | DE ENDBELL FOR FRAME 449T - 4/6/8 POLE | $612.00 |
| 505Z / 505UZ | EBELLDE500 | DE ENDBELL FOR FRAMES 505Z / 505UZ | $816.00 |
| 586/7 / 586/7UZ | EBELLDE580 | DE ENDBELL FOR FRAMES 586/7 / 586/7UZ | $1,224.00 |



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# MOTOR ACCESSORIES / PARTS
# WORLDWIDE EISA-COMPLIANT MOTORS

| Frame Size | Model Number | Description | List Price |
|---|---|---|---|
| ENDBELLS - OPPOSITE DRIVE-END | | | |
| 143T / 145T | WWHTEBELLODE140 | ODE ENDBELL FOR FRAMES 143T / 145T | $54.35 |
| 182T / 184T | WWHTEBELLODE180 | ODE ENDBELL FOR FRAMES 182T / 184T | $68.00 |
| 213T / 215T (2 POLE) | WWHTEBELLODE210-2 | ODE ENDBELL FOR FRAMES 213T / 215T - 2 POLE | $95.18 |
| 213T / 215T (4/6 POLE) | WWHTEBELLODE210 | ODE ENDBELL FOR FRAMES 213T / 215T - 4/6 POLE | $95.18 |
| 213T / 215T (8 POLE) | EBELLODE210 | ODE ENDBELL FOR FRAMES 213T / 215T - 8 POLE | $95.18 |
| 254T / 256T (2 POLE) | WWHTEBELLODE250-2 | ODE ENDBELL FOR FRAMES 254T / 256T - 2 POLE | $163.18 |
| 254T / 256T (4/6 POLE) | WWHTEBELLODE250 | ODE ENDBELL FOR FRAMES 254T / 256T - 4/6 POLE | $163.18 |
| 254T / 256T (8 POLE) | EBELLODE250 | ODE ENDBELL FOR FRAMES 254T / 256T - 8 POLE | $163.18 |
| 284T / 286T (2 POLE) | WWHTEBELLODE280-2 | ODE ENDBELL FOR FRAMES 284T / 286T - 2 POLE | $204.00 |
| 284T / 286T (4/6 POLE) | WWHTEBELLODE280 | ODE ENDBELL FOR FRAMES 284T / 286T - 4/6 POLE | $204.00 |
| 284T / 286T (8 POLE) | EBELLODE280 | ODE ENDBELL FOR FRAMES 284T / 286T - 8 POLE | $204.00 |
| 324T / 326T (2 POLE) | WWHTEBELLODE320-2 | ODE ENDBELL FOR FRAMES 324T / 326T - 2 POLE | $285.65 |
| 324T / 326T (4/6 POLE) | WWHTEBELLODE320 | ODE ENDBELL FOR FRAMES 324T / 326T - 4/6 POLE | $285.65 |
| 324T / 326T (8 POLE) | EBELLODE320 | ODE ENDBELL FOR FRAMES 324T / 326T - 8 POLE | $285.65 |
| 364T / 365T (2 POLE) | WWHTEBELLODE360-2 | ODE ENDBELL FOR FRAMES 364T / 365T - 2 POLE | $408.00 |
| 364T / 365T (4/6 POLE) | WWHTEBELLODE360 | ODE ENDBELL FOR FRAMES 364T / 365T - 4/6 POLE | $408.00 |
| 364T / 365T (8 POLE) | EBELLODE360 | ODE ENDBELL FOR FRAMES 364T / 365T - 8 POLE | $408.00 |
| 404T / 405T (2 POLE) | WWHTEBELLODE400-2 | ODE ENDBELL FOR FRAMES 404T / 405T - 2 POLE | $544.00 |
| 404T / 405T (4/6 POLE) | WWHTEBELLODE400 | ODE ENDBELL FOR FRAMES 404T / 405T - 4/6 POLE | $544.00 |
| 404T / 405T (8 POLE) | EBELLODE400 | ODE ENDBELL FOR FRAMES 404T / 405T - 8 POLE | $544.00 |
| 444T / 445T / 447T (2 POLE) | WWHTEBELLODE444/5/7-2 | ODE ENDBELL FOR FRAMES 444T / 445T / 447T - 2 POLE | $612.00 |
| 444T / 445T / 447T (4/6 POLE) | WWHTEBELLODE444/5/7 | ODE ENDBELL FOR FRAMES 444T / 445T / 447T - 4/6 POLE | $612.00 |
| 444T / 445T / 447T (8 POLE) | EEBELLODE440 | ODE ENDBELL FOR FRAMES 444T / 445T / 447T - 8 POLE | $612.00 |
| 449T (2 POLE) | EBELLODE449-2 | ODE ENDBELL FOR FRAME 449T - 2 POLE | $612.00 |
| 449T (4/6/8 POLE) | EBELLODE449 | ODE ENDBELL FOR FRAME 449T - 4/6/8 POLE | $612.00 |
| 505Z / 505UZ | EBELLODE500 | ODE ENDBELL FOR FRAMES 505Z / 505UZ | $816.00 |
| 586/7 / 586/7UZ | EBELLODE580 | ODE ENDBELL FOR FRAMES 586/7 / 586/7UZ | $1,224.00 |
| EYEBOLTS | | | |
| 143T / 145T | — | — | — |
| 182T / 184T | MEYE180 | EYEBOLT FOR FRAMES 182T / 184T | $13.65 |
| 213T / 215T (2/4/6 POLE) | MEYE210 | EYEBOLT FOR FRAMES 213T / 215T - 2/4/6 POLE | $13.65 |
| 213T / 215T (8 POLE) | EYE210 | EYEBOLT FOR FRAMES 213T / 215T - 8 POLE | $13.65 |
| 254T / 256T (2/4/6 POLE) | MEYE250/280 | EYEBOLT FOR FRAMES 254T / 256T - 2/4/6 POLE | $16.35 |
| 254T / 256T (8 POLE) | EYE250/280 | EYEBOLT FOR FRAMES 254T / 256T - 8 POLE | $16.35 |
| 284T / 286T (2/4/6 POLE) | MEYE250/280 | EYEBOLT FOR FRAMES 284T / 286T - 2/4/6 POLE | $16.35 |
| 284T / 286T (8 POLE) | EYE250/280 | EYEBOLT FOR FRAMES 284T / 286T - 8 POLE | $16.35 |
| 324T / 326T (2/4/6 POLE) | MEYE320/360 | EYEBOLT FOR FRAMES 324T / 326T - 2/4/6 POLE | $24.47 |
| 324T / 326T (8 POLE) | EYE320/360 | EYEBOLT FOR FRAMES 324T / 326T - 8 POLE | $24.47 |
| 364T / 365T (2/4/6 POLE) | MEYE320/360 | EYEBOLT FOR FRAMES 364T / 365T - 2/4/6 POLE | $24.47 |
| 364T / 365T (8 POLE) | EYE320/360 | EYEBOLT FOR FRAMES 364T / 365T - 8 POLE | $24.47 |
| 404T / 405T (2/4/6 POLE) | MEYE400 | EYEBOLT FOR FRAMES 404T / 405T - 2/4/6 POLE | $40.82 |
| 404T / 405T (8 POLE) | EYE400 | EYEBOLT FOR FRAMES 404T / 405T - 8 POLE | $40.82 |
| 444T / 445T / 447T (2/4/6 POLE) | MEYE444/5/7 | EYEBOLT FOR FRAMES 444T / 445T / 447T - 2/4/6 POLE | $68.00 |
| 444T / 445T / 447T (8 POLE) | EYE440 | EYEBOLT FOR FRAMES 444T / 445T / 447T - 8 POLE | $68.00 |
| 449T | EYE449/500 | EYEBOLT FOR FRAME 449T | $68.00 |
| 505Z / 505UZ | EYE449/500 | EYEBOLT FOR FRAMES 505Z / 505UZ | $68.00 |
| 586/7 / 586/7UZ | EYE580 | EYEBOLT FOR FRAMES 586/7 / 586/7UZ | $68.00 |



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# MOTOR ACCESSORIES / PARTS
# WORLDWIDE EISA-COMPLIANT MOTORS



| Frame Size | Model Number | Description | List Price |
|---|---|---|---|
| FANS | | | |
| 143T / 145T (2 POLE) | WWHTFAN140/180-2 | FAN FOR FRAMES 143T / 145T - 2 POLE | $34.00 |
| 143T / 145T (4/6 POLE) | MFAN140/180N | FAN FOR FRAMES 143T / 145T - 4/6 POLE | $34.00 |
| 182T / 184T (2 POLE) | WWHTFAN140/180-2 | FAN FOR FRAMES 182T / 184T - 2 POLE | $34.00 |
| 182T / 184T (4/6 POLE) | MFAN140/180N | FAN FOR FRAMES 182T / 184T - 4/6 POLE | $34.00 |
| 213T / 215T (2 POLE) | WWHTFAN210-2 | FAN FOR FRAMES 213T / 215T - 2 POLE | $40.82 |
| 213T / 215T (4/6 POLE) | MFAN210-4/6 | FAN FOR FRAMES 213T / 215T - 4/6 POLE | $40.82 |
| 213T / 215T (8 POLE) | FAN210 | FAN FOR FRAMES 213T / 215T - 8 POLE | $40.82 |
| 254T / 256T (2 POLE) | WWHTFAN250/280-2 | FAN FOR FRAMES 254T / 256T - 2 POLE | $95.18 |
| 254T / 256T (4/6 POLE) | MFAN250-4/6 | FAN FOR FRAMES 254T / 256T - 4/6 POLE | $68.00 |
| 254T / 256T (8 POLE) | FAN250 | FAN FOR FRAMES 254T / 256T - 8 POLE | $68.00 |
| 284T / 286T (2 POLE) | WWHTFAN250/280-2 | FAN FOR FRAMES 284T / 286T - 2 POLE | $95.18 |
| 284T / 286T (4/6 POLE) | MFAN280-4/6 | FAN FOR FRAMES 284T / 286T - 4/6 POLE | $95.18 |
| 284T / 286T (8 POLE) | FAN280 | FAN FOR FRAMES 284T / 286T - 8 POLE | $95.18 |
| 324T / 326T (2 POLE) | WWHTFAN320-2 | FAN FOR FRAMES 324T / 326T - 2 POLE | $122.35 |
| 324T / 326T (4/6 POLE) | MFAN320-4/6 | FAN FOR FRAMES 324T / 326T - 4/6 POLE | $122.35 |
| 324T / 326T (8 POLE) | FAN320 | FAN FOR FRAMES 324T / 326T - 8 POLE | $122.35 |
| 364T / 365T (2 POLE) | WWHTFAN360-2 | FAN FOR FRAMES 364T / 365T - 2 POLE | $204.00 |
| 364T / 365T (4/6 POLE) | MFAN360 | FAN FOR FRAMES 364T / 365T - 4/6 POLE | $204.00 |
| 364T / 365T (8 POLE) | FAN360 | FAN FOR FRAMES 364T / 365T - 8 POLE | $204.00 |
| 404T / 405T (2 POLE) | WWHTFAN400-2 | FAN FOR FRAMES 404T / 405T - 2 POLE | $244.82 |
| 404T / 405T (4/6 POLE) | MFAN400-4/6 | FAN FOR FRAMES 404T / 405T - 4/6 POLE | $244.82 |
| 404T / 405T (8 POLE) | FAN400 | FAN FOR FRAMES 404T / 405T - 8 POLE | $244.82 |
| 444T / 445T / 447T (2 POLE) | WWHTFAN444/5/7-2 | FAN FOR FRAMES 444T / 445T / 447T - 2 POLE | $272.00 |
| 444T / 445T / 447T (4/6 POLE) | MFAN444/5/7-4/6 | FAN FOR FRAMES 444T / 445T / 447T - 4/6 POLE | $272.00 |
| 444T / 445T / 447T (8 POLE) | FAN440 | FAN FOR FRAMES 444T / 445T / 447T - 8 POLE | $272.00 |
| 449T (2 POLE) | FAN449-2 | FAN FOR FRAME 449T - 2 POLE | $340.00 |
| 449T (4/6/8 POLE) | FAN449 | FAN FOR FRAME 449T - 4/6/8 POLE | $340.00 |
| 505Z / 505UZ | FAN500 | FAN FOR FRAMES 505Z / 505UZ | $340.00 |
| 586/7 / 586/7UZ | FAN580 | FAN FOR FRAMES 586/7 / 586/7UZ | $544.00 |
| FAN COVERS - STEEL | | | |
| 143T / 145T | MFCOVER140 | FAN COVER FOR FRAMES 143T / 145T | $22.86 |
| 182T / 184T | MFCOVER180 | FAN COVER FOR FRAMES 182T / 184T | $30.80 |
| 213T / 215T (2 POLE) | WWHTFCOVER210-2 | FAN COVER FOR FRAMES 213T / 215T - 2 POLE | $45.83 |
| 213T / 215T (4/6 POLE) | MFCOVER210 | FAN COVER FOR FRAMES 213T / 215T - 4/6 POLE | $45.83 |
| 213T / 215T (8 POLE) | FCOVER210 | FAN COVER FOR FRAMES 213T / 215T - 8 POLE | $45.83 |
| 254T / 256T (2 POLE) | WWHTFCOVER250-2 | FAN COVER FOR FRAMES 254T / 256T - 2 POLE | $72.86 |
| 254T / 256T (4/6 POLE) | MFCOVER250 | FAN COVER FOR FRAMES 254T / 256T - 4/6 POLE | $72.86 |
| 254T / 256T (8 POLE) | FCOVER250 | FAN COVER FOR FRAMES 254T / 256T - 8 POLE | $72.86 |
| 284T / 286T (2 POLE) | WWHTFCOVER280-2 | FAN COVER FOR FRAMES 284T / 286T - 2 POLE | $107.37 |
| 284T / 286T (4/6 POLE) | MFCOVER280 | FAN COVER FOR FRAMES 284T / 286T - 4/6 POLE | $107.37 |
| 284T / 286T (8 POLE) | FCOVER280 | FAN COVER FOR FRAMES 284T / 286T - 8 POLE | $107.37 |
| 324T / 326T (2 POLE) | WWHTFCOVER320-2 | FAN COVER FOR FRAMES 324T / 326T - 2 POLE | $132.23 |
| 324T / 326T (4/6 POLE) | MFCOVER320 | FAN COVER FOR FRAMES 324T / 326T - 4/6 POLE | $132.23 |
| 324T / 326T (8 POLE) | FCOVER320 | FAN COVER FOR FRAMES 324T / 326T - 8 POLE | $132.23 |

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| Frame Size | Model Number | Description | List Price |
|---|---|---|---|
| FAN COVERS - STEEL - CONTINUED | | | |
| 364T / 365T (2 POLE) | WWHTFCOVER360-2 | FAN COVER FOR FRAMES 364T / 365T - 2 POLE | $158.17 |
| 364T / 365T (4/6 POLE) | MFCOVER360 | FAN COVER FOR FRAMES 364T / 365T - 4/6 POLE | $158.17 |
| 364T / 365T (8 POLE) | FCOVER360 | FAN COVER FOR FRAMES 364T / 365T - 8 POLE | $158.17 |
| 404T / 405T (2 POLE) | MFCOVER400-2 | FAN COVER FOR FRAMES 404T / 405T - 2 POLE | $324.69 |
| 404T / 405T (4/6 POLE) | MFCOVER400-4/6 | FAN COVER FOR FRAMES 404T / 405T - 4/6 POLE | $324.69 |
| 404T / 405T (8 POLE) | FCOVER400 | FAN COVER FOR FRAMES 404T / 405T - 8 POLE | $324.69 |
| 444T / 445T / 447T (2 POLE) | MFCOVER444/5/7-2 | FAN COVER FOR FRAMES 444T / 445T / 447T - 2 POLE | $411.37 |
| 444T / 445T / 447T (4/6 POLE) | MFCOVER444/5/7-4/6 | FAN COVER FOR FRAMES 444T / 445T / 447T - 4/6 POLE | $411.37 |
| 444T / 445T / 447T (8 POLE) | FCOVER440 | FAN COVER FOR FRAMES 444T / 445T / 447T - 8 POLE | $411.37 |
| 449T (2 POLE) | FCOVER449-2 | FAN COVER FOR FRAME 449T - 2 POLE | $411.37 |
| 449T (4/6/8 POLE) | FCOVER449 | FAN COVER FOR FRAME 449T - 4/6/8 POLE | $411.37 |
| 505Z / 505UZ | FCOVER500 | FAN COVER FOR FRAMES 505Z / 505UZ | $411.37 |
| 586/7 Z 586/7UZ | FCOVER580 | FAN COVER FOR FRAMES 586/7 / 586/7UZ | $411.37 |
| JUNCTION BOXES - INCLUDES BOX & COVER | | | |
| 143T / 145T | MJBOX140T | JUNCTION BOX FOR FRAMES 143T / 145T | $36.17 |
| 182T / 184T | MJBOX180/210T | JUNCTION BOX FOR FRAMES 182T / 184T | $53.26 |
| 213T / 215T (2/4/6 POLE) | MJBOX180/210T | JUNCTION BOX FOR FRAMES 213T / 215T - 2/4/6 POLE | $53.26 |
| 213T / 215T (8 POLE) | JBOX210T | JUNCTION BOX FOR FRAMES 213T / 215T - 8 POLE | $53.26 |
| 254T / 256T (2/4/6 POLE) | MJBOX250/280T | JUNCTION BOX FOR FRAMES 254T / 256T - 2/4/6 POLE | $94.63 |
| 254T / 256T (8 POLE) | JBOX250T | JUNCTION BOX FOR FRAMES 254T / 256T - 8 POLE | $94.63 |
| 284T / 286T (2/4/6 POLE) | MJBOX250/280T | JUNCTION BOX FOR FRAMES 284T / 286T - 2/4/6 POLE | $94.63 |
| 284T / 286T (8 POLE) | JBOX280T | JUNCTION BOX FOR FRAMES 284T / 286T - 8 POLE | $94.63 |
| 324T / 326T (2/4/6 POLE) | MJBOX320T | JUNCTION BOX FOR FRAMES 324T / 326T - 2/4/6 POLE | $115.66 |
| 324T / 326T (8 POLE) | JBOX320T | JUNCTION BOX FOR FRAMES 324T / 326T - 8 POLE | $115.66 |
| 364T / 365T (2/4/6 POLE) | MJBOX360T | JUNCTION BOX FOR FRAMES 364T / 365T - 2/4/6 POLE | $231.31 |
| 364T / 365T (8 POLE) | JBOX360T | JUNCTION BOX FOR FRAMES 364T / 365T - 8 POLE | $231.31 |
| 404T / 405T (2/4/6 POLE) | MJBOX400T | JUNCTION BOX FOR FRAMES 404T / 405T - 2/4/6 POLE | $294.40 |
| 404T / 405T (8 POLE) | JBOX400T | JUNCTION BOX FOR FRAMES 404T / 405T - 8 POLE | $294.40 |
| 444T / 445T / 447T (2/4/6 POLE) | MJBOX444/5/7T | JUNCTION BOX FOR FRAMES 444T / 445T / 447T - 2/4/6 POLE | $389.71 |
| 444T / 445T / 447T (8 POLE) | JBOX440T | JUNCTION BOX FOR FRAMES 444T / 445T / 447T - 8 POLE | $389.71 |
| 449T | JBOX449T | JUNCTION BOX FOR FRAME 449T | $389.71 |
| 505Z / 505UZ | JBOX500T | JUNCTION BOX FOR FRAMES 505Z / 505UZ | $389.71 |
| 586/7 / 586/7UZ | JBOX580T | JUNCTION BOX FOR FRAMES 586/7 / 586/7UZ | $389.71 |

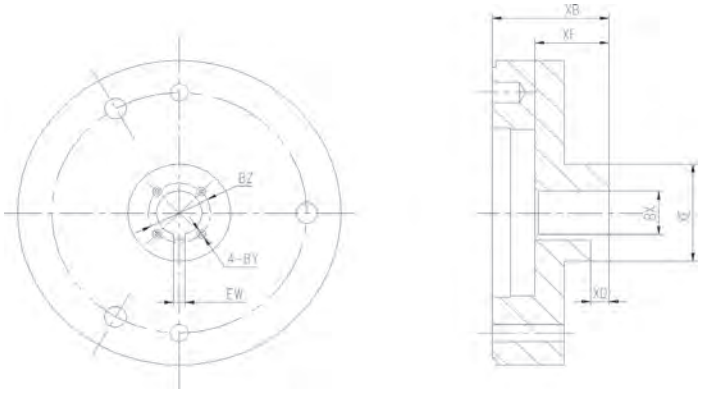
# WORLDWIDE ACCESSORIES / PARTS
# EXPLOSION PROOF MOTORS

| Frame Size | Model Number | Description | List Price |
|---|---|---|---|
| FANS | | | |
| 143T / 145T (2 POLE) | XPFAN140-2P/180-2P | EXPLOSION PROOF FAN FOR FRAMES 143T / 145T - 2 POLE | $68.57 |
| 143T / 145T (4/6 POLE) | XPFAN140/180 | EXPLOSION PROOF FAN FOR FRAMES 143T / 145T - 4/6 POLE | $68.57 |
| 182T / 184T (2 POLE) | XPFAN140-2P/180-2P | EXPLOSION PROOF FAN FOR FRAMES 182T / 184T - 2 POLE | $68.57 |
| 182T / 184T (4/6 POLE) | XPFAN140/180 | EXPLOSION PROOF FAN FOR FRAMES 182T / 184T - 4/6 POLE | $68.57 |
| 213T / 215T (2 POLE) | XPFAN210-2P | EXPLOSION PROOF FAN FOR FRAMES 213T / 215T - 2 POLE | $74.29 |
| 213T / 215T (4/6 POLE) | XPFAN210/250-2P | EXPLOSION PROOF FAN FOR FRAMES 213T / 215T - 4/6 POLE | $85.71 |
| 254T / 256T (2 POLE) | XPFAN210/250-2P | EXPLOSION PROOF FAN FOR FRAMES 254T / 256T - 2 POLE | $85.71 |
| 254T / 256T (4/6 POLE) | XPFAN250/280-2P | EXPLOSION PROOF FAN FOR FRAMES 254T / 256T - 4/6 POLE | $97.14 |
| 284T / 286T (2 POLE) | XPFAN250/280-2P | EXPLOSION PROOF FAN FOR FRAMES 284T / 286T - 2 POLE | $97.14 |
| 284T / 286T (4/6 POLE) | XPFAN280/320-2P | EXPLOSION PROOF FAN FOR FRAMES 284T / 286T - 4/6 POLE | $102.86 |
| 324T / 326T (2 POLE) | XPFAN280/320-2P | EXPLOSION PROOF FAN FOR FRAMES 324T / 326T - 2 POLE | $102.86 |
| 324T / 326T (4/6 POLE) | XPFAN320 | EXPLOSION PROOF FAN FOR FRAMES 324T / 326T - 4/6 POLE | $137.14 |
| 364T / 365T (2 POLE) | XPFAN360-2P/400-2P | EXPLOSION PROOF FAN FOR FRAMES 364T / 365T - 2 POLE | $137.14 |
| 364T / 365T (4/6 POLE) | XPFAN360 | EXPLOSION PROOF FAN FOR FRAMES 364T / 365T - 4/6 POLE | $154.29 |
| 404T / 405T (2 POLE) | XPFAN360-2P/400-2P | EXPLOSION PROOF FAN FOR FRAMES 404T / 405T - 2 POLE | $137.14 |
| 404T / 405T (4/6 POLE) | XPFAN400 | EXPLOSION PROOF FAN FOR FRAMES 404T / 405T - 4/6 POLE | $160.00 |
| 444/5T (2 POLE) | XPFAN444/5-2P | EXPLOSION PROOF FAN FOR FRAME 444/5T - 2 POLE | $160.00 |
| 444/5T (4/6 POLE) | XPFAN444/5-4/6P | EXPLOSION PROOF FAN FOR FRAME 444/5T - 4/6 POLE | $171.43 |
| 447/9T (2 POLE) | XPFAN447/9-2P | EXPLOSION PROOF FAN FOR FRAME 447/9T - 2 POLE | $171.43 |
| 447/9T (4 POLE) | XPFAN447/9-4P | EXPLOSION PROOF FAN FOR FRAME 447/9T - 4 POLE | $182.86 |
| 447/9T (6 POLE) | XPFAN447/9-6P | EXPLOSION PROOF FAN FOR FRAME 447/9T - 6 POLE | $194.29 |
| FAN COVERS - STEEL | | | |
| 143T / 145T | XPFCOVER140 | EXPLOSION PROOF FAN COVER FOR FRAMES 143T / 145T | $22.86 |
| 182T / 184T | XPFCOVER180 | EXPLOSION PROOF FAN COVER FOR FRAMES 182T / 184T | $22.86 |
| 213T / 215T | XPFCOVER210 | EXPLOSION PROOF FAN COVER FOR FRAMES 213T / 215T | $51.43 |
| 254T / 256T | XPFCOVER250 | EXPLOSION PROOF FAN COVER FOR FRAMES 254T / 256T | $154.29 |
| 284T / 286T | XPFCOVER280 | EXPLOSION PROOF FAN COVER FOR FRAMES 284T / 286T | $165.71 |
| 324T / 326T (2 POLE) | XPFCOVER320-2P | EXPLOSION PROOF FAN COVER FOR FRAMES 324T / 326T - 2 POLE | $205.71 |
| 324T / 326T (4/6 POLE) | XPFCOVER320 | EXPLOSION PROOF FAN COVER FOR FRAMES 324T / 326T - 4/6 POLE | $205.71 |
| 364T / 365T (2 POLE) | XPFCOVER360-2P | EXPLOSION PROOF FAN COVER FOR FRAMES 364T / 365T - 2 POLE | $234.29 |
| 364T / 365T (4/6 POLE) | XPFCOVER360 | EXPLOSION PROOF FAN COVER FOR FRAMES 364T / 365T - 4/6 POLE | $234.29 |
| 404T / 405T (2 POLE) | XPFCOVER400-2P | EXPLOSION PROOF FAN COVER FOR FRAMES 404T / 405T - 2 POLE | $268.57 |
| 404T / 405T (4/6 POLE) | XPFCOVER400 | EXPLOSION PROOF FAN COVER FOR FRAMES 404T / 405T - 4/6 POLE | $268.57 |
| 444/5T | XPFCOVER444/5 | EXPLOSION PROOF FAN COVER FOR FRAME 444/5T | $325.71 |
| 445/7/9T | XPFCOVER447/9 | EXPLOSION PROOF FAN COVER FOR FRAME 445/7/9T | $325.71 |
| 447/9T (2/4 POLE) | XPFCOVER447/9 | EXPLOSION PROOF FAN COVER FOR FRAME 447/9T - 2/4 POLE | $325.71 |
| 447/9T (6 POLE) | XPFCOVER447/9-6P | EXPLOSION PROOF FAN COVER FOR FRAME 447/9T - 6 POLE | $325.71 |
| JUNCTION BOXES - INCLUDES BOX & COVER | | | |
| 143T / 145T | XPJBOX140 | EXPLOSION PROOF JUNCTION BOX FOR FRAMES 143T / 145T | $171.43 |
| 182T / 184T | XPJBOX180 | EXPLOSION PROOF JUNCTION BOX FOR FRAMES 182T / 184T | $171.43 |
| 213T / 215T | XPJBOX210 | EXPLOSION PROOF JUNCTION BOX FOR FRAMES 213T / 215T | $217.14 |
| 254T / 256T | XPJBOX250 | EXPLOSION PROOF JUNCTION BOX FOR FRAMES 254T / 256T | $274.29 |
| 284T / 286T | XPJBOX280 | EXPLOSION PROOF JUNCTION BOX FOR FRAMES 284T / 286T | $274.29 |
| 324T / 326T | XPJBOX320 | EXPLOSION PROOF JUNCTION BOX FOR FRAMES 324T / 326T | $377.14 |
| 364T / 365T | XPJBOX360 | EXPLOSION PROOF JUNCTION BOX FOR FRAMES 364T / 365T | $445.71 |
| 404T / 405T | XPJBOX400 | EXPLOSION PROOF JUNCTION BOX FOR FRAMES 404T / 405T | $480.00 |
| 444/5T | XPJBOX440 | EXPLOSION PROOF JUNCTION BOX FOR FRAME 444/5T | $617.14 |
| 445/7/9T | XPJBOX440 | EXPLOSION PROOF JUNCTION BOX FOR FRAME 445/7/9T | $617.14 |
| 447/9T | XPJBOX440 | EXPLOSION PROOF JUNCTION BOX FOR FRAME 447/9T | $617.14 |

# MOTOR ACCESSORIES / PARTS
# WORLDWIDE OIL WELL PUMP MOTORS

| Frame Size | Model Number | Description | List Price |
|---|---|---|---|
| FANS | | | |
| 213T / 215T | WOFAN210 | WO FAN FOR FRAMES 213T / 215T | $40.82 |
| 254T / 256T | WOFAN250 | WO FAN FOR FRAMES 254T / 256T | $68.00 |
| 284T / 286T | WOFAN280 | WO FAN FOR FRAMES 284T / 286T | $95.18 |
| 324T / 326T | WOFAN320 | WO FAN FOR FRAMES 324T / 326T | $122.35 |
| 364T / 365T | WOFAN360 | WO FAN FOR FRAMES 364T / 365T | $204.00 |
| 404T / 405T | WOFAN400 | WO FAN FOR FRAMES 404T / 405T | $244.82 |
| 444T / 445T | WOFAN444/5 | WO FAN FOR FRAMES 444T / 445T | $272.00 |
| FAN COVERS | | | |
| 213T / 215T | WOFCOVER210 | WO FAN COVER FOR FRAMES 213T / 215T | $40.82 |
| 254T / 256T | WOFCOVER250 | WO FAN COVER FOR FRAMES 254T / 256T | $68.00 |
| 284T / 286T | WOFCOVER280 | WO FAN COVER FOR FRAMES 284T / 286T | $102.00 |
| 324T / 326T | WOFCOVER320 | WO FAN COVER FOR FRAMES 324T / 326T | $122.35 |
| 364T / 365T | WOFCOVER360 | WO FAN COVER FOR FRAMES 364T / 365T | $190.35 |
| 404T / 405T | WOFCOVER400 | WO FAN COVER FOR FRAMES 404T / 405T | $231.18 |
| 444T / 445T | WOFCOVER440 | WO FAN COVER FOR FRAMES 444T / 445T | $258.35 |

# MOTOR ACCESSORIES / PARTS
# WORLDWIDE VERTICAL HOLLOW SHAFT MOTORS
## *Couplings*




ALL DIMENSIONS IN INCHES

| Frame Size | Model Number | Nominal BX | BY | BZ | XB | XE | XF | SQ Key (EW) | List Price |
|---|---|---|---|---|---|---|---|---|---|
| Couplings | | | | | | | | | |
| 280TP | WCK280-.75 | ¾ | 10 - 32 | 1 ⅜ | 2 ⁹⁄₁₆ | 2 ¼ | 1 ⅝ | ³⁄₁₆ | $114.49 |
| | WCK280-.875 | ⅞ | 10 - 32 | 1 ⅜ | 2 ⁹⁄₁₆ | 2 ¼ | 1 ⅝ | ³⁄₁₆ | $114.49 |
| | WCK280-1 | 1 | 10 - 32 | 1 ⅜ | 2 ⁹⁄₁₆ | 2 ¼ | 1 ⅝ | ¼ | $114.49 |
| | WCK280-1.0625 | 1 ¹⁄₁₆ | 10 - 32 | 1 ⅜ | 2 ⁹⁄₁₆ | 2 ¼ | 1 ⅝ | ¼ | $114.49 |
| | WCK280-1.1875 | 1 ³⁄₁₆ | ¼ - 20 | 1 ¾ | 2 ⁹⁄₁₆ | 2 ¼ | 1 ⅝ | ¼ | $114.49 |
| | WCK280-1.25-.25 | 1 ¼ | ¼ - 20 | 1 ¾ | 2 ⁹⁄₁₆ | 2 ¼ | 1 ⅝ | ¼ | $114.49 |
| | WCK280-1.25-.375 | 1 ¼ | ¼ - 20 | 1 ¾ | 2 ⁹⁄₁₆ | 2 ¼ | 1 ⅝ | ⅜ | $114.49 |
| 320TP VHSN60 | WCK320-1 | 1 | ¼ - 20 | 1 ¾ | 2 ¹⁵⁄₁₆ | 2 ⅞ | 1 ¹⁵⁄₁₆ | ¼ | $123.96 |
| | WCK320-1.1875 | 1 ³⁄₁₆ | ¼ - 20 | 1 ¾ | 2 ¹⁵⁄₁₆ | 2 ⅞ | 1 ¹⁵⁄₁₆ | ¼ | $123.96 |
| | WCK320-1.25-.25 | 1 ¼ | ¼ - 20 | 1 ¾ | 2 ¹⁵⁄₁₆ | 2 ⅞ | 1 ¹⁵⁄₁₆ | ¼ | $123.96 |
| | WCK320-1.25-.375 | 1 ¼ | ¼ - 20 | 1 ¾ | 2 ¹⁵⁄₁₆ | 2 ⅞ | 1 ¹⁵⁄₁₆ | ⅜ | $123.96 |
| | WCK320-1.3125 | 1 ⁵⁄₁₆ | ¼ - 20 | 1 ¾ | 2 ¹⁵⁄₁₆ | 2 ⅞ | 1 ¹⁵⁄₁₆ | ⅜ | $123.96 |
| | WCK320-1.4375 | 1 ⁷⁄₁₆ | ¼ - 20 | 2 ⅛ | 2 ¹⁵⁄₁₆ | 2 ⅞ | 1 ¹⁵⁄₁₆ | ⅜ | $123.96 |
| | WCK320-1.5 | 1 ½ | ¼ - 20 | 2 ⅛ | 2 ¹⁵⁄₁₆ | 2 ⅞ | 1 ¹⁵⁄₁₆ | ⅜ | $123.96 |
| 360TP | WCK360-1 | 1 | ¼ - 20 | 1 ¾ | 2 ¹⁵⁄₁₆ | 2 ⅞ | 1 ¹⁵⁄₁₆ | ¼ | $143.71 |
| | WCK360-1.1875 | 1 ³⁄₁₆ | ¼ - 20 | 1 ¾ | 2 ¹⁵⁄₁₆ | 2 ⅞ | 1 ¹⁵⁄₁₆ | ¼ | $143.71 |
| | WCK360-1.25-.25 | 1 ¼ | ¼ - 20 | 1 ¾ | 2 ¹⁵⁄₁₆ | 2 ⅞ | 1 ¹⁵⁄₁₆ | ¼ | $143.71 |
| | WCK360-1.25-.375 | 1 ¼ | ¼ - 20 | 1 ¾ | 2 ¹⁵⁄₁₆ | 2 ⅞ | 1 ¹⁵⁄₁₆ | ⅜ | $143.71 |
| | WCK360-1.3125 | 1 ⁵⁄₁₆ | ¼ - 20 | 1 ¾ | 2 ¹⁵⁄₁₆ | 2 ⅞ | 1 ¹⁵⁄₁₆ | ⅜ | $143.71 |
| | WCK360-1.4375 | 1 ⁷⁄₁₆ | ¼ - 20 | 2 ⅛ | 2 ¹⁵⁄₁₆ | 2 ⅞ | 1 ¹⁵⁄₁₆ | ⅜ | $143.71 |
| | WCK360-1.5 | 1 ½ | ¼ - 20 | 2 ⅛ | 2 ¹⁵⁄₁₆ | 2 ⅞ | 1 ¹⁵⁄₁₆ | ⅜ | $143.71 |
| 400TP | WCK400-1.1875 | 1 ³⁄₁₆ | ¼ - 20 | 2 ⅛ | 3 ¹³⁄₃₂ | 3 ⅛ | 2 ¹³⁄₃₂ | ¼ | $165.02 |
| | WCK400-1.25-.25 | 1 ¼ | ¼ - 20 | 2 ⅛ | 3 ¹³⁄₃₂ | 3 ⅛ | 2 ¹³⁄₃₂ | ¼ | $165.02 |
| | WCK400-1.25-.375 | 1 ¼ | ¼ - 20 | 2 ⅛ | 3 ¹³⁄₃₂ | 3 ⅛ | 2 ¹³⁄₃₂ | ⅜ | $165.02 |
| | WCK400-1.4375 | 1 ⁷⁄₁₆ | ¼ - 20 | 2 ⅛ | 3 ¹³⁄₃₂ | 3 ⅛ | 2 ¹³⁄₃₂ | ⅜ | $165.02 |
| | WCK400-1.5 | 1 ½ | ¼ - 20 | 2 ⅛ | 3 ¹³⁄₃₂ | 3 ⅛ | 2 ¹³⁄₃₂ | ⅜ | $165.02 |
| | WCK400-1.5625 | 1 ⁹⁄₁₆ | ¼ - 20 | 2 ½ | 3 ¹³⁄₃₂ | 3 ⅛ | 2 ¹³⁄₃₂ | ⅜ | $165.02 |
| | WCK400-1.6875 | 1 ¹¹⁄₁₆ | ¼ - 20 | 2 ½ | 3 ¹³⁄₃₂ | 3 ⅛ | 2 ¹³⁄₃₂ | ⅜ | $165.02 |
| | WCK400-1.8125 | 1 ¹³⁄₁₆ | ¼ - 20 | 2 ½ | 3 ¹³⁄₃₂ | 3 ⅛ | 2 ¹³⁄₃₂ | ⅜ | $165.02 |
| 440TP | WCK440-1.3125 | 1 ⁵⁄₁₆ | ¼ - 20 | 2 ½ | 4 | 3 ¹¹⁄₁₆ | 2 ⅞ | ⅜ | $274.78 |
| | WCK440-1.4375 | 1 ⁷⁄₁₆ | ¼ - 20 | 2 ½ | 4 | 3 ¹¹⁄₁₆ | 2 ⅞ | ⅜ | $274.78 |
| | WCK440-1.5 | 1 ½ | ¼ - 20 | 2 ½ | 4 | 3 ¹¹⁄₁₆ | 2 ⅞ | ⅜ | $274.78 |
| | WCK440-1.6875 | 1 ¹¹⁄₁₆ | ¼ - 20 | 2 ½ | 4 | 3 ¹¹⁄₁₆ | 2 ⅞ | ⅜ | $274.78 |
| | WCK440-1.75 | 1 ¾ | ¼ - 20 | 2 ½ | 4 | 3 ¹¹⁄₁₆ | 2 ⅞ | ⅜ | $274.78 |
| | WCK440-1.9375 | 1 ¹⁵⁄₁₆ | ¼ - 20 | 2 ½ | 4 | 3 ¹¹⁄₁₆ | 2 ⅞ | ½ | $274.78 |
| | WCK440-2.1875 | 2 ³⁄₁₆ | ¼ - 20 | 3 ¼ | 4 | 3 ¹¹⁄₁₆ | 2 ⅞ | ½ | $274.78 |

# MOTOR ACCESSORIES / PARTS
# WORLDWIDE VERTICAL HOLLOW SHAFT MOTORS

| Frame Size | Model Number | Description | List Price |
|---|---|---|---|
| JUNCTION BOXES | | | |
| 284TPA / 286TPA | VHSJBOX280 | JUNCTION BOX FOR FRAMES 284TPA / 286TPA | $41.74 |
| 284TPH / 286TPH | VHSJBOX280 | JUNCTION BOX FOR FRAMES 284TPH / 286TPH | $41.74 |
| 324TP / 326TP | VHSJBOX320 | JUNCTION BOX FOR FRAMES 324TP / 326TP | $75.60 |
| 324TPH / 326TPH | VHSJBOX320 | JUNCTION BOX FOR FRAMES 324TPH / 326TPH | $75.60 |
| 364TP / 365TP | VHSJBOX360/400 | JUNCTION BOX FOR FRAMES 364TP / 365TP | $125.22 |
| 404TP / 405TP | VHSJBOX360/400 | JUNCTION BOX FOR FRAMES 404TP / 405TP | $125.22 |
| 444TP / 445TP | VHSJBOX440 | JUNCTION BOX FOR FRAMES 444TP / 445TP | $182.79 |
| 444TPA / 445TPA | VHSJBOX440 | JUNCTION BOX FOR FRAMES 444TPA / 445TPA | $182.79 |
| LIFTING RINGS - 2 REQUIRED PER MOTOR - SOLD INDIVIDUALLY | | | |
| 284TPA / 286TPA | VHSLR280/320 | LIFTING RING FOR FRAMES 284TPA / 286TPA | $8.64 |
| 284TPH / 286TPH | VHSLR280/320 | LIFTING RING FOR FRAMES 284TPH / 286TPH | $8.64 |
| 324TP / 326TP | VHSLR280/320 | LIFTING RING FOR FRAMES 324TP / 326TP | $8.64 |
| 324TPH / 326TPH | VHSLR280/320 | LIFTING RING FOR FRAMES 324TPH / 326TPH | $8.64 |
| 364TP / 365TP | VHSLR360/400 | LIFTING RING FOR FRAMES 364TP / 365TP | $12.95 |
| 404TP / 405TP | VHSLR360/400 | LIFTING RING FOR FRAMES 404TP / 405TP | $12.95 |
| 444TP / 445TP | VHSLR440 | LIFTING RING FOR FRAMES 444TP / 445TP | $16.59 |
| 444TPA / 445TPA | VHSLR440 | LIFTING RING FOR FRAMES 444TPA / 445TPA | $16.59 |
| TOP COVERS | | | |
| 284TPA / 286TPA | VHSTC280 | TOP COVER FOR FRAMES 284TPA / 286TPA | $79.16 |
| 284TPH / 286TPH | VHSTC280 | TOP COVER FOR FRAMES 284TPH / 286TPH | $79.16 |
| 324TP / 326TP | VHSTC320 | TOP COVER FOR FRAMES 324TP / 326TP | $97.19 |
| 324TPH / 326TPH | VHSTC320 | TOP COVER FOR FRAMES 324TPH / 326TPH | $97.19 |
| 364TP / 365TP | VHSTC360 | TOP COVER FOR FRAMES 364TP / 365TP | $153.32 |
| 404TP / 405TP | VHSTC400 | TOP COVER FOR FRAMES 404TP / 405TP | $153.32 |
| 444TP / 445TP | VHSTC440 | TOP COVER FOR FRAMES 444TP / 445TP | $222.40 |
| 444TPA / 445TPA | VHSTC440 | TOP COVER FOR FRAMES 444TPA / 445TPA | $222.40 |
| TOP COVER ASSEMBLIES | | | |
| 284TPA / 286TPA | VHSCOVERASSY280 | TOP COVER ASSEMBLY FOR FRAMES 284TPA / 286TPA | $897.44 |
| 284TPH / 286TPH | VHSCOVERASSY280 | TOP COVER ASSEMBLY FOR FRAMES 284TPH / 286TPH | $897.44 |
| 324TP / 326TP | VHSCOVERASSY320 | TOP COVER ASSEMBLY FOR FRAMES 324TP / 326TP | $1,055.75 |
| 324TPH / 326TPH | VHSCOVERASSY320 | TOP COVER ASSEMBLY FOR FRAMES 324TPH / 326TPH | $1,055.75 |
| 364TP / 365TP | VHSCOVERASSY360 | TOP COVER ASSEMBLY FOR FRAMES 364TP / 365TP | $1,247.19 |
| 404TP / 405TP | VHSCOVERASSY400 | TOP COVER ASSEMBLY FOR FRAMES 404TP / 405TP | $1,247.19 |
| 444TP / 445TP | VHSCOVERASSY440 | TOP COVER ASSEMBLY FOR FRAMES 444TP / 445TP | $1,961.76 |
| 444TPA / 445TPA | VHSCOVERASSY440 | TOP COVER ASSEMBLY FOR FRAMES 444TPA / 445TPA | $1,961.76 |
| LOWER COVER ASSEMBLIES | | | |
| 284TPA | VHSLCA280TPA-25HP | LOWER COVER ASSEMBLY FOR FRAME 284TPA - 25HP | $635.48 |
| 284TPH | VHSLCA280TPH-25HP | LOWER COVER ASSEMBLY FOR FRAME 284TPH - 25HP | $690.86 |
| 286TPA | VHSLCA280TPA-30HP | LOWER COVER ASSEMBLY FOR FRAME 286TPA - 30HP | $635.48 |
| 286TPH | VHSLCA280TPH-30HP | LOWER COVER ASSEMBLY FOR FRAME 286TPH - 30HP | $690.86 |
| 324TP | VHSLCA320TP-40HP | LOWER COVER ASSEMBLY FOR FRAME 324TP - 40HP | $740.55 |
| 324TPH | VHSLCA320TPH-40HP | LOWER COVER ASSEMBLY FOR FRAME 324TPH - 40HP | $677.22 |
| 326TP | VHSLCA320TP-50HP | LOWER COVER ASSEMBLY FOR FRAME 326TP - 50HP | $740.55 |
| 326TPH | VHSLCA320TPH-50HP | LOWER COVER ASSEMBLY FOR FRAME 326TPH - 50HP | $677.22 |
| 444TP | VHSLCA440TP-150HP | LOWER COVER ASSEMBLY FOR FRAME 444TP - 150HP | $1,355.82 |
| 444TPA | VHSLCA440TPA-150HP | LOWER COVER ASSEMBLY FOR FRAME 444TPA - 150HP | $1,450.81 |
| 445TP | VHSLCA440TP-200HP | LOWER COVER ASSEMBLY FOR FRAME 445TP - 200HP | $1,355.82 |
| 445TPA | VHSLCA440TPA-200HP | LOWER COVER ASSEMBLY FOR FRAME 445TPA - 200HP | $1,450.81 |

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# MOTOR ACCESSORIES / PARTS
# WORLDWIDE VERTICAL HOLLOW SHAFT MOTORS

| Frame Size | Model Number | Description | List Price |
|---|---|---|---|
| LOWER COVER MESH | | | |
| 284TPA / 286TPA | VHSLM280TPA | LOWER COVER MESH FOR FRAMES 284TPA / 286TPA | $12.27 |
| 284TPH / 286TPH | VHSLM280TPH | LOWER COVER MESH FOR FRAMES 284TPH / 286TPH | $12.27 |
| 324TP / 326TP | VHSLM320TP | LOWER COVER MESH FOR FRAMES 324TP / 326TP | $16.59 |
| 324TPH / 326TPH | VHSLM320TPH | LOWER COVER MESH FOR FRAMES 324TPH / 326TPH | $16.59 |
| 364TP / 365TP | VHSLM360/400TP | LOWER COVER MESH FOR FRAMES 364TP / 365TP | $22.34 |
| 404TP / 405TP | VHSLM360/400TP | LOWER COVER MESH FOR FRAMES 404TP / 405TP | $22.34 |
| 444TP / 445TP | VHSLM440TP | LOWER COVER MESH FOR FRAMES 444TP / 445TP | $22.34 |
| 444TPA / 445TPA | VHSLM440TPA | LOWER COVER MESH FOR FRAMES 444TPA / 445TPA | $22.34 |
| AIR INLET / OUTLET MESH - 8 REQUIRED PER MOTOR - SOLD AS A SET | | | |
| 284TPA / 286TPA | VHSAIOM280 | AIR INLET / OUTLET MESH FOR FRAMES 284TPA / 286TPA | $69.84 |
| 284TPH / 286TPH | VHSAIOM280 | AIR INLET / OUTLET MESH FOR FRAMES 284TPH / 286TPH | $69.84 |
| 324TP / 326TP | VHSAIOM320 | AIR INLET / OUTLET MESH FOR FRAMES 324TP / 326TP | $103.64 |
| 324TPH / 326TPH | VHSAIOM320 | AIR INLET / OUTLET MESH FOR FRAMES 324TPH / 326TPH | $103.64 |
| 364TP / 365TP | VHSAIOM360/400 | AIR INLET / OUTLET MESH FOR FRAMES 364TP / 365TP | $138.93 |
| 404TP / 405TP | VHSAIOM360/400 | AIR INLET / OUTLET MESH FOR FRAMES 404TP / 405TP | $138.93 |
| 444TP / 445TP | VHSAIM440 | AIR INLET MESH FOR FRAMES 444TP / 445TP | $83.11 |
| 444TPA / 445TPA | VHSAIM440 | AIR INLET MESH FOR FRAMES 444TPA / 445TPA | $83.11 |
| 444TP / 445TP | VHSAOM440 | AIR OUTLET MESH FOR FRAMES 444TP / 445TP | $83.11 |
| 444TPA / 445TPA | VHSAOM440 | AIR OUTLET MESH FOR FRAMES 444TPA / 445TPA | $83.11 |
| REVERSE PROOF DEVICES | | | |
| 284TPA / 286TPA | VHSRPD280 | REVERSE PROOF DEVICE FOR FRAMES 284TPA / 286TPA | $56.13 |
| 284TPH / 286TPH | VHSRPD280 | REVERSE PROOF DEVICE FOR FRAMES 284TPH / 286TPH | $56.13 |
| 324TP / 326TP | VHSRPD320 | REVERSE PROOF DEVICE FOR FRAMES 324TP / 326TP | $94.99 |
| 324TPH / 326TPH | VHSRPD320 | REVERSE PROOF DEVICE FOR FRAMES 324TPH / 326TPH | $94.99 |
| 364TP / 365TP | VHSRPD360/400 | REVERSE PROOF DEVICE FOR FRAMES 364TP / 365TP | $126.66 |
| 404TP / 405TP | VHSRPD360/400 | REVERSE PROOF DEVICE FOR FRAMES 404TP / 405TP | $126.66 |
| 444TP / 445TP | VHSRPD440 | REVERSE PROOF DEVICE FOR FRAMES 444TP / 445TP | $215.89 |
| 444TPA / 445TPA | VHSRPD440 | REVERSE PROOF DEVICE FOR FRAMES 444TPA / 445TPA | $215.89 |
| REVERSE PROOF DISKS | | | |
| 284TPA / 286TPA | VHSRPDI280 | REVERSE PROOF DISK FOR FRAMES 284TPA / 286TPA | $79.16 |
| 284TPH / 286TPH | VHSRPDI280 | REVERSE PROOF DISK FOR FRAMES 284TPH / 286TPH | $79.16 |
| 324TP / 326TP | VHSRPDI320 | REVERSE PROOF DISK FOR FRAMES 324TP / 326TP | $101.51 |
| 324TPH / 326TPH | VHSRPDI320 | REVERSE PROOF DISK FOR FRAMES 324TPH / 326TPH | $101.51 |
| 364TP / 365TP | VHSRPDI360/400 | REVERSE PROOF DISK FOR FRAMES 364TP / 365TP | $176.34 |
| 404TP / 405TP | VHSRPDI360/400 | REVERSE PROOF DISK FOR FRAMES 404TP / 405TP | $176.34 |
| 444TP / 445TP | VHSRPDI440 | REVERSE PROOF DISK FOR FRAMES 444TP / 445TP | $254.07 |
| 444TPA / 445TPA | VHSRPDI440 | REVERSE PROOF DISK FOR FRAMES 444TPA / 445TPA | $254.07 |
| BALL BEARINGS - WITH 2 COVERS | | | |
| 284TPA / 286TPA | VHSBB2C280 | BALL BEARING FOR FRAMES 284TPA / 286TPA | $61.89 |
| 284TPH / 286TPH | VHSBB2C280 | BALL BEARING FOR FRAMES 284TPH / 286TPH | $61.89 |
| 324TP / 326TP | VHSBB2C320 | BALL BEARING FOR FRAMES 324TP / 326TP | $71.28 |
| 324TPH / 326TPH | VHSBB2C320 | BALL BEARING FOR FRAMES 324TPH / 326TPH | $71.28 |
| 364TP / 365TP | VHSBB2C360/400 | BALL BEARING FOR FRAMES 364TP / 365TP | $189.52 |
| 404TP / 405TP | VHSBB2C360/400 | BALL BEARING FOR FRAMES 404TP / 405TP | $189.52 |
| 444TP / 445TP | VHSBB2C440 | BALL BEARING FOR FRAMES 444TP / 445TP | $271.34 |
| 444TPA / 445TPA | VHSBB2C440 | BALL BEARING FOR FRAMES 444TPA / 445TPA | $271.34 |



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# MOTOR ACCESSORIES / PARTS
# WORLDWIDE VERTICAL HOLLOW SHAFT MOTORS

| Frame Size | Model Number | Description | List Price |
|---|---|---|---|
| THRUST BEARINGS | | | |
| 284TPA / 286TPA | VHSTB280 | THRUST BEARING FOR FRAMES 284TPA / 286TPA | $112.27 |
| 284TPH / 286TPH | VHSTB280 | THRUST BEARING FOR FRAMES 284TPH / 286TPH | $112.27 |
| 324TP / 326TP | VHSTB320 | THRUST BEARING FOR FRAMES 324TP / 326TP | $341.12 |
| 324TPH / 326TPH | VHSTB320 | THRUST BEARING FOR FRAMES 324TPH / 326TPH | $341.12 |
| 364TP / 365TP | VHSTB360/400 | THRUST BEARING FOR FRAMES 364TP / 365TP | $432.54 |
| 404TP / 405TP | VHSTB360/400 | THRUST BEARING FOR FRAMES 404TP / 405TP | $432.54 |
| 444TP / 445TP | VHSTB440 | THRUST BEARING FOR FRAMES 444TP / 445TP | $1,213.33 |
| 444TPA / 445TPA | VHSTB440 | THRUST BEARING FOR FRAMES 444TPA / 445TPA | $1,213.33 |
| OIL FLOW DEVICES | | | |
| 284TPA / 286TPA | VHSOFD280 | OIL FLOW DEVICE FOR FRAMES 284TPA / 286TPA | $15.84 |
| 284TPH / 286TPH | VHSOFD280 | OIL FLOW DEVICE FOR FRAMES 284TPH / 286TPH | $15.84 |
| 324TP / 326TP | VHSOFD320 | OIL FLOW DEVICE FOR FRAMES 324TP / 326TP | $22.34 |
| 324TPH / 326TPH | VHSOFD320 | OIL FLOW DEVICE FOR FRAMES 324TPH / 326TPH | $22.34 |
| 364TP / 365TP | VHSOFD360/400 | OIL FLOW DEVICE FOR FRAMES 364TP / 365TP | $23.78 |
| 404TP / 405TP | VHSOFD360/400 | OIL FLOW DEVICE FOR FRAMES 404TP / 405TP | $23.78 |
| 444TP / 445TP | VHSOFD440 | OIL FLOW DEVICE FOR FRAMES 444TP / 445TP | $67.65 |
| 444TPA / 445TPA | VHSOFD440 | OIL FLOW DEVICE FOR FRAMES 444TPA / 445TPA | $67.65 |
| OIL SIGHT GLASS | | | |
| ALL | VHSSGN | OIL SIGHT GLASS | $55.14 |
| O-RINGS - 2 REQUIRED PER MOTOR - SOLD AS A SET | | | |
| 284TPA / 286TPA | O280TP | O-RINGS FOR FRAMES 284TPA / 286TPA | $4.31 |
| 284TPH / 286TPH | O280TP | O-RINGS FOR FRAMES 284TPH / 286TPH | $4.31 |
| 324TP / 326TP | O320/364TP | O-RINGS FOR FRAMES 324TP / 326TP | $5.75 |
| 324TPH / 326TPH | O320/364TP | O-RINGS FOR FRAMES 324TPH / 326TPH | $5.75 |
| 364TP | O320/364TP | O-RINGS FOR FRAME 364TP | $5.75 |
| 365TP | O365/400TP | O-RINGS FOR FRAME 365TP | $7.19 |
| 404TP / 405TP | O365/400TP | O-RINGS FOR FRAMES 404TP / 405TP | $7.19 |
| 444TP / 445TP | O440TP | O-RINGS FOR FRAMES 444TP / 445TP | $10.06 |
| 444TPA / 445TPA | O440TP | O-RINGS FOR FRAMES 444TPA / 445TPA | $10.06 |
| REPLACEMENT PINS - 3 REQUIRED PER MOTOR - SOLD AS A SET | | | |
| 284TPA / 286TPA | VHSPINS280/320 | REPLACEMENT PINS FOR FRAMES 284TPA / 286TPA | $4.50 |
| 284TPH / 286TPH | VHSPINS280/320 | REPLACEMENT PINS FOR FRAMES 284TPH / 286TPH | $4.50 |
| 324TP / 326TP | VHSPINS280/320 | REPLACEMENT PINS FOR FRAMES 324TP / 326TP | $4.50 |
| 324TPH / 326TPH | VHSPINS280/320 | REPLACEMENT PINS FOR FRAMES 324TPH / 326TPH | $4.50 |
| 364TP / 365TP | VHSPINS360/400 | REPLACEMENT PINS FOR FRAMES 364TP / 365TP | $8.81 |
| 404TP / 405TP | VHSPINS360/400 | REPLACEMENT PINS FOR FRAMES 404TP / 405TP | $8.81 |
| 444TP / 445TP | VHSPINS440 | REPLACEMENT PINS FOR FRAMES 444TP / 445TP | $10.13 |
| 444TPA / 445TPA | VHSPINS440 | REPLACEMENT PINS FOR FRAMES 444TPA / 445TPA | $10.13 |

# MOTOR ACCESSORIES / PARTS
# HYUNDAI CROWN TRITON SERIES™
# PREMIUM EFFICIENCY MOTOR
## *Motor C-Flange and D-Flange Kits*





### C-Flange Kits

| Frame Size | Model Number | List Price | Approx. Wt. (lbs.) |
|---|---|---|---|
| 143T / 145T | H140TC | $45.00 | 7 |
| 182T / 184T | H180TC | $64.00 | 14 |
| 213T / 215T | H210TC | $90.00 | 14 |
| 254T / 256T | H250TC | $155.00 | 36 |
| 284T / 286T | H280TC | $195.00 | 38 |
| 324T / 326T | H320TC | $265.00 | 48 |
| 364T / 365T (2 POLE) | H3602PTC | $380.00 | 55 |
| 364T / 365T (4/6 POLE) | H360TC | $380.00 | 55 |
| 404T / 405T (2 POLE) | H4002PTC | $580.00 | 148 |
| 404T / 405T (4/6 POLE) | H400TC | $580.00 | 148 |
| 444T / 445T (2 POLE) | H4402PTC | $580.00 | 155 |
| 444T / 445T (4/6 POLE) | H445TC | $580.00 | 155 |
| 447T (2 POLE) | H4402PTC | $580.00 | 160 |
| 447T (4/6 POLE) | H447TC | $580.00 | 160 |
| 449T (2 POLE) | H4402PTC | $580.00 | 155 |
| 449T (4/6 POLE) | H449TC | $615.00 | 160 |

### D-Flange Kits

| Frame Size | Model Number | List Price | Approx. Wt. (lbs.) |
|---|---|---|---|
| 143T / 145T | H140TD | $140.00 | 7 |
| 182T / 184T | H180TD | $183.00 | 14 |
| 213T / 215T | H210TD | $256.00 | 14 |
| 254T / 256T | H250TD | $300.00 | 36 |
| 284T / 286T | H280TD | $356.00 | 38 |
| 324T / 326T | H320TD | $505.00 | 48 |
| 364T / 365T (2 POLE) | H3602PTD | $655.00 | 55 |
| 364T / 365T (4/6 POLE) | H360TD | $655.00 | 55 |
| 404T / 405T (2 POLE) | H4002PTD | $810.00 | 148 |
| 404T / 405T (4/6 POLE) | H400TD | $810.00 | 148 |
| 444T / 445T (2 POLE) | H4402PTD | $1,010.00 | 155 |
| 444T / 445T (4/6 POLE) | H445TD | $1,010.00 | 155 |
| 447T (2 POLE) | H4402PTD | $1,010.00 | 160 |
| 447T (4/6 POLE) | H447TD | $1,010.00 | 160 |
| 449T (2 POLE) | H4402PTD | $1,010.00 | 155 |
| 449T (4/6 POLE) | H449TD | $1,060.00 | 160 |

# MOTOR ACCESSORIES / PARTS
# HYUNDAI CROWN TRITON SERIES™
# PREMIUM EFFICIENCY MOTORS

| Frame Size | Model Number | Description | List Price |
|---|---|---|---|
| BEARING CAP KITS - DRIVE-END | | | |
| 143T / 145T | — | — | — |
| 182T / 184T | — | — | — |
| 213T / 215T | — | — | — |
| 254T / 256T | — | — | — |
| 284T / 286T | — | — | — |
| 324T / 326T | — | — | — |
| 364T / 365T (2 POLE) | HBCDE2P360 | DE BEARING CAP KIT FOR FRAMES 364T / 365T - 2 POLE | $125.00 |
| 364T / 365T (4/6 POLE) | — | — | — |
| 404T / 405T (2 POLE) | HBCDE2P400 | DE BEARING CAP KIT FOR FRAMES 404T / 405T - 2 POLE | $135.00 |
| 404T / 405T (4/6 POLE) | HBCDE400 | DE BEARING CAP KIT FOR FRAMES 404T / 405T - 4/6 POLE | $135.00 |
| 444T / 445T / 447T / 449T (2 POLE) | HBCDE2P440 | DE BEARING CAP KIT FOR FRAMES 444T / 445T / 447T / 449T - 2 POLE | $140.00 |
| 444T / 445T / 447T / 449T (4/6 POLE) | HBCDE440 | DE BEARING CAP KIT FOR FRAMES 444T / 445T / 447T / 449T - 4/6 POLE | $145.00 |
| BEARING CAP KITS - OPPOSITE DRIVE-END | | | |
| 143T / 145T | — | — | — |
| 182T / 184T | — | — | — |
| 213T / 215T | — | — | — |
| 254T / 256T | — | — | — |
| 284T / 286T | — | — | — |
| 324T / 326T | — | — | — |
| 364T / 365T | HBCDE360 | ODE BEARING CAP KIT FOR FRAMES 364T / 365T | $125.00 |
| 404T / 405T | HBCDE400 | ODE BEARING CAP KIT FOR FRAMES 404T / 405T | $135.00 |
| 444T / 445T / 447T / 449T (2 POLE) | HBCDE2P440 | ODE BEARING CAP KIT FOR FRAMES 444T / 445T / 447T / 449T - 2 POLE | $140.00 |
| 444T / 445T / 447T / 449T (4/6 POLE) | HBCDE440 | ODE BEARING CAP KIT FOR FRAMES 444T / 445T / 447T / 449T - 4/6 POLE | $145.00 |
| DRIP COVER KITS | | | |
| 143T / 145T | DC140 | DRIP COVER KIT FOR FRAMES 143T / 145T | $55.00 |
| 182T / 184T | DC180 | DRIP COVER KIT FOR FRAMES 182T / 184T | $75.00 |
| 213T / 215T | DC210 | DRIP COVER KIT FOR FRAMES 213T / 215T | $80.00 |
| 254T / 256T | DC250 | DRIP COVER KIT FOR FRAMES 254T / 256T | $105.00 |
| 284T / 286T | DC280 | DRIP COVER KIT FOR FRAMES 284T / 286T | $150.00 |
| 324T / 326T | DC320 | DRIP COVER KIT FOR FRAMES 324T / 326T | $180.00 |
| 364T / 365T | DC360 | DRIP COVER KIT FOR FRAMES 364T / 365T | $210.00 |
| 404T / 405T | DC400 | DRIP COVER KIT FOR FRAMES 404T / 405T | $250.00 |
| 444T / 445T / 447T / 449T (2 POLE) | DC440 | DRIP COVER KIT FOR FRAMES 444T / 445T / 447T / 449T | $275.00 |
| ENDBELLS - DRIVE-END | | | |
| 143T / 145T | HESDE140 | DE ENDBELL FOR FRAMES 143T / 145T | $105.00 |
| 182T / 184T | HESDE180 | DE ENDBELL FOR FRAMES 182T / 184T | $135.00 |
| 213T / 215T | HESDE210 | DE ENDBELL FOR FRAMES 213T / 215T | $180.00 |
| 254T / 256T | HESDE250 | DE ENDBELL FOR FRAMES 254T / 256T | $330.00 |
| 284T / 286T | HESDE280 | DE ENDBELL FOR FRAMES 284T / 286T | $435.00 |
| 324T / 326T | HESDE320 | DE ENDBELL FOR FRAMES 324T / 326T | $575.00 |
| 364T / 365T (2 POLE) | HESDE2P360 | DE ENDBELL FOR FRAMES 364T / 365T - 2 POLE | $795.00 |
| 364T / 365T (4/6 POLE) | HESDE360 | DE ENDBELL FOR FRAMES 364T / 365T - 4/6 POLE | $875.00 |
| 404T / 405T (2 POLE) | HESDE2P400 | DE ENDBELL FOR FRAMES 404T / 405T - 2 POLE | $1,125.00 |
| 404T / 405T (4/6 POLE) | HESDE400 | DE ENDBELL FOR FRAMES 404T / 405T - 4/6 POLE | $1,050.00 |
| 444T / 445T / 447T / 449T (2 POLE) | HESDE2P440 | DE ENDBELL FOR FRAMES 444T / 445T / 447T / 449T - 2 POLE | $1,215.00 |
| 444T / 445T / 447T / 449T (4/6 POLE) | HESDE440 | DE ENDBELL FOR FRAMES 444T / 445T / 447T / 449T - 4/6 POLE | $1,315.00 |

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# MOTOR ACCESSORIES / PARTS
# HYUNDAI CROWN TRITON SERIES™
# PREMIUM EFFICIENCY MOTORS

| Frame Size | Model Number | Description | List Price |
|---|---|---|---|
| ENDBELLS - OPPOSITE DRIVE-END | | | |
| 143T / 145T | HESNDE140 | ODE ENDBELL FOR FRAMES 143T / 145T | $105.00 |
| 182T / 184T | HESNDE180 | ODE ENDBELL FOR FRAMES 182T / 184T | $135.00 |
| 213T / 215T | HESNDE210 | ODE ENDBELL FOR FRAMES 213T / 215T | $180.00 |
| 254T / 256T | HESNDE250 | ODE ENDBELL FOR FRAMES 254T / 256T | $330.00 |
| 284T / 286T | HESNDE280 | ODE ENDBELL FOR FRAMES 284T / 286T | $435.00 |
| 324T / 326T | HESNDE320 | ODE ENDBELL FOR FRAMES 324T / 326T | $575.00 |
| 364T / 365T | HESNDE360 | ODE ENDBELL FOR FRAMES 364T / 365T | $875.00 |
| 404T / 405T | HESNDE400 | ODE ENDBELL FOR FRAMES 404T / 405T | $1,050.00 |
| 444T / 445T / 447T / 449T (2 POLE) | HESNDE2P440 | ODE ENDBELL FOR FRAMES 444T / 445T / 447T / 449T - 2 POLE | $1,215.00 |
| 444T / 445T / 447T / 449T (4/6 POLE) | HESNDE440 | ODE ENDBELL FOR FRAMES 444T / 445T / 447T / 449T - 4/6 POLE | $1,175.00 |
| EYEBOLTS | | | |
| 143T / 145T | — | — | — |
| 182T / 184T | NEB180 | EYEBOLT FOR FRAMES 182T / 184T | $25.00 |
| 213T / 215T | NEB210 | EYEBOLT FOR FRAMES 213T / 215T | $25.00 |
| 254T / 256T | NEB250 | EYEBOLT FOR FRAMES 254T / 256T | $40.00 |
| 284T / 286T | NEB280 | EYEBOLT FOR FRAMES 284T / 286T | $40.00 |
| 324T / 326T | NEB320 | EYEBOLT FOR FRAMES 324T / 326T | $45.00 |
| 364T / 365T | NEB360 | EYEBOLT FOR FRAMES 364T / 365T | $50.00 |
| 404T / 405T | NEB400 | EYEBOLT FOR FRAMES 404T / 405T | $60.00 |
| 444T / 445T / 447T / 449T | NEB440 | EYEBOLT FOR FRAMES 444T / 445T / 447T / 449T | $85.00 |
| FANS | | | |
| 143T / 145T (2 POLE) | HF1402P | FAN FOR FRAMES 143T / 145T - 2 POLE | $35.00 |
| 143T / 145T (4/6 POLE) | HF140 | FAN FOR FRAMES 143T / 145T - 4/6 POLE | $35.00 |
| 182T / 184T (2 POLE) | HF1802P | FAN FOR FRAMES 182T / 184T - 2 POLE | $45.00 |
| 182T / 184T (4/6 POLE) | HF1804P6P | FAN FOR FRAMES 182T / 184T - 4/6 POLE | $45.00 |
| 213T / 215T (2/4 POLE) | HF2102P4P | FAN FOR FRAMES 213T / 215T - 2/4 POLE | $50.00 |
| 213T / 215T (6 POLE) | HF2106P | FAN FOR FRAMES 213T / 215T - 6 POLE | $50.00 |
| 254T / 256T (2 POLE) | HF2502P | FAN FOR FRAMES 254T / 256T - 2 POLE | $110.00 |
| 254T / 256T (4/6 POLE) | HF250 | FAN FOR FRAMES 254T / 256T - 4/6 POLE | $100.00 |
| 284T / 286T (2 POLE) | HF2802P | FAN FOR FRAMES 284T / 286T - 2 POLE | $122.00 |
| 284T / 286T (4/6 POLE) | HF280 | FAN FOR FRAMES 284T / 286T - 4/6 POLE | $115.00 |
| 324T / 326T (2 POLE) | HF3202P | FAN FOR FRAMES 324T / 326T - 2 POLE | $150.00 |
| 324T / 326T (4/6 POLE) | HF320 | FAN FOR FRAMES 324T / 326T - 4/6 POLE | $140.00 |
| 364T / 365T (2 POLE) | HF3602P | FAN FOR FRAMES 364T / 365T - 2 POLE | $195.00 |
| 364T / 365T (4 POLE) | HF360 | FAN FOR FRAMES 364T / 365T - 4 POLE | $280.00 |
| 364T / 365T (6 POLE) | HF3606P | FAN FOR FRAMES 364T / 365T - 6 POLE | $280.00 |
| 404T / 405T (2 POLE) | HF4002P | FAN FOR FRAMES 404T / 405T - 2 POLE | $230.00 |
| 404T / 405T (4 POLE) | HF400 | FAN FOR FRAMES 404T / 405T - 4 POLE | $280.00 |
| 404T / 405T (6 POLE) | HF4006P | FAN FOR FRAMES 404T / 405T - 6 POLE | $280.00 |
| 444T / 445T / 447T / 449T (2 POLE) | HF4402P | FAN FOR FRAMES 444T / 445T / 447T / 449T - 2 POLE | $280.00 |
| 444T / 445T / 447T / 449T (4 POLE) | HF440 | FAN FOR FRAMES 444T / 445T / 447T / 449T - 4 POLE | $280.00 |
| 444T (6 POLE) | HF446P | FAN FOR FRAMES 444T - 6 POLE | $280.00 |
| 445T (6 POLE) | HF4456P | FAN FOR FRAMES 444T - 6 POLE | $280.00 |
| 447T (6 POLE) | HF4476P | FAN FOR FRAMES 447T - 6 POLE | $280.00 |
| 449T (6 POLE) | HF4496P | FAN FOR FRAMES 449T - 6 POLE | $280.00 |



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# MOTOR ACCESSORIES / PARTS
# HYUNDAI CROWN TRITON SERIES™
# PREMIUM EFFICIENCY MOTORS

| Frame Size | Model Number | Description | List Price |
|---|---|---|---|
| FAN COVERS - STEEL | | | |
| 143T / 145T | HSFC140 | FAN COVER (STEEL) FOR FRAMES 143T / 145T | $51.00 |
| 182T / 184T | HSFC180 | FAN COVER (STEEL) FOR FRAMES 182T / 184T | $73.00 |
| 213T / 215T | HSFC210 | FAN COVER (STEEL) FOR FRAMES 213T / 215T | $78.00 |
| 254T / 256T | HSFC250 | FAN COVER (STEEL) FOR FRAMES 254T / 256T | $134.00 |
| 284T / 286T | HSFC280 | FAN COVER (STEEL) FOR FRAMES 284T / 286T | $185.00 |
| 324T / 326T | HSFC320 | FAN COVER (STEEL) FOR FRAMES 324T / 326T | $225.00 |
| 364T / 365T | HSFC360 | FAN COVER (STEEL) FOR FRAMES 364T / 365T | $365.00 |
| 404T / 405T | HSFC400 | FAN COVER (STEEL) FOR FRAMES 404T / 405T | $425.00 |
| 444T / 445T / 447T / 449T | HSFC440 | FAN COVER (STEEL) FOR FRAMES 444T / 445T / 447T / 449T | $500.00 |
| FAN COVERS - CAST IRON | | | |
| 143T / 145T | HCIFC140 | FAN COVER (CAST IRON) FOR FRAMES 143T / 145T | $95.00 |
| 182T / 184T | HCIFC180 | FAN COVER (CAST IRON) FOR FRAMES 182T / 184T | $105.00 |
| 213T / 215T | HCIFC210 | FAN COVER (CAST IRON) FOR FRAMES 213T / 215T | $140.00 |
| 254T / 256T | HCIFC250 | FAN COVER (CAST IRON) FOR FRAMES 254T / 256T | $225.00 |
| 284T / 286T | HCIFC280 | FAN COVER (CAST IRON) FOR FRAMES 284T / 286T | $275.00 |
| 324T / 326T | HCIFC320 | FAN COVER (CAST IRON) FOR FRAMES 324T / 326T | $375.00 |
| JUNCTION BOXES - INCLUDES BOX & COVER | | | |
| 143T / 145T | HJBOX140 | JUNCTION BOX FOR FRAMES 143T / 145T | $75.00 |
| 182T / 184T | HJBOX180 | JUNCTION BOX FOR FRAMES 182T / 184T | $82.00 |
| 213T / 215T | HJBOX210 | JUNCTION BOX FOR FRAMES 213T / 215T | $85.00 |
| 254T / 256T | HJBOX250 | JUNCTION BOXFOR FRAMES 254T / 256T | $195.00 |
| 284T / 286T | HJBOX280 | JUNCTION BOX FOR FRAMES 284T / 286T | $200.00 |
| 324T / 326T | HJBOX320 | JUNCTION BOX FOR FRAMES 324T / 326T | $485.00 |
| 364T / 365T | HJBOX360 | JUNCTION BOX FOR FRAMES 364T / 365T | $550.00 |
| 404T / 405T | HJBOX400 | JUNCTION BOX FOR FRAMES 404T / 405T | $885.00 |
| 444T / 445T / 447T / 449T | HJBOX440 | JUNCTION BOX FOR FRAMES 444T / 445T / 447T / 449T | $900.00 |

# WORLDWIDE ELECTRIC CORPORATION
# *"INSTA-MOD"* PROGRAM FOR ELECTRIC MOTORS

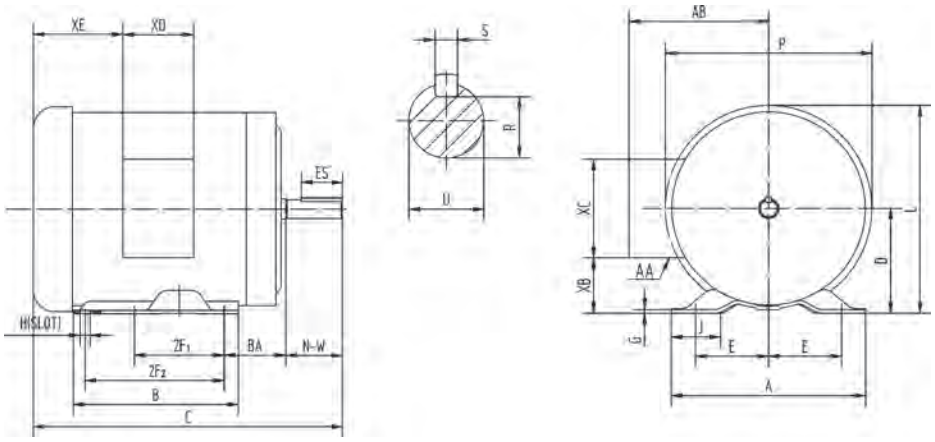
| Frame | 143T 145T | 182T 184T | 213T 215T | 254T 256T | 284T 286T | 324T 326T | 364T 365T | 404T 405T | 444T 445T | 447T | 449T | 505Z 505UZ | 586/7 586/7UZ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C-Flange D-Flange Adaptation | $352 | $352 | $352 | $352 | $352 | $352 | $440 | $528 | $528 | $704 | $704 | $704 | $704 |
| F1 to F2 Mount Conversion | $352 | $352 | $352 | $352 | $352 | $352 | $440 | $880 | $880 | $880 | $880 | $1,056 | $1,232 |
| Turn Down T to TS Short Shaft | $1,373 | $1,373 | $1,373 | $1,373 | $1,373 | $1,568 | $1,568 | $1,568 | $1,832 | $1,832 | $1,832 | $2,059 | $2,059 |
| Space Heaters 120 or 240 Volt | $443 | $443 | $443 | $443 | $443 | $528 | $528 | $613 | $613 | $656 | $656 | $656 | $795 |
| Bearing Change Roller to Ball | PLEASE CALL FOR PRICING | | | | | | | $1,443 | $1,520 | $1,760 | $2,035 | $2,880 | $4,947 |
| Bearing Change Ball to Roller | PLEASE CALL FOR PRICING | | | | | | | $1,965 | $2,517 | $2,883 | $3,184 | $4,045 | $6,160 |
| Winding Thermistors (1 Per Phase) | $496 | $496 | $496 | $579 | $600 | $704 | $704 | $829 | $915 | $915 | $987 | $987 | $1,091 |
| Bearing RTDs or Winding RTDs | $560 | $624 | $624 | $704 | $704 | $795 | $795 | $880 | $912 | $912 | $987 | $987 | $1,147 |
| Fungus Protection / Tropicalization | $320 | $352 | $352 | $443 | $443 | $528 | $528 | $619 | $656 | $656 | $704 | $704 | $795 |

*Modifications for explosion proof motors are available. Please call for pricing.*

# WORLDWIDE FRACTIONAL HP MOTORS

## *General Purpose Motors*

### *TEFC Enclosure ▪ Rigid Base*




### 208-230/460 Volt

ALL DIMENSIONS IN INCHES

| Model | E | 2F1 | 2F2 | H | BA | A | B | C | D | G | J | P | L | AB | S | ES | R | N-W | U | AA | XB | XC | XD | XE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AT13-18-56 | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 11.4 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 1.65 | 3.7 | 3.23 | 2.85 |
| AT12-18-56 | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 11.4 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 1.65 | 3.7 | 3.23 | 2.85 |
| AT34-18-56 | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 11.8 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 1.65 | 3.7 | 3.23 | 2.85 |
| AT1-18-56 | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.2 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 1.65 | 3.7 | 3.23 | 2.85 |
| AT1.5-18-56 | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.6 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 1.65 | 3.7 | 3.23 | 2.85 |
| AT2-18-56 | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 13.8 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 1.65 | 3.7 | 3.23 | 2.85 |

### 575 Volt

ALL DIMENSIONS IN INCHES

| Model | E | 2F1 | 2F2 | H | BA | A | B | C | D | G | J | P | L | AB | S | ES | R | N-W | U | AA | XB | XC | XD | XE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AT13-18-575-56 | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 11.4 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 1.65 | 3.7 | 3.23 | 2.85 |
| AT12-18-575-56 | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 11.4 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 1.65 | 3.7 | 3.23 | 2.85 |
| AT34-18-575-56 | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 11.8 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 1.65 | 3.7 | 3.23 | 2.85 |
| AT1-18-575-56 | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.2 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 1.65 | 3.7 | 3.23 | 2.85 |
| AT1.5-18-575-56 | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.6 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 1.65 | 3.7 | 3.23 | 2.85 |
| AT2-18-575-56 | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 13.8 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 1.65 | 3.7 | 3.23 | 2.85 |



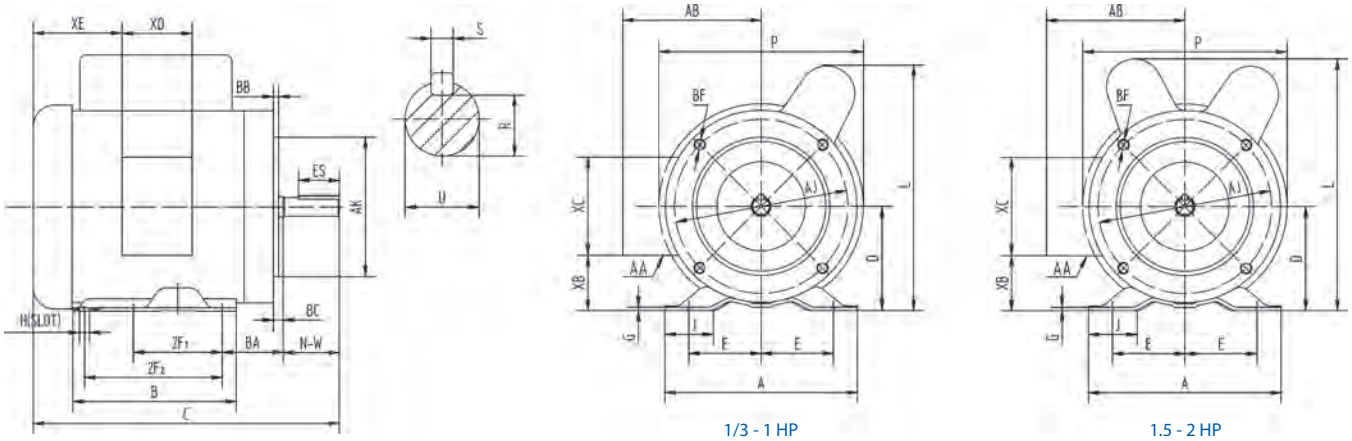
Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

# WORLDWIDE FRACTIONAL HP MOTORS

## *General Purpose Motors*

### *TEFC Enclosure ▪ C-Face ▪ Removable Base*

### *Single-Phase ▪ 115/208-230 Volt*




1/3 - 1 HP

1.5 - 2 HP

## With Manual Overload

ALL DIMENSIONS IN INCHES

| Model | E | 2F1 | 2F2 | H | BA | A | B | C | D | G | J | P | L | AB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T13-18-56CB-OL | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.20 | 3.5 | 0.12 | 1.73 | 6.9 | 8.07 | 5.35 |
| T12-18-56CB-OL | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.20 | 3.5 | 0.12 | 1.73 | 6.9 | 8.07 | 5.35 |
| T34-18-56CB-OL | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.80 | 3.5 | 0.12 | 1.73 | 6.9 | 8.07 | 5.35 |
| T1-18-56CB-OL | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 13.40 | 3.5 | 0.12 | 1.73 | 6.9 | 8.07 | 5.35 |
| T1.5-18-56CB-OL | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 14.09 | 3.5 | 0.12 | 1.73 | 6.9 | 8.50 | 5.35 |
| T2-18-56CB-OL | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 14.88 | 3.5 | 0.12 | 1.73 | 6.9 | 8.50 | 5.35 |

## Without Overload

ALL DIMENSIONS IN INCHES

| Model | E | 2F1 | 2F2 | H | BA | A | B | C | D | G | J | P | L | AB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TJ13-36-56CB-NOL | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.2 | 3.5 | 0.12 | 1.73 | 6.9 | 8.07 | 5.35 |
| T13-18-56CB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.2 | 3.5 | 0.12 | 1.73 | 6.9 | 8.07 | 5.35 |
| TJ12-36-56CB-NOL | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.2 | 3.5 | 0.12 | 1.73 | 6.9 | 8.07 | 5.35 |
| T12-18-56CB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.2 | 3.5 | 0.12 | 1.73 | 6.9 | 8.07 | 5.35 |
| TJ34-36-56CB-NOL | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.2 | 3.5 | 0.12 | 1.73 | 6.9 | 8.07 | 5.35 |
| T34-18-56CB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.2 | 3.5 | 0.12 | 1.73 | 6.9 | 8.07 | 5.35 |
| TJ1-36-56CB-NOL | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.2 | 3.5 | 0.12 | 1.73 | 6.9 | 8.07 | 5.35 |
| T1-18-56CB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.6 | 3.5 | 0.12 | 1.73 | 6.9 | 8.07 | 5.35 |
| TJ1.5-36-56CB-NOL | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 13.0 | 3.5 | 0.12 | 1.73 | 6.9 | 8.50 | 5.35 |
| T1.5-18-56CB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 13.8 | 3.5 | 0.12 | 1.73 | 6.9 | 8.50 | 5.35 |
| TJ2-36-56CB-NOL | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 13.0 | 3.5 | 0.12 | 1.73 | 6.9 | 8.50 | 5.35 |
| T2-18-56CB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 14.6 | 3.5 | 0.12 | 1.73 | 6.9 | 8.50 | 5.35 |



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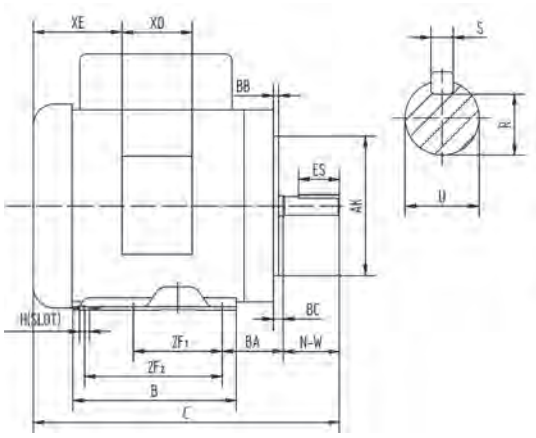
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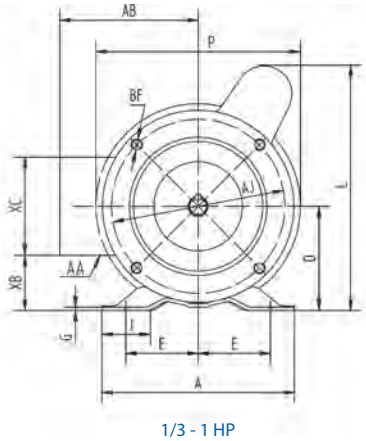
# WORLDWIDE FRACTIONAL HP MOTORS

## *General Purpose Motors*

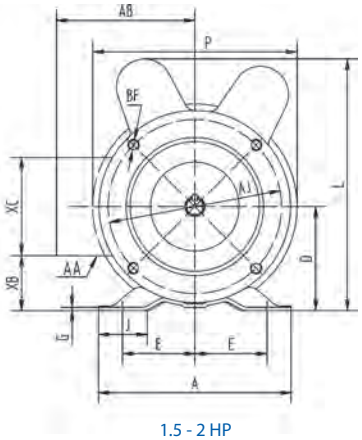
### *TEFC Enclosure ▪ C-Face ▪ Removable Base*

### *Single-Phase ▪ 115/208-230 Volt*




1/3 - 1 HP




1.5 - 2 HP

## With Manual Overload

ALL DIMENSIONS IN INCHES

| Model | S | ES | R | N-W | U | AA | BC | AK | AJ | BF | BB | XB | XC | XD | XE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T13-18-56CB-OL | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| T12-18-56CB-OL | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| T34-18-56CB-OL | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| T1-18-56CB-OL | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| T1.5-18-56CB-OL | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| T2-18-56CB-OL | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |

## Without Overload

ALL DIMENSIONS IN INCHES

| Model | S | ES | R | N-W | U | AA | BC | AK | AJ | BF | BB | XB | XC | XD | XE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TJ13-36-56CB-NOL | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| T13-18-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| TJ12-36-56CB-NOL | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| T12-18-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| TJ34-36-56CB-NOL | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| T34-18-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| TJ1-36-56CB-NOL | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| T1-18-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| TJ1.5-36-56CB-NOL | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| T1.5-18-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| TJ2-36-56CB-NOL | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| T2-18-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |



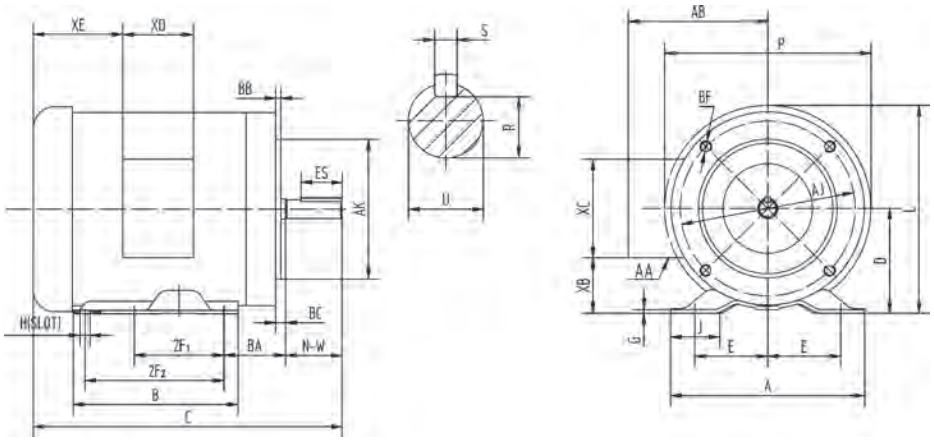
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# WORLDWIDE FRACTIONAL HP MOTORS

## *General Purpose Motors*

### *TEFC Enclosure ▪ C-Face ▪ Removable Base*

### *Three-Phase ▪ 208-230/460 and 575 Volt*




## 208-230/460 Volt

ALL DIMENSIONS IN INCHES

| Model | E | 2F1 | 2F2 | H | BA | A | B | C | D | G | J | P | L | AB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ATJ13-36-56CB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.2 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 |
| AT13-18-56CB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.2 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 |
| ATJ12-36-56CB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.2 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 |
| AT12-18-56CB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.2 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 |
| ATJ34-36-56CB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.2 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 |
| AT34-18-56CB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.2 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 |
| ATJ1-36-56CB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.2 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 |
| AT1-18-56CB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.2 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 |
| ATJ1.5-36-56CB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.2 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 |
| AT1.5-18-56CB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.6 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 |
| ATJ2-36-56CB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.4 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 |
| AT2-18-56CB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 13.8 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 |

## 575 Volt

ALL DIMENSIONS IN INCHES

| Model | E | 2F1 | 2F2 | H | BA | A | B | C | D | G | J | P | L | AB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AT13-18-575-56CB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.2 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 |
| AT12-18-575-56CB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.2 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 |
| AT34-18-575-56CB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.2 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 |
| AT1-18-575-56CB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.2 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 |
| AT1.5-18-575-56CB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.6 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 |
| AT2-18-575-56CB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 13.8 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 |



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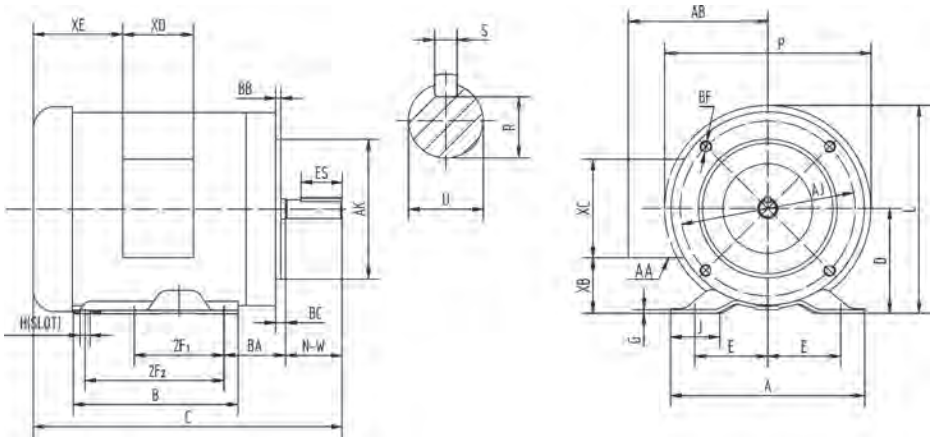
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# WORLDWIDE FRACTIONAL HP MOTORS

## *General Purpose Motors*

### *TEFC Enclosure ▪ C-Face ▪ Removable Base*

### *Three-Phase ▪ 208-230/460 and 575 Volt*




## 208-230/460 Volt

ALL DIMENSIONS IN INCHES

| Model | S | ES | R | N-W | U | AA | BC | AK | AJ | BF | BB | XB | XC | XD | XE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ATJ13-36-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| AT13-18-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| ATJ12-36-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| AT12-18-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| ATJ34-36-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| AT34-18-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| ATJ1-36-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| AT1-18-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| ATJ1.5-36-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| AT1.5-18-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| ATJ2-36-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| AT2-18-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |

## 575 Volt

ALL DIMENSIONS IN INCHES

| Model | S | ES | R | N-W | U | AA | BC | AK | AJ | BF | BB | XB | XC | XD | XE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AT13-18-575-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| AT12-18-575-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| AT34-18-575-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| AT1-18-575-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| AT1.5-18-575-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| AT2-18-575-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |



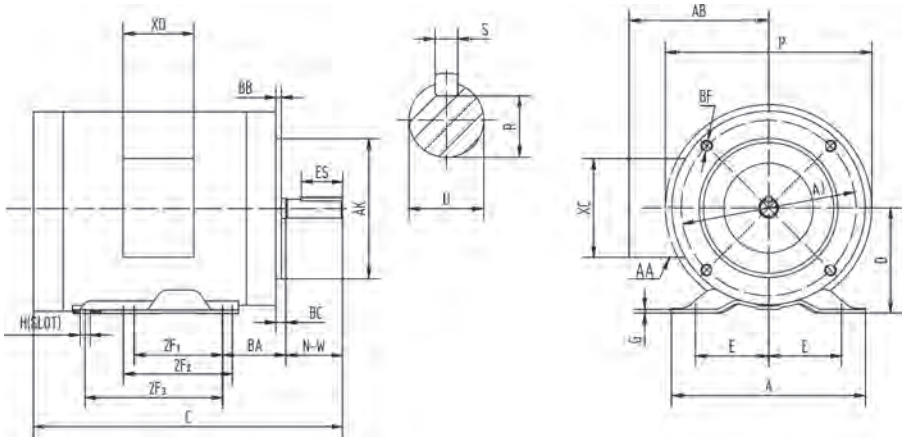
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# WORLDWIDE FRACTIONAL HP MOTORS

## *Stainless Steel / Washdown Duty Motors*

### *TENV Enclosure ▪ C-Face ▪ Rigid Base and Round Body*

### *Three-Phase ▪ 208-230/460 Volt*




## Rigid Base

ALL DIMENSIONS IN INCHES

| Model | E | 2F1 | 2F2 | 2F3 | H | BA | A | C | D | G | P | AB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WSSNV13-18-56CB | 2.44 | 3 | 4 | — | 0.34 | 2.75 | 5.5 | 9.57 | 3.5 | 0.12 | 6.46 | 5.39 |
| WSSNV12-18-56CB | 2.44 | 3 | 4 | — | 0.34 | 2.75 | 5.5 | 9.57 | 3.5 | 0.12 | 6.46 | 5.39 |
| WSSNV34-18-56CB | 2.44 | 3 | 4 | — | 0.34 | 2.75 | 5.5 | 10.55 | 3.5 | 0.12 | 6.46 | 5.39 |
| WSSNV1-18-56CB | 2.44 | 3 | 4 | 5 | 0.34 | 2.75 | 5.5 | 10.55 | 3.5 | 0.12 | 6.46 | 5.39 |

## Round Body

ALL DIMENSIONS IN INCHES

| Model | E | 2F1 | 2F2 | 2F3 | H | BA | A | C | D | G | P | AB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WSSNV13-18-56CRD | — | — | — | — | — | — | — | 9.57 | — | — | 6.46 | 5.39 |
| WSSNV12-18-56CRD | — | — | — | — | — | — | — | 9.57 | — | — | 6.46 | 5.39 |
| WSSNV34-18-56CRD | — | — | — | — | — | — | — | 10.55 | — | — | 6.46 | 5.39 |
| WSSNV1-18-56CRD | — | — | — | — | — | — | — | 10.55 | — | — | 6.46 | 5.39 |



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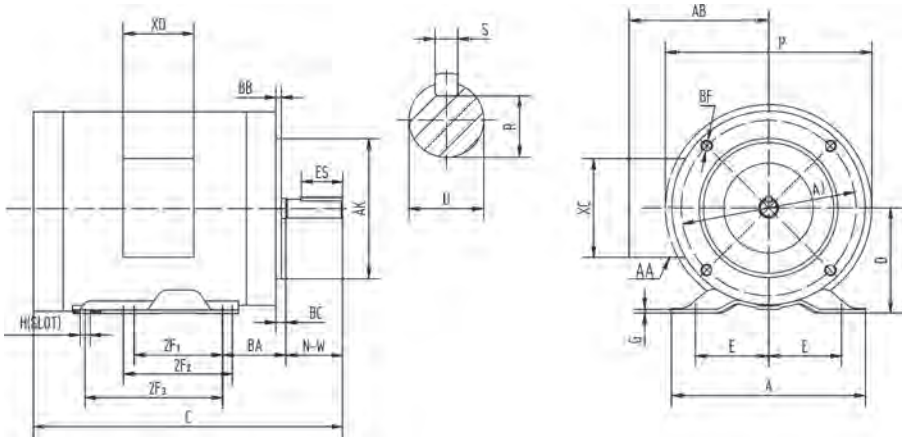
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# WORLDWIDE FRACTIONAL HP MOTORS

## *Stainless Steel / Washdown Duty Motors*

### *TENV Enclosure ▪ C-Face ▪ Rigid Base and Round Body*

### *Three-Phase ▪ 208-230/460 Volt*




## Rigid Base

ALL DIMENSIONS IN INCHES

| Model | S | ES | R | N-W | U | AA | BC | AK | AJ | BF | BB | XC | XD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WSSNV13-18-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.86 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 4.72 | 3.82 |
| WSSNV12-18-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.86 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 4.72 | 3.82 |
| WSSNV34-18-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.86 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 4.72 | 3.82 |
| WSSNV1-18-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.86 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 4.72 | 3.82 |

## Round Body

ALL DIMENSIONS IN INCHES

| Model | S | ES | R | N-W | U | AA | BC | AK | AJ | BF | BB | XC | XD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WSSNV13-18-56CRD | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.86 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 4.72 | 3.82 |
| WSSNV12-18-56CRD | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.86 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 4.72 | 3.82 |
| WSSNV34-18-56CRD | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.86 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 4.72 | 3.82 |
| WSSNV1-18-56CRD | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.86 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 4.72 | 3.82 |



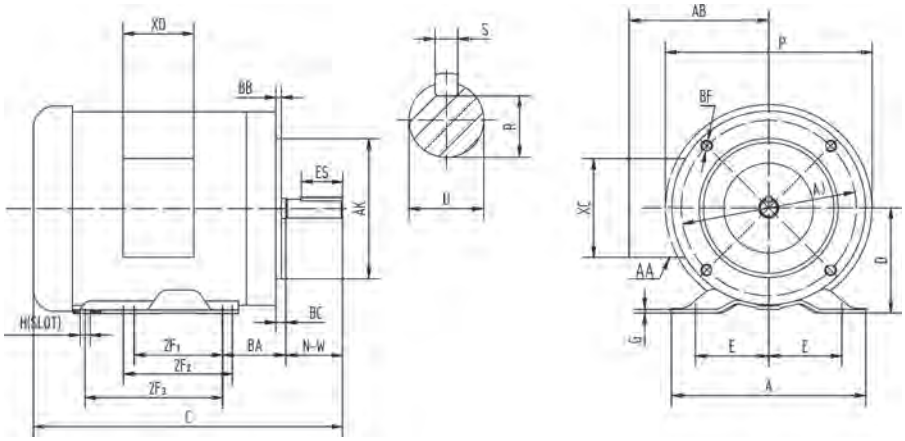
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# WORLDWIDE FRACTIONAL HP MOTORS

## *Stainless Steel / Washdown Duty Motors*

### *TEFC Enclosure ▪ C-Face ▪ Rigid Base and Round Body*

### *Three-Phase ▪ 208-230/460 Volt*




## Rigid Base

ALL DIMENSIONS IN INCHES

| Model | E | 2F1 | 2F2 | 2F3 | H | BA | A | C | D | G | P | AB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WSS13-18-56CB | 2.44 | 3 | 4 | — | 0.34 | 2.75 | 5.5 | 11.77 | 3.5 | 0.12 | 6.46 | 5.39 |
| WSS12-36-56CB | 2.44 | 3 | 4 | — | 0.34 | 2.75 | 5.5 | 11.77 | 3.5 | 0.12 | 6.46 | 5.39 |
| WSS12-18-56CB | 2.44 | 3 | 4 | — | 0.34 | 2.75 | 5.5 | 11.77 | 3.5 | 0.12 | 6.46 | 5.39 |
| WSS34-36-56CB | 2.44 | 3 | 4 | — | 0.34 | 2.75 | 5.5 | 12.76 | 3.5 | 0.12 | 6.46 | 5.39 |
| WSS34-18-56CB | 2.44 | 3 | 4 | — | 0.34 | 2.75 | 5.5 | 12.76 | 3.5 | 0.12 | 6.46 | 5.39 |
| WSS1-36-56CB | 2.44 | 3 | 4 | 5 | 0.34 | 2.75 | 5.5 | 12.76 | 3.5 | 0.12 | 6.46 | 5.39 |
| WSS1-18-56CB | 2.44 | 3 | 4 | 5 | 0.34 | 2.75 | 5.5 | 12.76 | 3.5 | 0.12 | 6.46 | 5.39 |
| WSS1.5-36-56CB | 2.44 | 3 | 4 | 5 | 0.34 | 2.75 | 5.5 | 12.76 | 3.5 | 0.12 | 6.46 | 5.39 |
| WSS1.5-18-56CB | 2.44 | 3 | 4 | 5 | 0.34 | 2.75 | 5.5 | 12.76 | 3.5 | 0.12 | 6.46 | 5.39 |
| WSS2-36-56CB | 2.44 | 3 | 4 | 5 | 0.34 | 2.75 | 5.5 | 13.50 | 3.5 | 0.12 | 6.46 | 5.39 |
| WSS2-18-56CB | 2.44 | 3 | 4 | 5 | 0.34 | 2.75 | 5.5 | 13.50 | 3.5 | 0.12 | 6.46 | 5.39 |

## Round Body

ALL DIMENSIONS IN INCHES

| Model | E | 2F1 | 2F2 | 2F3 | H | BA | A | C | D | G | P | AB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WSS13-18-56CRD | — | — | — | — | — | — | — | 11.77 | — | — | 6.46 | 5.39 |
| WSS12-18-56CRD | — | — | — | — | — | — | — | 11.77 | — | — | 6.46 | 5.39 |
| WSS34-18-56CRD | — | — | — | — | — | — | — | 12.76 | — | — | 6.46 | 5.39 |
| WSS1-18-56CRD | — | — | — | — | — | — | — | 12.76 | — | — | 6.46 | 5.39 |
| WSS1.5-18-56CRD | — | — | — | — | — | — | — | 12.76 | — | — | 6.46 | 5.39 |
| WSS2-18-56CRD | — | — | — | — | — | — | — | 13.50 | — | — | 6.46 | 5.39 |

MOTOR DIMENSIONS

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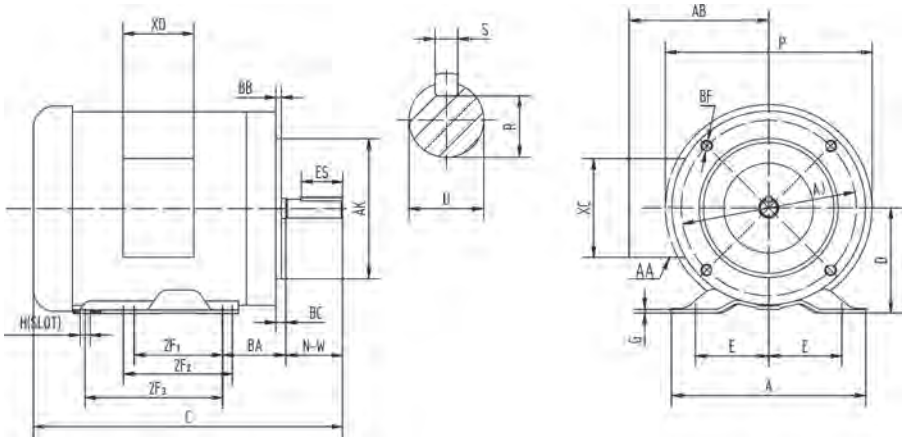
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# WORLDWIDE FRACTIONAL HP MOTORS

## *Stainless Steel / Washdown Duty Motors*

### *TEFC Enclosure ▪ C-Face ▪ Rigid Base and Round Body*

### *Three-Phase ▪ 208-230/460 Volt*




## Rigid Base

ALL DIMENSIONS IN INCHES

| Model | S | ES | R | N-W | U | AA | BC | AK | AJ | BF | BB | XC | XD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WSS13-18-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.86 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 4.72 | 3.82 |
| WSS12-36-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.86 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 4.72 | 3.82 |
| WSS12-18-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.86 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 4.72 | 3.82 |
| WSS34-36-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.86 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 4.72 | 3.82 |
| WSS34-18-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.86 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 4.72 | 3.82 |
| WSS1-36-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.86 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 4.72 | 3.82 |
| WSS1-18-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.86 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 4.72 | 3.82 |
| WSS1.5-36-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.86 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 4.72 | 3.82 |
| WSS1.5-18-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.86 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 4.72 | 3.82 |
| WSS2-36-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.86 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 4.72 | 3.82 |
| WSS2-18-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.86 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 4.72 | 3.82 |

## Round Body

ALL DIMENSIONS IN INCHES

| Model | S | ES | R | N-W | U | AA | BC | AK | AJ | BF | BB | XC | XD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WSS13-18-56CRD | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.86 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 4.72 | 3.82 |
| WSS12-18-56CRD | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.86 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 4.72 | 3.82 |
| WSS34-18-56CRD | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.86 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 4.72 | 3.82 |
| WSS1-18-56CRD | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.86 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 4.72 | 3.82 |
| WSS1.5-18-56CRD | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.86 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 4.72 | 3.82 |
| WSS2-18-56CRD | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.86 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 4.72 | 3.82 |

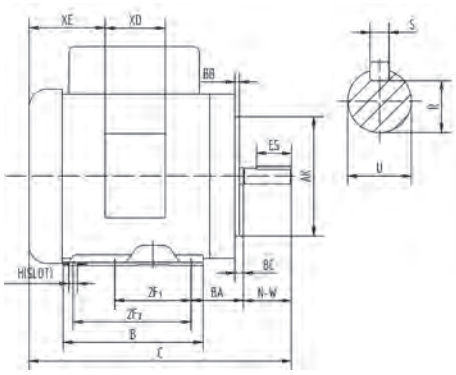
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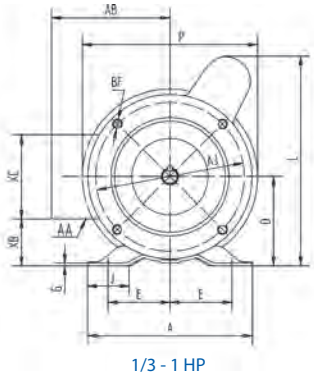
# WORLDWIDE FRACTIONAL HP MOTORS

## *Jet Pump Motors*

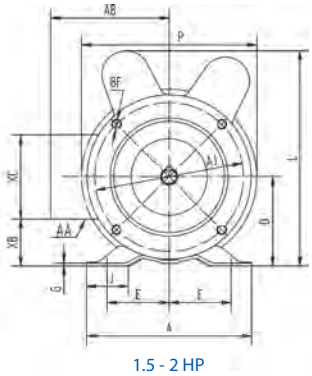
### *TEFC Enclosure ▪ C-Face ▪ Removable Base*

### *Single-Phase ▪ 115/208-230 Volt*




1/3 - 1 HP

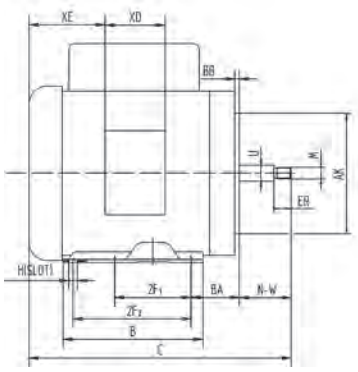


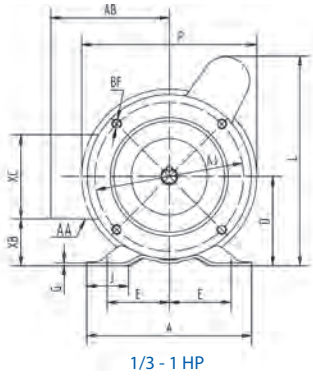

1.5 - 2 HP

## Keyed Shaft

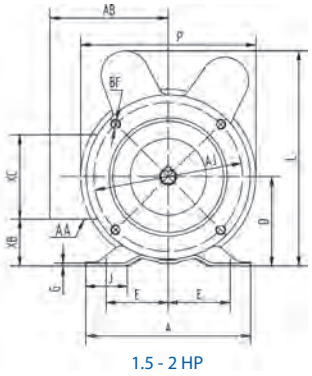
ALL DIMENSIONS IN INCHES

| Model | E | 2F1 | 2F2 | H | BA | A | B | C | D | G | J | P | L | AB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TJ13-36-56CB-NOL | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.2 | 3.5 | 0.12 | 1.73 | 6.9 | 8.07 | 5.35 |
| TJ12-36-56CB-NOL | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.2 | 3.5 | 0.12 | 1.73 | 6.9 | 8.07 | 5.35 |
| TJ34-36-56CB-NOL | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.2 | 3.5 | 0.12 | 1.73 | 6.9 | 8.07 | 5.35 |
| TJ1-36-56CB-NOL | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.2 | 3.5 | 0.12 | 1.73 | 6.9 | 8.07 | 5.35 |
| TJ1.5-36-56CB-NOL | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 13.0 | 3.5 | 0.12 | 1.73 | 6.9 | 8.50 | 5.35 |
| TJ2-36-56CB-NOL | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 13.0 | 3.5 | 0.12 | 1.73 | 6.9 | 8.50 | 5.35 |




1/3 - 1 HP




1.5 - 2 HP

## Threaded Shaft

ALL DIMENSIONS IN INCHES

| Model | E | 2F1 | 2F2 | H | BA | A | B | C | D | G | J | P | L | AB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TJ13-36-56JB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.6 | 3.5 | 0.12 | 1.73 | 6.9 | 8.07 | 5.35 |
| TJ12-36-56JB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.6 | 3.5 | 0.12 | 1.73 | 6.9 | 8.07 | 5.35 |
| TJ34-36-56JB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.6 | 3.5 | 0.12 | 1.73 | 6.9 | 8.07 | 5.35 |
| TJ1-36-56JB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.6 | 3.5 | 0.12 | 1.73 | 6.9 | 8.07 | 5.35 |
| TJ1.5-36-56JB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 13.5 | 3.5 | 0.12 | 1.73 | 6.9 | 8.50 | 5.35 |
| TJ2-36-56JB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 13.5 | 3.5 | 0.12 | 1.73 | 6.9 | 8.50 | 5.35 |

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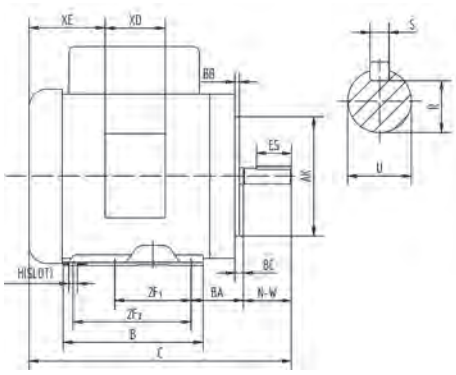
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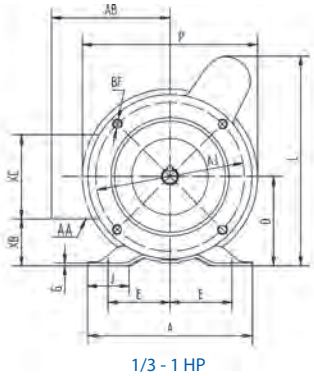
# WORLDWIDE FRACTIONAL HP MOTORS

## *Jet Pump Motors*

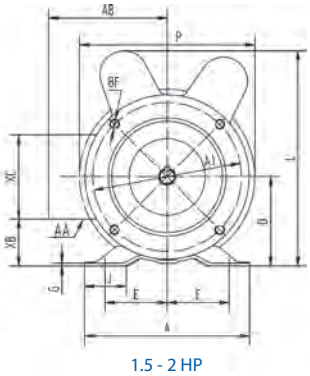
### *TEFC Enclosure ▪ C-Face ▪ Removable Base*

### *Single-Phase ▪ 115/208-230 Volt*




1/3 - 1 HP

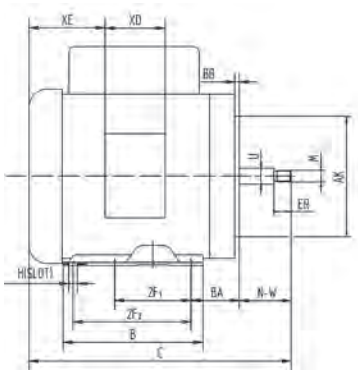


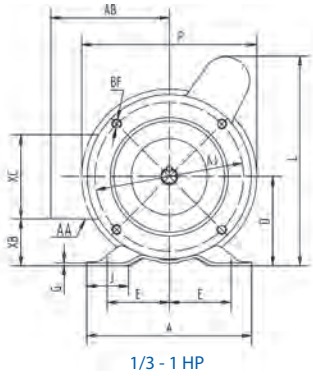

1.5 - 2 HP

## Keyed Shaft

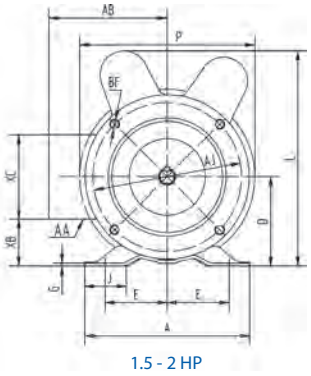
ALL DIMENSIONS IN INCHES

| Model | S | ES | R | N-W | U | AA | BC | AK | AJ | BF | BB | XB | XC | XD | XE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TJ13-36-56CB-NOL | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| TJ12-36-56CB-NOL | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| TJ34-36-56CB-NOL | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| TJ1-36-56CB-NOL | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| TJ1.5-36-56CB-NOL | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| TJ2-36-56CB-NOL | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |




1/3 - 1 HP




1.5 - 2 HP

## Threaded Shaft

ALL DIMENSIONS IN INCHES

| Model | N-W | U | ER | M | AA | AK | AJ | BF | BB | XB | XC | XD | XE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TJ13-36-56JB | 2.4 | 0.625 | 0.68 | 7/16 - 20 | 0.50 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| TJ12-36-56JB | 2.4 | 0.625 | 0.68 | 7/16 - 20 | 0.50 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| TJ34-36-56JB | 2.4 | 0.625 | 0.68 | 7/16 - 20 | 0.50 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| TJ1-36-56JB | 2.4 | 0.625 | 0.68 | 7/16 - 20 | 0.50 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| TJ1.5-36-56JB | 2.4 | 0.625 | 0.68 | 7/16 - 20 | 0.50 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| TJ2-36-56JB | 2.4 | 0.625 | 0.68 | 7/16 - 20 | 0.50 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |

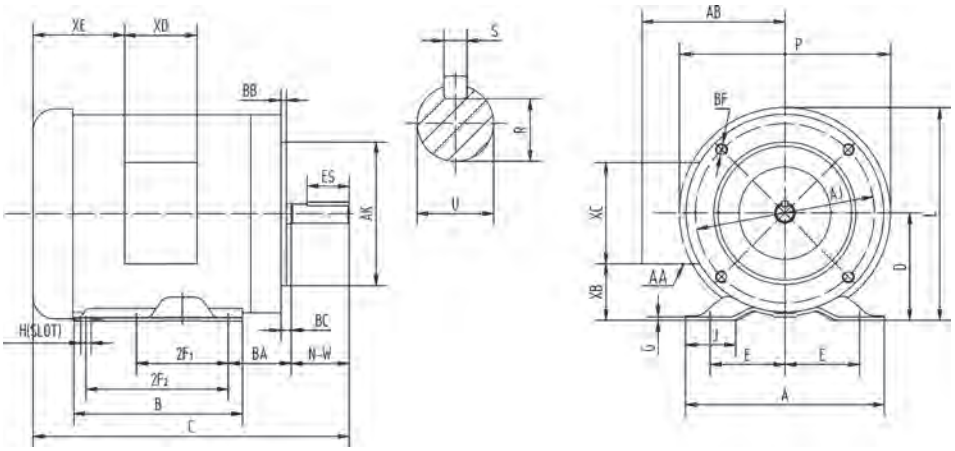
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# WORLDWIDE FRACTIONAL HP MOTORS

## *Jet Pump Motors*

### *TEFC Enclosure ▪ C-Face ▪ Removable Base*

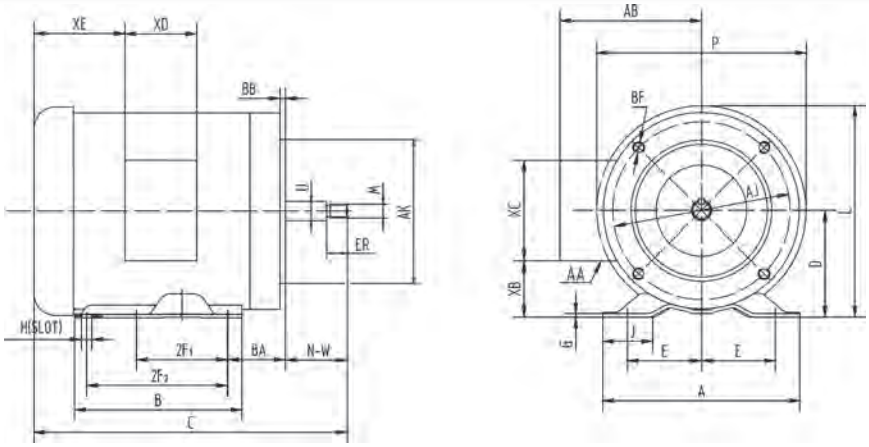
### *Three-Phase ▪ 208-230/460 Volt*




## Keyed Shaft

ALL DIMENSIONS IN INCHES

| Model | E | 2F1 | 2F2 | H | BA | A | B | C | D | G | J | P | L | AB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ATJ13-36-56CB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.2 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 |
| ATJ12-36-56CB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.2 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 |
| ATJ34-36-56CB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.2 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 |
| ATJ1-36-56CB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.2 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 |
| ATJ1.5-36-56CB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.2 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 |
| ATJ2-36-56CB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.4 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 |




## Threaded Shaft

ALL DIMENSIONS IN INCHES

| Model | E | 2F1 | 2F2 | H | BA | A | B | C | D | G | J | P | L | AB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ATJ13-36-56JB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.7 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 |
| ATJ12-36-56JB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.7 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 |
| ATJ34-36-56JB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.7 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 |
| ATJ1-36-56JB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.7 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 |
| ATJ1.5-36-56JB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.7 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 |
| ATJ2-36-56JB | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.5 | 6.5 | 12.9 | 3.5 | 0.12 | 1.73 | 6.9 | 7 | 5.35 |

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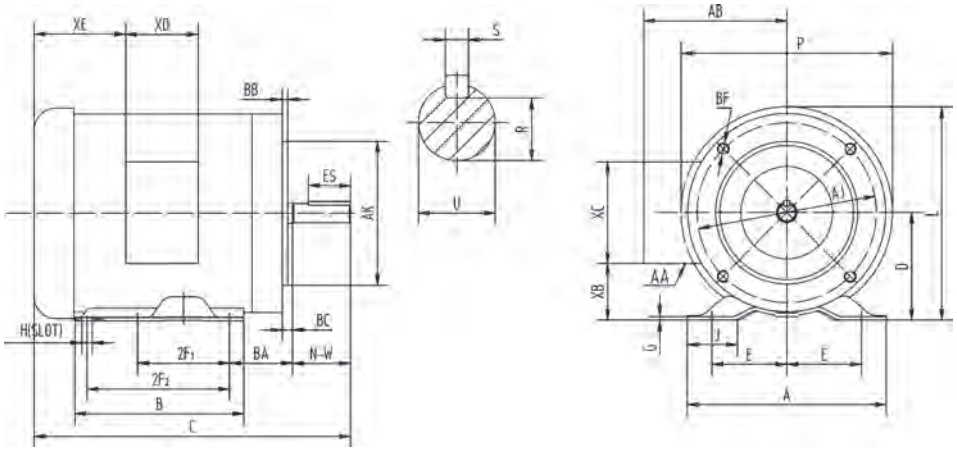
Continued On Next Page

# WORLDWIDE FRACTIONAL HP MOTORS

## *Jet Pump Motors*

### *TEFC Enclosure ▪ C-Face ▪ Removable Base*

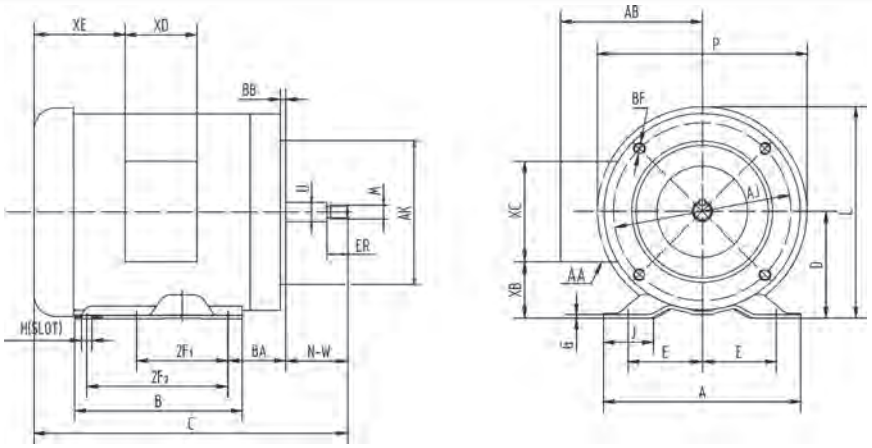
### *Three-Phase ▪ 208-230/460 Volt*




## Keyed Shaft

ALL DIMENSIONS IN INCHES

| Model | S | ES | R | N-W | U | AA | BC | AK | AJ | BF | BB | XB | XC | XD | XE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ATJ13-36-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| ATJ12-36-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| ATJ34-36-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| ATJ1-36-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| ATJ1.5-36-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| ATJ2-36-56CB | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 | 0.19 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |




## Threaded Shaft

ALL DIMENSIONS IN INCHES

| Model | N-W | U | ER | M | AA | AK | AJ | BF | BB | XB | XC | XD | XE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ATJ13-36-56JB | 2.4 | 0.625 | 0.68 | 7/16 - 20 | 0.50 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| ATJ12-36-56JB | 2.4 | 0.625 | 0.68 | 7/16 - 20 | 0.50 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| ATJ34-36-56JB | 2.4 | 0.625 | 0.68 | 7/16 - 20 | 0.50 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| ATJ1-36-56JB | 2.4 | 0.625 | 0.68 | 7/16 - 20 | 0.50 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| ATJ1.5-36-56JB | 2.4 | 0.625 | 0.68 | 7/16 - 20 | 0.50 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |
| ATJ2-36-56JB | 2.4 | 0.625 | 0.68 | 7/16 - 20 | 0.50 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 1.65 | 3.7 | 3.23 | 2.85 |

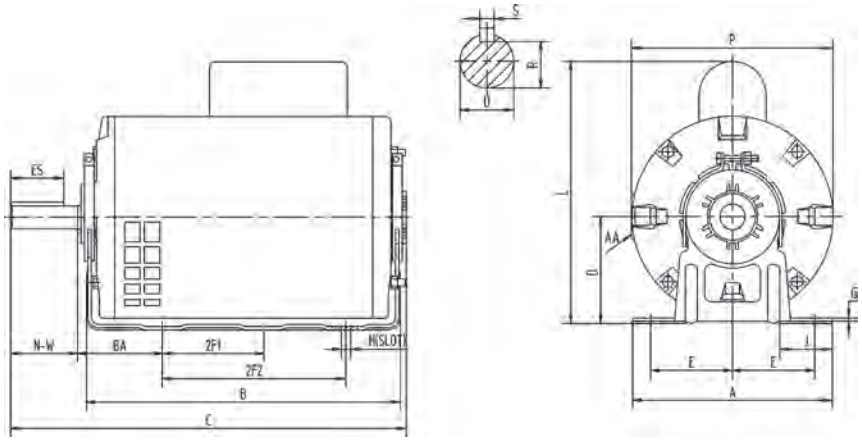
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# WORLDWIDE FRACTIONAL HP MOTORS

## *Resilient (Cradle) Base Motors*

### *ODP Enclosure ▪ Resilient (Cradle) Base*

### *Single-Phase ▪ 115/208-230 Volt*




ALL DIMENSIONS IN INCHES

| Model | E | 2F1 | 2F2 | H | BA | A | B | C | D | G | J | P | L | S | ES | R | N-W | U | AA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R13-18-56-NOL | 2.44 | 3 | — | 0.34 | 2.75 | 6.46 | 9.49 | 10.6 | 3.5 | 0.12 | 1.65 | 5.70 | 7.91 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 |
| R12-18-56-NOL | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.46 | 9.49 | 11.8 | 3.5 | 0.12 | 1.65 | 5.70 | 7.91 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 |
| R34-18-56-NOL | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.46 | 9.49 | 11.8 | 3.5 | 0.12 | 1.65 | 5.70 | 7.91 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 |
| R1-18-56-NOL | 2.44 | 3 | 5 | 0.34 | 2.75 | 6.46 | 9.49 | 11.8 | 3.5 | 0.12 | 1.65 | 6.46 | 8.74 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 |



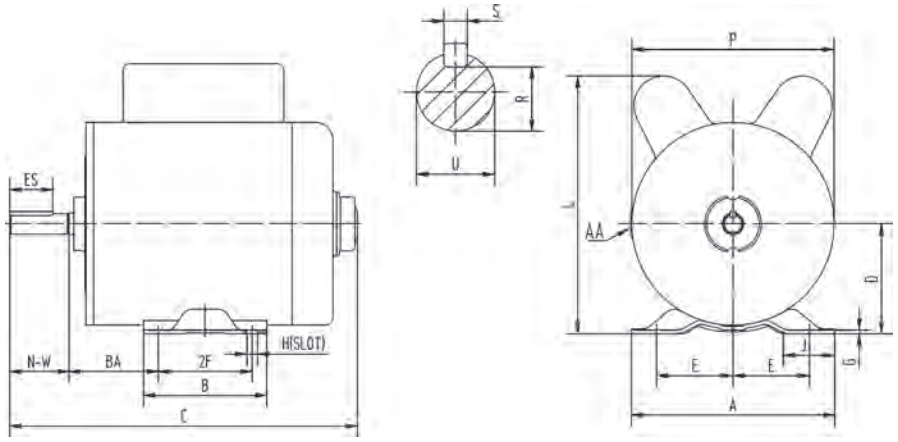
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# WORLDWIDE FRACTIONAL HP MOTORS

## *Compressor Duty Motors*

### *ODP Enclosure ▪ Rigid Base*

### *Single-Phase ▪ 115/208-230 and 208-230 Volt*




ALL DIMENSIONS IN INCHES

| Model | E | 2F | H | BA | A | B | C | D | G | J | P | L | S | ES | R | N-W | U | AA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CM2-36-56 | 2.44 | 3 | 0.34 | 2.75 | 6.5 | 4 | 11.2 | 3.5 | 0.12 | 1.73 | 6.46 | 7.95 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 |
| CM5-36-56 | 2.44 | 3 | 0.34 | 2.75 | 6.5 | 4 | 12.4 | 3.5 | 0.12 | 1.73 | 6.46 | 7.95 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.50 |



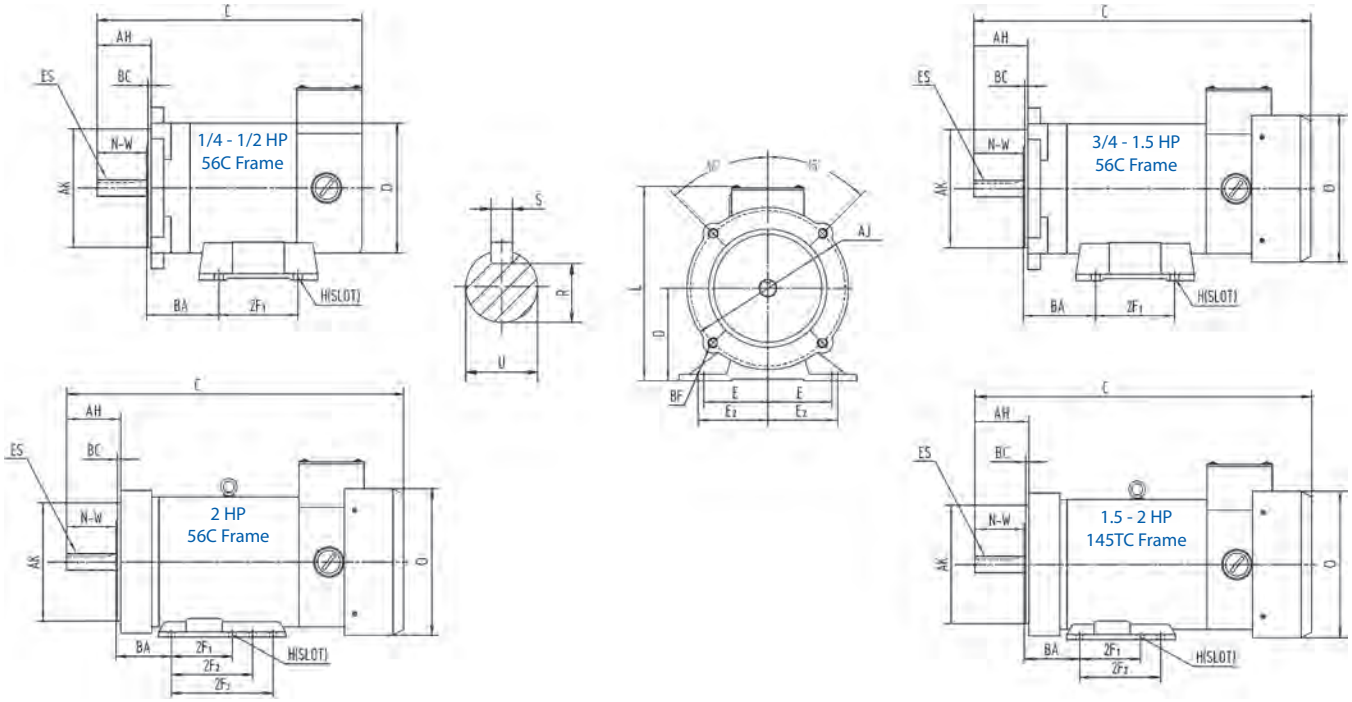
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# WORLDWIDE FRACTIONAL HP MOTORS

## *Permanent Magnet DC Motors*

### *TENV / TEFC Enclosure ▪ C-Face ▪ Removable Base*

### *90, 180, 12 and 24 Volt*




## 90 Volt and 180 Volt

ALL DIMENSIONS IN INCHES

| Model | E | E2 | 2F1 | 2F2 | 2F3 | H | BA | C | D | L | O | S | ES | R | N-W | U | BC | AH | AK | AJ | BF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WPMDC14-18-90V-56CB | 2.44 | — | 3 | — | — | 0.34 | 2.75 | 10.06 | 3.5 | 7.63 | 4.94 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.12 | 2.06 | 4.5 | 5.875 | ⅜ - 16 |
| WPMDC13-18-90V-56CB | 2.44 | — | 3 | — | — | 0.34 | 2.75 | 10.06 | 3.5 | 7.63 | 4.94 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.12 | 2.06 | 4.5 | 5.875 | ⅜ - 16 |
| WPMDC13-18-180V-56CB | 2.44 | — | 3 | — | — | 0.34 | 2.75 | 10.06 | 3.5 | 7.63 | 4.94 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.12 | 2.06 | 4.5 | 5.875 | ⅜ - 16 |
| WPMDC12-18-90V-56CB | 2.44 | — | 3 | — | — | 0.34 | 2.75 | 10.94 | 3.5 | 7.63 | 4.94 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.12 | 2.06 | 4.5 | 5.875 | ⅜ - 16 |
| WPMDC12-18-180V-56CB | 2.44 | — | 3 | — | — | 0.34 | 2.75 | 10.94 | 3.5 | 7.63 | 4.94 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.12 | 2.06 | 4.5 | 5.875 | ⅜ - 16 |
| WPMDC34-18-90V-56CB | 2.44 | — | 3 | — | — | 0.34 | 2.75 | 13.51 | 3.5 | 7.63 | 5.57 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.12 | 2.06 | 4.5 | 5.875 | ⅜ - 16 |
| WPMDC34-18-180V-56CB | 2.44 | — | 3 | — | — | 0.34 | 2.75 | 13.51 | 3.5 | 7.63 | 5.57 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.12 | 2.06 | 4.5 | 5.875 | ⅜ - 16 |
| WPMDC1-18-90V-56CB | 2.44 | — | 3 | — | — | 0.34 | 2.75 | 14.3 | 3.5 | 7.63 | 5.57 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.12 | 2.06 | 4.5 | 5.875 | ⅜ - 16 |
| WPMDC1-18-180V-56CB | 2.44 | — | 3 | — | — | 0.34 | 2.75 | 14.3 | 3.5 | 7.63 | 5.57 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.12 | 2.06 | 4.5 | 5.875 | ⅜ - 16 |
| WPMDC1.5-18-90V-56CB | 2.44 | — | 3 | — | — | 0.34 | 2.75 | 16.45 | 3.5 | 7.63 | 5.57 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.12 | 2.06 | 4.5 | 5.875 | ⅜ - 16 |
| WPMDC1.5-18-180V-56CB | 2.44 | — | 3 | — | — | 0.34 | 2.75 | 16.45 | 3.5 | 7.63 | 5.57 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.12 | 2.06 | 4.5 | 5.875 | ⅜ - 16 |
| WPMDC1.5-18-180V-145TCB | 2.75 | — | 4 | 5 | — | 0.34 | 2.75 | 15.87 | 3.5 | 7.85 | 6.87 | 0.188 | 1.41 | 0.771 | 2.25 | 0.875 | 0.12 | 2.12 | 4.5 | 5.875 | ⅜ - 16 |
| WPMDC2-18-180V-56CB | 2.44 | 2.75 | 3 | 4 | 5 | 0.34 | 2.75 | 16.81 | 3.5 | 7.63 | 6.87 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.12 | 2.06 | 4.5 | 5.875 | ⅜ - 16 |
| WPMDC2-18-180V-145TCB | 2.75 | — | 4 | 5 | — | 0.34 | 2.75 | 16.87 | 3.5 | 7.85 | 6.87 | 0.188 | 1.41 | 0.771 | 2.25 | 0.875 | 0.12 | 2.12 | 4.5 | 5.875 | ⅜ - 16 |

MOTOR DIMENSIONS

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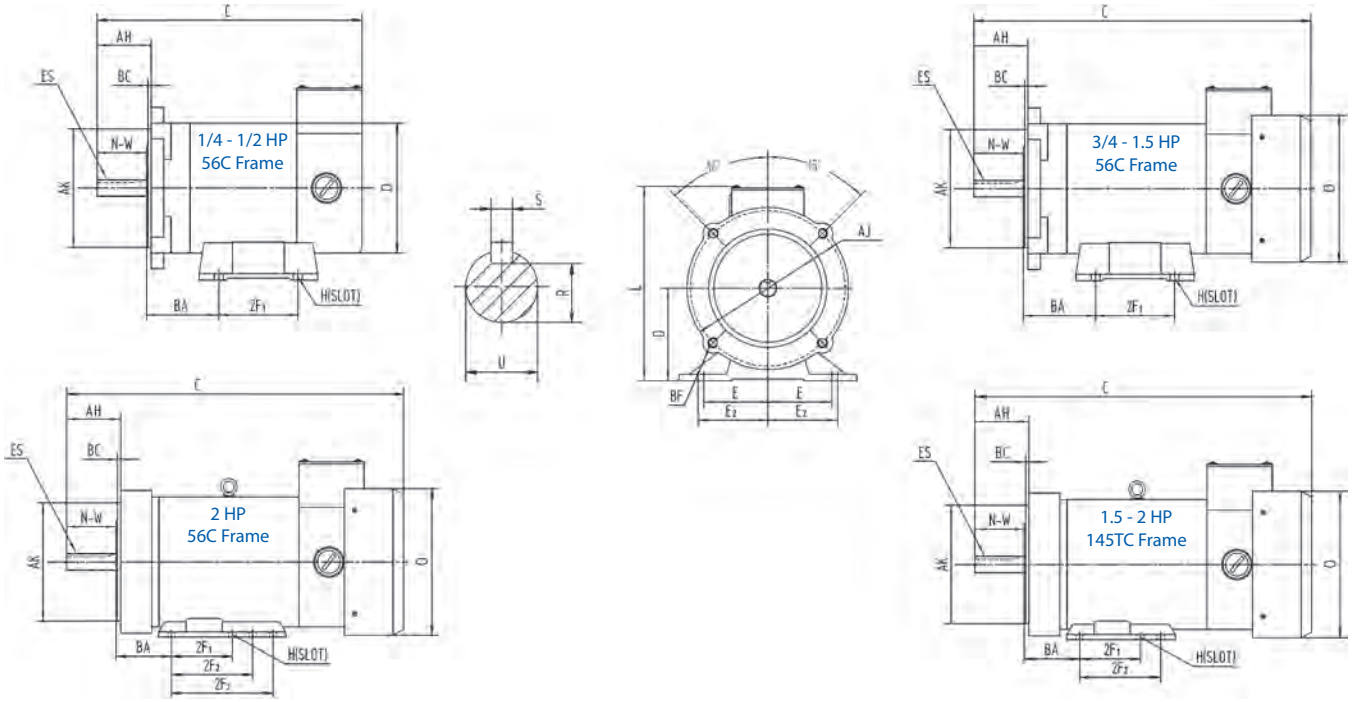
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# WORLDWIDE FRACTIONAL HP MOTORS

## *Permanent Magnet DC Motors*

### *TENV / TEFC Enclosure ▪ C-Face ▪ Removable Base*

### *90, 180, 12 and 24 Volt*




## 12 Volt and 24 Volt

ALL DIMENSIONS IN INCHES

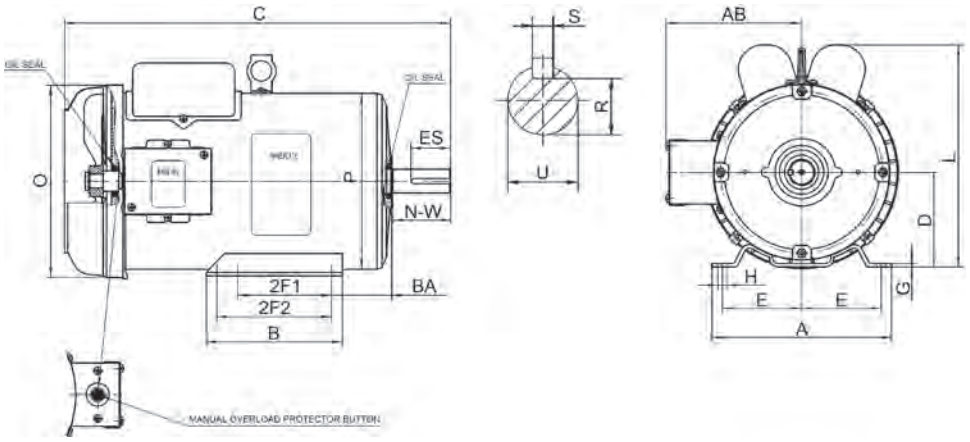
| Model | E | E2 | 2F1 | 2F2 | 2F3 | H | BA | C | D | L | O | S | ES | R | N-W | U | BC | AH | AK | AJ | BF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WPMDC13-18-12V-56CB | 2.44 | — | 3 | — | — | 0.34 | 2.75 | 10.06 | 3.5 | 7.63 | 4.94 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.12 | 2.06 | 4.5 | 5.875 | ⅜ - 16 |
| WPMDC13-18-24V-56CB | 2.44 | — | 3 | — | — | 0.34 | 2.75 | 10.06 | 3.5 | 7.63 | 4.94 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.12 | 2.06 | 4.5 | 5.875 | ⅜ - 16 |
| WPMDC12-18-12V-56CB | 2.44 | — | 3 | — | — | 0.34 | 2.75 | 10.94 | 3.5 | 7.63 | 4.94 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.12 | 2.06 | 4.5 | 5.875 | ⅜ - 16 |
| WPMDC12-18-24V-56CB | 2.44 | — | 3 | — | — | 0.34 | 2.75 | 10.94 | 3.5 | 7.63 | 4.94 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.12 | 2.06 | 4.5 | 5.875 | ⅜ - 16 |
| WPMDC34-18-12V-56CB | 2.44 | — | 3 | — | — | 0.34 | 2.75 | 13.51 | 3.5 | 7.63 | 5.57 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.12 | 2.06 | 4.5 | 5.875 | ⅜ - 16 |
| WPMDC34-18-24V-56CB | 2.44 | — | 3 | — | — | 0.34 | 2.75 | 13.51 | 3.5 | 7.63 | 5.57 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.12 | 2.06 | 4.5 | 5.875 | ⅜ - 16 |
| WPMDC1-36-24V-56CB | 2.44 | — | 3 | — | — | 0.34 | 2.75 | 14.30 | 3.5 | 7.63 | 5.57 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.12 | 2.06 | 4.5 | 5.875 | ⅜ - 16 |
| WPMDC1-18-12V-56CB | 2.44 | — | 3 | — | — | 0.34 | 2.75 | 14.30 | 3.5 | 7.63 | 5.57 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.12 | 2.06 | 4.5 | 5.875 | ⅜ - 16 |
| WPMDC1-18-24V-56CB | 2.44 | — | 3 | — | — | 0.34 | 2.75 | 14.30 | 3.5 | 7.63 | 5.57 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.12 | 2.06 | 4.5 | 5.875 | ⅜ - 16 |
| WPMDC1.5-18-24V-56CB | 2.44 | — | 3 | — | — | 0.34 | 2.75 | 16.45 | 3.5 | 7.63 | 5.57 | 0.188 | 1.41 | 0.517 | 1.88 | 0.625 | 0.12 | 2.06 | 4.5 | 5.875 | ⅜ - 16 |



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# WORLDWIDE FARM DUTY MOTORS
# HIGH EFFICIENCY

*TEFC Enclosure ▪ Rigid Base*
*Single-Phase ▪ 208-230 Volt*




ALL DIMENSIONS IN INCHES

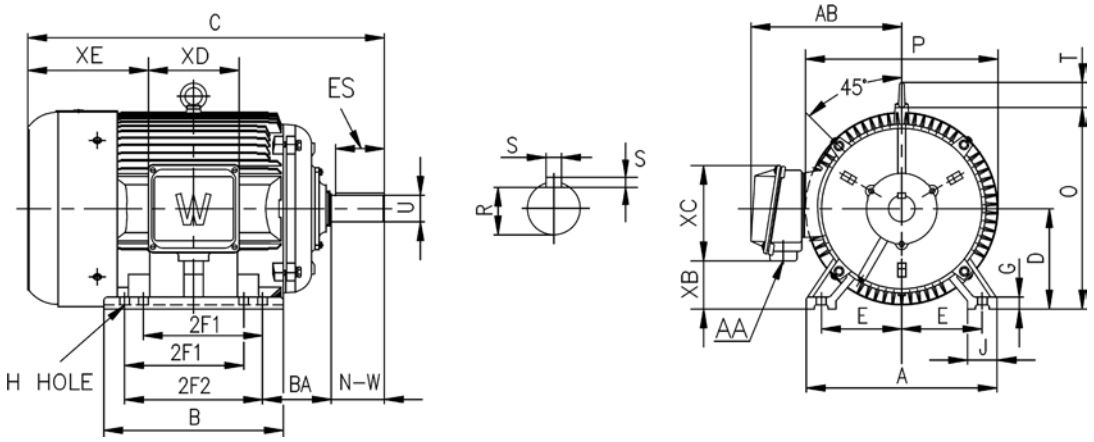
| Frame | E | 2F1 | 2F2 | H | BA | A | B | C | D | G | L | O | P | AB | S | ES | R | N-W | U | U |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 184T | 3.75 | 4.5 | 5.5 | 0.43 | 2.75 | 8.5 | 6.5 | 18.42 | 4.5 | 0.157 | 10.63 | 9.22 | 8.42 | 6.5 | 0.25 | 1.89 | 0.986 | 2.75 | 1.125 | 1.125 |

MOTOR DIMENSIONS

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# WORLDWIDE EISA-COMPLIANT MOTORS
# HIGH EFFICIENCY

## *TEFC Enclosure ▪ Rigid Base*
## *Three-Phase ▪ 208-230/460, 460 and 575 Volt*




ALL DIMENSIONS IN INCHES

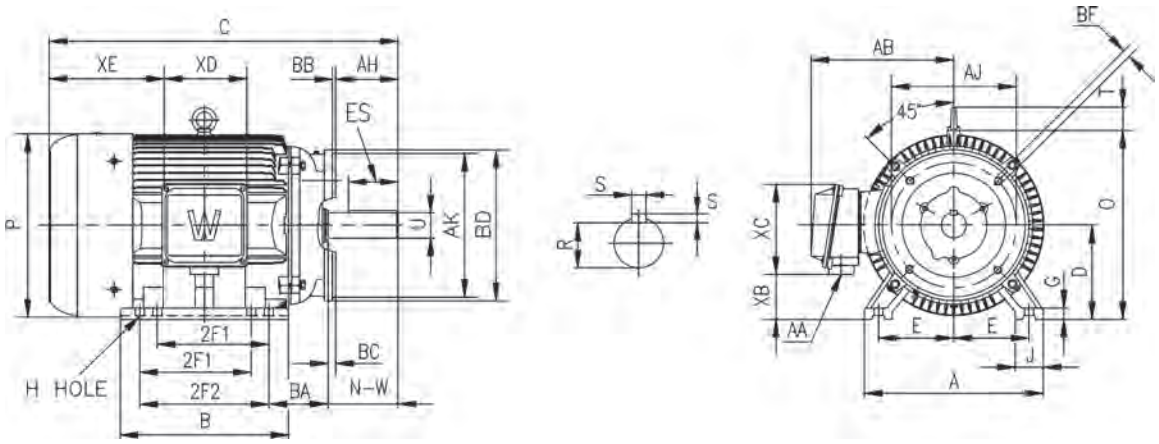
| Frame | E | 2F1 | 2F2 | H | BA | A | B | C | D | G | J | P | O | AB | T | S | ES | R | N-W | U | AA | XB | XC | XD | XE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 143T | 2.75 | — | 4.00 | 0.34 | 2.25 | 7.00 | 5.00 | 12.47 | 3.50 | 0.512 | 1.45 | 7.16 | 7.08 | 6.89 | — | 0.188 | 1.41 | 0.771 | 2.25 | 0.875 | 0.75 | 1.65 | 4.49 | 4.09 | 3.94 |
| 145T | 2.75 | 4.00 | 5.00 | 0.34 | 2.25 | 7.00 | 6.00 | 13.58 | 3.50 | 0.512 | 1.45 | 7.16 | 7.08 | 6.89 | — | 0.188 | 1.41 | 0.771 | 2.25 | 0.875 | 0.75 | 1.65 | 4.49 | 4.09 | 4.45 |
| 182T | 3.75 | — | 4.50 | 0.41 | 2.75 | 9.00 | 6.50 | 15.11 | 4.50 | 0.59 | 1.97 | 8.82 | 8.97 | 7.45 | 1.42 | 0.250 | 1.78 | 0.986 | 2.75 | 1.125 | 1.00 | 2.05 | 5.00 | 4.57 | 4.88 |
| 184T | 3.75 | 4.50 | 5.50 | 0.41 | 2.75 | 9.00 | 7.50 | 16.12 | 4.50 | 0.59 | 1.97 | 8.82 | 8.97 | 7.45 | 1.42 | 0.250 | 1.78 | 0.986 | 2.75 | 1.125 | 1.00 | 2.05 | 5.00 | 4.57 | 5.39 |
| 213T | 4.25 | — | 5.50 | 0.41 | 3.50 | 10.50 | 7.50 | 18.89 | 5.25 | 0.709 | 2.36 | 10.40 | 10.53 | 8.63 | 1.73 | 0.312 | 2.41 | 1.201 | 3.38 | 1.375 | 1.00 | 2.95 | 5.00 | 4.57 | 6.77 |
| 215T | 4.25 | 5.50 | 7.00 | 0.41 | 3.50 | 10.50 | 9.00 | 20.49 | 5.25 | 0.709 | 2.36 | 10.40 | 10.53 | 8.63 | 1.73 | 0.312 | 2.41 | 1.201 | 3.38 | 1.375 | 1.00 | 2.95 | 5.00 | 4.57 | 7.48 |
| 254T | 5.00 | — | 8.25 | 0.53 | 4.25 | 12.50 | 10.80 | 23.29 | 6.25 | 0.787 | 2.76 | 12.60 | 12.89 | 11.20 | 2.05 | 0.375 | 2.91 | 1.416 | 4.00 | 1.625 | 1.50 | 3 | 7.20 | 6.30 | 7.76 |
| 256T | 5.00 | 8.25 | 10.00 | 0.53 | 4.25 | 12.50 | 12.50 | 25.06 | 6.25 | 0.787 | 2.76 | 12.60 | 12.89 | 11.20 | 2.05 | 0.375 | 2.91 | 1.416 | 4.00 | 1.625 | 1.50 | 3 | 7.20 | 6.30 | 8.66 |
| 284T | 5.50 | — | 9.50 | 0.53 | 4.75 | 14.00 | 12.50 | 26.64 | 7.00 | 0.866 | 2.76 | 14.17 | 14.28 | 12.00 | 2.05 | 0.500 | 3.28 | 1.591 | 4.62 | 1.875 | 1.50 | 3.58 | 7.20 | 6.30 | 9.13 |
| 284TS | 5.50 | — | 9.50 | 0.53 | 4.75 | 14.00 | 12.50 | 25.25 | 7.00 | 0.866 | 2.76 | 14.17 | 14.28 | 12.00 | 2.05 | 0.375 | 1.91 | 1.416 | 3.25 | 1.625 | 1.50 | 3.58 | 7.20 | 6.30 | 9.13 |
| 286T | 5.50 | 9.50 | 11.00 | 0.53 | 4.75 | 14.00 | 14.00 | 28.18 | 7.00 | 0.866 | 2.76 | 14.17 | 14.28 | 12.00 | 2.05 | 0.500 | 3.28 | 1.591 | 4.62 | 1.875 | 1.50 | 3.58 | 7.20 | 6.30 | 9.61 |
| 286TS | 5.50 | 9.50 | 11.00 | 0.53 | 4.75 | 14.00 | 14.00 | 26.80 | 7.00 | 0.866 | 2.76 | 14.17 | 14.28 | 12.00 | 2.05 | 0.375 | 1.91 | 1.416 | 3.25 | 1.625 | 1.50 | 3.58 | 7.20 | 6.30 | 9.61 |
| 324T | 6.25 | — | 10.50 | 0.66 | 5.25 | 16.00 | 14.00 | 29.95 | 8.00 | 0.984 | 2.76 | 15.75 | 15.91 | 13.40 | 2.44 | 0.500 | 3.91 | 1.845 | 5.25 | 2.125 | 2.00 | 2.64 | 10.55 | 8.98 | 9.68 |
| 324TS | 6.25 | — | 10.50 | 0.66 | 5.25 | 16.00 | 14.00 | 28.45 | 8.00 | 0.984 | 2.76 | 15.75 | 15.91 | 13.40 | 2.44 | 0.500 | 2.03 | 1.591 | 3.75 | 1.875 | 2.00 | 2.64 | 10.55 | 8.98 | 9.68 |
| 326T | 6.25 | 10.50 | 12.00 | 0.66 | 5.25 | 16.00 | 15.50 | 31.24 | 8.00 | 0.984 | 2.76 | 15.75 | 15.91 | 13.40 | 2.44 | 0.500 | 3.91 | 1.845 | 5.25 | 2.125 | 2.00 | 2.64 | 10.55 | 8.98 | 10.47 |
| 326TS | 6.25 | 10.50 | 12.00 | 0.66 | 5.25 | 16.00 | 15.50 | 29.74 | 8.00 | 0.984 | 2.76 | 15.75 | 15.91 | 13.40 | 2.44 | 0.500 | 2.03 | 1.591 | 3.75 | 1.875 | 2.00 | 2.64 | 10.55 | 8.98 | 10.47 |
| 364T | 7.00 | — | 11.25 | 0.66 | 5.88 | 18.00 | 15.20 | 32.68 | 9.00 | 1.102 | 2.95 | 17.70 | 18.13 | 15.70 | 2.44 | 0.625 | 4.28 | 2.021 | 5.88 | 2.375 | 3.00 | 3.74 | 10.55 | 8.98 | 10.83 |
| 364TS | 7.00 | — | 11.25 | 0.66 | 5.88 | 18.00 | 15.20 | 30.45 | 9.00 | 1.102 | 2.95 | 17.70 | 18.13 | 15.70 | 2.44 | 0.500 | 2.03 | 1.591 | 3.75 | 1.875 | 3.00 | 3.74 | 10.55 | 8.98 | 10.83 |
| 365T | 7.00 | 11.25 | 12.25 | 0.66 | 5.88 | 18.00 | 16.20 | 34.11 | 9.00 | 1.102 | 2.95 | 17.70 | 18.13 | 15.70 | 2.44 | 0.625 | 4.28 | 2.021 | 5.88 | 2.375 | 3.00 | 3.74 | 10.55 | 8.98 | 11.30 |
| 365TS | 7.00 | 11.25 | 12.25 | 0.66 | 5.88 | 18.00 | 16.20 | 31.45 | 9.00 | 1.102 | 2.95 | 17.70 | 18.13 | 15.70 | 2.44 | 0.500 | 2.03 | 1.591 | 3.75 | 1.875 | 3.00 | 3.74 | 10.55 | 8.98 | 11.30 |
| 404T | 8.00 | — | 12.25 | 0.81 | 6.62 | 20.00 | 16.20 | 36.81 | 10.00 | 1.180 | 3.15 | 21.42 | 21.02 | 18.31 | 2.83 | 0.750 | 5.65 | 2.450 | 7.25 | 2.875 | 3.00 | 4.57 | 11.73 | 9.76 | 11.69 |
| 404TS | 8.00 | — | 12.25 | 0.81 | 6.62 | 20.00 | 16.20 | 33.819 | 10.00 | 1.180 | 3.15 | 21.42 | 21.02 | 18.31 | 2.83 | 0.500 | 2.78 | 1.845 | 4.25 | 2.125 | 3.00 | 4.57 | 11.73 | 9.76 | 11.69 |
| 405T | 8.00 | 12.25 | 13.75 | 0.81 | 6.62 | 20.00 | 17.80 | 38.35 | 10.00 | 1.180 | 3.15 | 21.42 | 21.02 | 18.31 | 2.83 | 0.750 | 5.65 | 2.450 | 7.25 | 2.875 | 3.00 | 4.57 | 11.73 | 9.76 | 12.48 |
| 405TS | 8.00 | 12.25 | 13.75 | 0.81 | 6.62 | 20.00 | 17.80 | 35.35 | 10.00 | 1.180 | 3.15 | 21.42 | 21.02 | 18.31 | 2.83 | 0.500 | 2.78 | 1.845 | 4.25 | 2.125 | 3.00 | 4.57 | 11.73 | 9.76 | 12.48 |
| 444T | 9.00 | — | 14.50 | 0.81 | 7.50 | 22.00 | 18.50 | 42.52 | 11.00 | 1.380 | 3.35 | 23.43 | 22.97 | 19.41 | 3.46 | 0.875 | 6.91 | 2.880 | 8.50 | 3.375 | 2 x 3 | 5.67 | 11.73 | 11.34 | 13.39 |
| 444TS | 9.00 | — | 14.50 | 0.81 | 7.50 | 22.00 | 18.50 | 38.94 | 11.00 | 1.380 | 3.35 | 23.43 | 22.97 | 19.41 | 3.46 | 0.625 | 3.03 | 2.021 | 4.75 | 2.375 | 2 x 3 | 5.67 | 11.73 | 11.34 | 13.39 |
| 445T | 9.00 | 14.50 | 16.50 | 0.81 | 7.50 | 22.00 | 20.50 | 44.50 | 11.00 | 1.380 | 3.35 | 23.43 | 22.97 | 19.41 | 3.46 | 0.875 | 6.91 | 2.880 | 8.50 | 3.375 | 2 x 3 | 5.67 | 11.73 | 11.34 | 14.37 |
| 445TS | 9.00 | 14.50 | 16.50 | 0.81 | 7.50 | 22.00 | 20.50 | 40.71 | 11.00 | 1.380 | 3.35 | 23.43 | 22.97 | 19.41 | 3.46 | 0.625 | 3.03 | 2.021 | 4.75 | 2.375 | 2 x 3 | 5.67 | 11.73 | 11.34 | 14.37 |
| 445/7T | 9.00 | 16.50 | 20.00 | 0.81 | 7.50 | 22.00 | 24.00 | 48.03 | 11.00 | 1.380 | 3.35 | 23.43 | 22.97 | 19.41 | 3.46 | 0.875 | 6.91 | 2.880 | 8.50 | 3.375 | 2 x 3 | 5.67 | 11.73 | 11.34 | 18.90 |
| 445/7TS | 9.00 | 16.50 | 20.00 | 0.81 | 7.50 | 22.00 | 24.00 | 44.25 | 11.00 | 1.380 | 3.35 | 23.43 | 22.97 | 19.41 | 3.46 | 0.625 | 3.03 | 2.021 | 4.75 | 2.375 | 2 x 3 | 5.67 | 11.73 | 11.34 | 18.90 |
| 449T | 9.00 | — | 25.00 | 0.81 | 7.50 | 22.00 | 31.00 | 55.51 | 11.00 | 1.575 | 3.35 | 24.00 | 23.00 | 19.07 | 4.25 | 0.875 | 7.01 | 2.880 | 8.50 | 3.375 | 3.00 | 4.74 | 11.80 | — | 20.00 |
| 449TS | 9.00 | — | 25.00 | 0.81 | 7.50 | 22.00 | 31.00 | 51.80 | 11.00 | 1.575 | 3.35 | 24.00 | 23.00 | 19.07 | 4.25 | 0.625 | 3.15 | 2.021 | 4.75 | 2.375 | 3.00 | 4.74 | 11.80 | — | 20.00 |
| 505Z | 10.00 | 16.00 | 18.00 | 0.938 | 8.50 | 24.72 | 26.00 | 53.00 | 12.50 | 1.870 | 4.72 | 25.00 | 25.30 | 20.90 | 4.25 | 0.875 | 9.00 | 3.134 | 10.625 | 3.625 | 2 x 3 | — | — | — | — |
| 505UZ | 10.00 | 16.00 | 18.00 | 0.938 | 8.50 | 24.72 | 26.00 | 54.00 | 12.50 | 1.870 | 4.72 | 25.00 | 25.30 | 20.90 | 4.25 | 1.000 | 10.00 | 3.309 | 11.625 | 3.875 | 2 x 3 | — | — | — | — |
| 586/7 | 11.50 | 22.00 | 25.00 | 1.125 | 10.00 | 28.00 | 33.85 | 65.60 | 14.50 | 2.050 | 5.00 | 28.15 | 28.87 | 23.90 | 4.99 | 1.000 | 10.00 | 3.309 | 11.625 | 3.875 | 2 x 3 | 5.30 | 16.10 | 13.90 | 23.00 |
| 586/7UZ | 11.50 | 22.00 | 25.00 | 1.125 | 10.00 | 28.00 | 33.85 | 65.60 | 14.50 | 2.050 | 5.00 | 28.15 | 28.87 | 23.90 | 4.99 | 1.000 | 10.00 | 3.817 | 11.625 | 4.375 | 2 x 3 | 5.30 | 16.10 | 13.90 | 23.00 |

Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

# WORLDWIDE EISA-COMPLIANT MOTORS
# HIGH EFFICIENCY

*TEFC Enclosure ▪ C-Face ▪ Rigid Base*

*Three-Phase ▪ 208-230/460 and 460 Volt*




ALL DIMENSIONS IN INCHES

| Frame | E | 2F1 | 2F2 | H | BA | A | B | C | D | G | J | P | O | AB | T | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 143TC | 2.75 | — | 4.00 | 0.34 | 2.25 | 7.0 | 5.0 | 12.47 | 3.50 | 0.512 | 1.45 | 7.16 | 7.08 | 6.89 | — | 0.188 |
| 145TC | 2.75 | 4.00 | 5.00 | 0.34 | 2.25 | 7.0 | 6.0 | 13.58 | 3.50 | 0.512 | 1.45 | 7.16 | 7.08 | 6.89 | — | 0.188 |
| 182TC | 3.75 | — | 4.50 | 0.41 | 2.75 | 9.0 | 6.5 | 15.11 | 4.50 | 0.590 | 1.97 | 8.82 | 8.97 | 7.45 | 1.42 | 0.250 |
| 184TC | 3.75 | 4.50 | 5.50 | 0.41 | 2.75 | 9.0 | 7.5 | 16.12 | 4.50 | 0.590 | 1.97 | 8.82 | 8.97 | 7.45 | 1.42 | 0.250 |
| 213TC | 4.25 | — | 5.50 | 0.41 | 3.50 | 10.5 | 7.5 | 18.89 | 5.25 | 0.709 | 2.36 | 10.40 | 10.53 | 8.63 | 1.73 | 0.312 |
| 215TC | 4.25 | 5.50 | 7.00 | 0.41 | 3.50 | 10.5 | 9.0 | 20.49 | 5.25 | 0.709 | 2.36 | 10.40 | 10.53 | 8.63 | 1.73 | 0.312 |
| 254TC | 5.00 | — | 8.25 | 0.53 | 4.25 | 12.5 | 10.8 | 23.29 | 6.25 | 0.787 | 2.76 | 12.60 | 12.89 | 11.20 | 2.05 | 0.375 |
| 256TC | 5.00 | 8.25 | 10.00 | 0.53 | 4.25 | 12.5 | 12.5 | 25.06 | 6.25 | 0.787 | 2.76 | 12.60 | 12.89 | 11.20 | 2.05 | 0.375 |
| 284TC | 5.50 | — | 9.50 | 0.53 | 4.75 | 14.0 | 12.5 | 26.64 | 7.00 | 0.866 | 2.76 | 14.17 | 14.28 | 12.00 | 2.05 | 0.500 |
| 284TSC | 5.50 | — | 9.50 | 0.53 | 4.75 | 14.0 | 12.5 | 25.25 | 7.00 | 0.866 | 2.76 | 14.17 | 14.28 | 12.00 | 2.05 | 0.375 |
| 286TC | 5.50 | 9.50 | 11.00 | 0.53 | 4.75 | 14.0 | 14.0 | 28.18 | 7.00 | 0.866 | 2.76 | 14.17 | 14.28 | 12.00 | 2.05 | 0.500 |
| 286TSC | 5.50 | 9.50 | 11.00 | 0.53 | 4.75 | 14.0 | 14.0 | 26.80 | 7.00 | 0.866 | 2.76 | 14.17 | 14.28 | 12.00 | 2.05 | 0.375 |
| 324TC | 6.25 | — | 10.50 | 0.66 | 5.25 | 16.0 | 14.0 | 29.95 | 8.00 | 0.984 | 2.76 | 15.75 | 15.91 | 13.40 | 2.44 | 0.500 |
| 324TSC | 6.25 | — | 10.50 | 0.66 | 5.25 | 16.0 | 14.0 | 28.45 | 8.00 | 0.984 | 2.76 | 15.75 | 15.91 | 13.40 | 2.44 | 0.500 |
| 326TC | 6.25 | 10.50 | 12.00 | 0.66 | 5.25 | 16.0 | 15.5 | 31.24 | 8.00 | 0.984 | 2.76 | 15.75 | 15.91 | 13.40 | 2.44 | 0.500 |
| 326TSC | 6.25 | 10.50 | 12.00 | 0.66 | 5.25 | 16.0 | 15.5 | 29.74 | 8.00 | 0.984 | 2.76 | 15.75 | 15.91 | 13.40 | 2.44 | 0.500 |
| 364TC | 7.00 | — | 11.25 | 0.66 | 5.88 | 18.0 | 15.2 | 32.68 | 9.00 | 1.102 | 2.95 | 17.70 | 18.13 | 15.70 | 2.44 | 0.625 |
| 364TSC | 7.00 | — | 11.25 | 0.66 | 5.88 | 18.0 | 15.2 | 30.45 | 9.00 | 1.102 | 2.95 | 17.70 | 18.13 | 15.70 | 2.44 | 0.500 |
| 365TC | 7.00 | 11.25 | 12.25 | 0.66 | 5.88 | 18.0 | 16.2 | 34.11 | 9.00 | 1.102 | 2.95 | 17.70 | 18.13 | 15.70 | 2.44 | 0.625 |
| 365TSC | 7.00 | 11.25 | 12.25 | 0.66 | 5.88 | 18.0 | 16.2 | 31.45 | 9.00 | 1.102 | 2.95 | 17.70 | 18.13 | 15.70 | 2.44 | 0.500 |
| 404TC | 8.00 | — | 12.25 | 0.81 | 6.62 | 20.0 | 16.2 | 36.81 | 10.00 | 1.180 | 3.15 | 21.42 | 21.02 | 18.31 | 2.83 | 0.750 |
| 405TC | 8.00 | 12.25 | 13.75 | 0.81 | 6.62 | 20.0 | 17.8 | 38.35 | 10.00 | 1.180 | 3.15 | 21.42 | 21.02 | 18.31 | 2.83 | 0.750 |
| 405TSC | 8.00 | 12.25 | 13.75 | 0.81 | 6.62 | 20.0 | 17.8 | 35.35 | 10.00 | 1.180 | 3.15 | 21.42 | 21.02 | 18.31 | 2.83 | 0.500 |
| 444TC | 9.00 | — | 14.50 | 0.81 | 7.50 | 22.0 | 18.5 | 42.52 | 11.00 | 1.380 | 3.35 | 23.43 | 22.97 | 19.41 | 3.46 | 0.875 |
| 444TSC | 9.00 | — | 14.50 | 0.81 | 7.50 | 22.0 | 18.5 | 38.94 | 11.00 | 1.380 | 3.35 | 23.43 | 22.97 | 19.41 | 3.46 | 0.625 |
| 445TC | 9.00 | 14.50 | 16.50 | 0.81 | 7.50 | 22.0 | 20.5 | 44.50 | 11.00 | 1.380 | 3.35 | 23.43 | 22.97 | 19.41 | 3.46 | 0.875 |
| 445TSC | 9.00 | 14.50 | 16.50 | 0.81 | 7.50 | 22.0 | 20.5 | 40.71 | 11.00 | 1.380 | 3.35 | 23.43 | 22.97 | 19.41 | 3.46 | 0.625 |
| 445/7TC | 9.00 | 16.50 | 20.00 | 0.81 | 7.50 | 22.0 | 24.0 | 48.03 | 11.00 | 1.380 | 3.35 | 23.43 | 22.97 | 19.41 | 3.46 | 0.875 |
| 445/7TSC | 9.00 | 16.50 | 20.00 | 0.81 | 7.50 | 22.0 | 24.0 | 44.25 | 11.00 | 1.380 | 3.35 | 23.43 | 22.97 | 19.41 | 3.46 | 0.625 |
| 449TC | 9.00 | — | 25.00 | 0.81 | 7.50 | 22.0 | 31.0 | 55.51 | 11.00 | 1.575 | 3.35 | 24.00 | 23.00 | 19.07 | 4.25 | 0.875 |
| 449TSC | 9.00 | — | 25.00 | 0.81 | 7.50 | 22.0 | 31.0 | 51.80 | 11.00 | 1.575 | 3.35 | 24.00 | 23.00 | 19.07 | 4.25 | 0.625 |

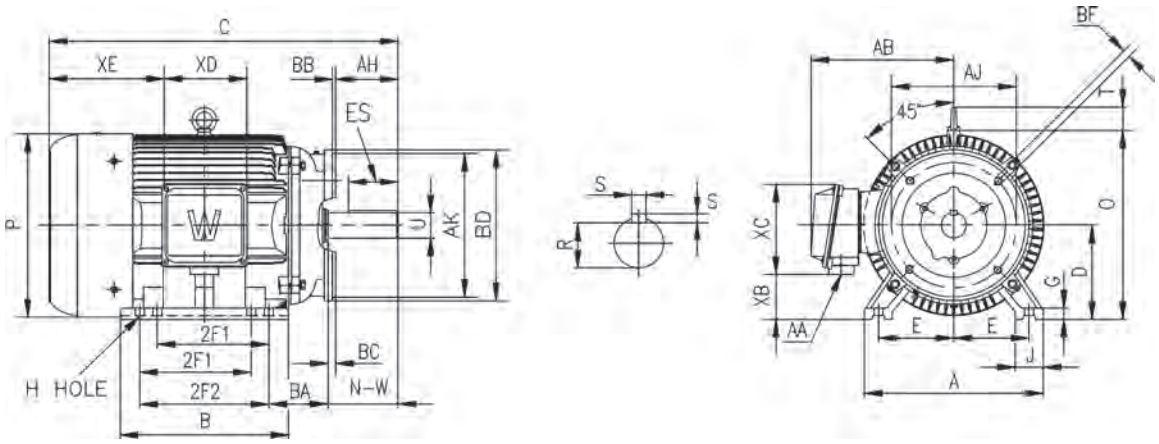
Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

Continued On Next Page

# WORLDWIDE EISA-COMPLIANT MOTORS
# HIGH EFFICIENCY

*TEFC Enclosure ▪ C-Face ▪ Rigid Base*

*Three-Phase ▪ 208-230/460 and 460 Volt*




ALL DIMENSIONS IN INCHES

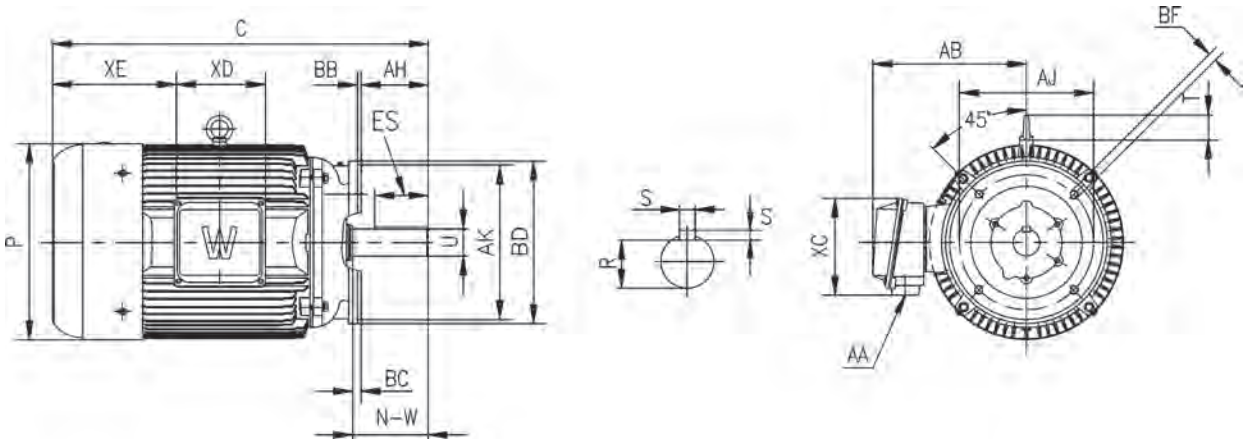
| Frame | ES | R | N-W | U | AA | XB | XC | XD | XE | BC | AH | AK | AJ | BF | BB | BD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 143TC | 1.41 | 0.771 | 2.25 | 0.875 | 0.75 | 1.65 | 4.49 | 4.09 | 3.94 | 0.12 | 2.12 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 6.50 |
| 145TC | 1.41 | 0.771 | 2.25 | 0.875 | 0.75 | 1.65 | 4.49 | 4.09 | 4.45 | 0.12 | 2.12 | 4.5 | 5.875 | ⅜ - 16 | 0.16 | 6.50 |
| 182TC | 1.78 | 0.986 | 2.75 | 1.125 | 1.00 | 2.05 | 5.00 | 4.57 | 4.88 | 0.12 | 2.62 | 8.5 | 7.250 | ½ - 13 | 0.25 | 9.00 |
| 184TC | 1.78 | 0.986 | 2.75 | 1.125 | 1.00 | 2.05 | 5.00 | 4.57 | 5.39 | 0.12 | 2.62 | 8.5 | 7.250 | ½ - 13 | 0.25 | 9.00 |
| 213TC | 2.41 | 1.201 | 3.38 | 1.375 | 1.00 | 2.95 | 5.00 | 4.57 | 6.77 | 0.25 | 3.12 | 8.5 | 7.250 | ½ - 13 | 0.25 | 9.00 |
| 215TC | 2.41 | 1.201 | 3.38 | 1.375 | 1.00 | 2.95 | 5.00 | 4.57 | 7.48 | 0.25 | 3.12 | 8.5 | 7.250 | ½ - 13 | 0.25 | 9.00 |
| 254TC | 2.91 | 1.416 | 4.00 | 1.625 | 1.50 | 3.00 | 7.20 | 6.30 | 7.76 | 0.25 | 3.75 | 8.5 | 7.250 | ½ - 13 | 0.25 | 10.00 |
| 256TC | 2.91 | 1.416 | 4.00 | 1.625 | 1.50 | 3.00 | 7.20 | 6.30 | 8.66 | 0.25 | 3.75 | 8.5 | 7.250 | ½ - 13 | 0.25 | 10.00 |
| 284TC | 3.28 | 1.591 | 4.62 | 1.875 | 1.50 | 3.58 | 7.20 | 6.30 | 9.13 | 0.25 | 4.38 | 10.5 | 9.000 | ½ - 13 | 0.25 | 11.25 |
| 284TSC | 1.91 | 1.416 | 3.25 | 1.625 | 1.50 | 3.58 | 7.20 | 6.30 | 9.13 | 0.25 | 3.00 | 10.5 | 9.000 | ½ - 13 | 0.25 | 11.25 |
| 286TC | 3.28 | 1.591 | 4.62 | 1.875 | 1.50 | 3.58 | 7.20 | 6.30 | 9.61 | 0.25 | 4.38 | 10.5 | 9.000 | ½ - 13 | 0.25 | 11.25 |
| 286TSC | 1.91 | 1.416 | 3.25 | 1.625 | 1.50 | 3.58 | 7.20 | 6.30 | 9.61 | 0.25 | 3.00 | 10.5 | 9.000 | ½ - 13 | 0.25 | 11.25 |
| 324TC | 3.91 | 1.845 | 5.25 | 2.125 | 2.00 | 2.64 | 10.55 | 8.98 | 9.68 | 0.25 | 5.00 | 12.5 | 11.000 | ⅝ - 11 | 0.25 | 14.00 |
| 324TSC | 2.03 | 1.591 | 3.75 | 1.875 | 2.00 | 2.64 | 10.55 | 8.98 | 9.68 | 0.25 | 3.50 | 12.5 | 11.000 | ⅝ - 11 | 0.25 | 14.00 |
| 326TC | 3.91 | 1.845 | 5.25 | 2.125 | 2.00 | 2.64 | 10.55 | 8.98 | 10.47 | 0.25 | 5.00 | 12.5 | 11.000 | ⅝ - 11 | 0.25 | 14.00 |
| 326TSC | 2.03 | 1.591 | 3.75 | 1.875 | 2.00 | 2.64 | 10.55 | 8.98 | 10.47 | 0.25 | 3.50 | 12.5 | 11.000 | ⅝ - 11 | 0.25 | 14.00 |
| 364TC | 4.28 | 2.021 | 5.88 | 2.375 | 3.00 | 3.74 | 10.55 | 8.98 | 10.83 | 0.25 | 5.62 | 12.5 | 11.000 | ⅝ - 11 | 0.25 | 14.00 |
| 364TSC | 2.03 | 1.591 | 3.75 | 1.875 | 3.00 | 3.74 | 10.55 | 8.98 | 10.83 | 0.25 | 3.50 | 12.5 | 11.000 | ⅝ - 11 | 0.25 | 14.00 |
| 365TC | 4.28 | 2.021 | 5.88 | 2.375 | 3.00 | 3.74 | 10.55 | 8.98 | 11.30 | 0.25 | 5.62 | 12.5 | 11.000 | ⅝ - 11 | 0.25 | 14.00 |
| 365TSC | 2.03 | 1.591 | 3.75 | 1.875 | 3.00 | 3.74 | 10.55 | 8.98 | 11.30 | 0.25 | 3.50 | 12.5 | 11.000 | ⅝ - 11 | 0.25 | 14.00 |
| 404TC | 5.65 | 2.450 | 7.25 | 2.875 | 3.00 | 4.57 | 11.73 | 9.76 | 11.69 | 0.25 | 7.00 | 12.5 | 11.000 | ⅝ - 11 | 0.25 | 15.50 |
| 405TC | 5.65 | 2.450 | 7.25 | 2.875 | 3.00 | 4.57 | 11.73 | 9.76 | 12.48 | 0.25 | 7.00 | 12.5 | 11.000 | ⅝ - 11 | 0.25 | 15.50 |
| 405TSC | 2.78 | 1.845 | 4.25 | 2.125 | 3.00 | 4.57 | 11.73 | 9.76 | 12.48 | 0.25 | 4.00 | 12.5 | 11.000 | ⅝ - 11 | 0.25 | 15.50 |
| 444TC | 6.91 | 2.880 | 8.50 | 3.375 | 2 x 3 | 5.67 | 11.73 | 11.34 | 13.39 | 0.25 | 8.25 | 16 | 14.000 | ⅝ - 11 | 0.25 | 18.00 |
| 444TSC | 3.03 | 2.021 | 4.75 | 2.375 | 2 x 3 | 5.67 | 11.73 | 11.34 | 13.39 | 0.25 | 4.50 | 16 | 14.000 | ⅝ - 11 | 0.25 | 18.00 |
| 445TC | 6.91 | 2.880 | 8.50 | 3.375 | 2 x 3 | 5.67 | 11.73 | 11.34 | 14.37 | 0.25 | 8.25 | 16 | 14.000 | ⅝ - 11 | 0.25 | 18.00 |
| 445TSC | 3.03 | 2.021 | 4.75 | 2.375 | 2 x 3 | 5.67 | 11.73 | 11.34 | 14.37 | 0.25 | 4.50 | 16 | 14.000 | ⅝ - 11 | 0.25 | 18.00 |
| 445/7TC | 6.91 | 2.880 | 8.50 | 3.375 | 2 x 3 | 5.67 | 11.73 | 11.34 | 18.90 | 0.25 | 8.25 | 16 | 14.000 | ⅝ - 11 | 0.25 | 18.00 |
| 445/7TSC | 3.03 | 2.021 | 4.75 | 2.375 | 2 x 3 | 5.67 | 11.73 | 11.34 | 18.90 | 0.25 | 4.50 | 16 | 14.000 | ⅝ - 11 | 0.25 | 18.00 |
| 449TC | 7.01 | 2.880 | 8.50 | 3.375 | 3.00 | 4.74 | 11.80 | — | 20.00 | 0.25 | 8.25 | 16 | 14.000 | ⅝ - 11 | 0.25 | 18.00 |
| 449TSC | 3.15 | 2.021 | 4.75 | 2.375 | 3.00 | 4.74 | 11.80 | — | 20.00 | 0.25 | 4.50 | 16 | 14.000 | ⅝ - 11 | 0.25 | 18.00 |

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For an exact drawing on a specific rating, please contact our sales office.

# WORLDWIDE EISA-COMPLIANT MOTORS
# HIGH EFFICIENCY

*TEFC Enclosure ▪ C-Face ▪ Round Body*

*Three-Phase ▪ 208-230/460 Volt*




ALL DIMENSIONS IN INCHES

| Frame | C | P | AB | T | S | ES | R | N-W | U | AA | XC | XD | XE | BC | AH | AK | AJ | BF | BB | BD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 143TC | 12.47 | 7.16 | 6.89 | — | 0.188 | 1.41 | 0.771 | 2.25 | 0.875 | 0.75 | 4.49 | 4.09 | 3.94 | 0.12 | 2.12 | 4.5 | 5.875 | ⅜- 16 | 0.16 | 6.50 |
| 145TC | 13.58 | 7.16 | 6.89 | — | 0.188 | 1.41 | 0.771 | 2.25 | 0.875 | 0.75 | 4.49 | 4.09 | 4.45 | 0.12 | 2.12 | 4.5 | 5.875 | ⅜- 16 | 0.16 | 6.50 |
| 182TC | 15.11 | 8.82 | 7.45 | 1.42 | 0.250 | 1.78 | 0.986 | 2.75 | 1.125 | 1.00 | 5.00 | 4.57 | 4.88 | 0.12 | 2.62 | 8.5 | 7.250 | ½- 13 | 0.25 | 9.00 |
| 184TC | 16.12 | 8.82 | 7.45 | 1.42 | 0.250 | 1.78 | 0.986 | 2.75 | 1.125 | 1.00 | 5.00 | 4.57 | 5.39 | 0.12 | 2.62 | 8.5 | 7.250 | ½- 13 | 0.25 | 9.00 |
| 213TC | 18.89 | 10.40 | 8.63 | 1.73 | 0.312 | 2.41 | 1.201 | 3.38 | 1.375 | 1.00 | 5.00 | 4.57 | 6.77 | 0.25 | 3.12 | 8.5 | 7.250 | ½- 13 | 0.25 | 9.00 |
| 215TC | 20.49 | 10.40 | 8.63 | 1.73 | 0.312 | 2.41 | 1.201 | 3.38 | 1.375 | 1.00 | 5.00 | 4.57 | 7.48 | 0.25 | 3.12 | 8.5 | 7.250 | ½- 13 | 0.25 | 9.00 |
| 254TC | 23.29 | 12.60 | 11.20 | 2.05 | 0.375 | 2.91 | 1.416 | 4.00 | 1.625 | 1.50 | 7.20 | 6.30 | 7.76 | 0.25 | 3.75 | 8.5 | 7.250 | ½- 13 | 0.25 | 10.00 |
| 256TC | 25.06 | 12.60 | 11.20 | 2.05 | 0.375 | 2.91 | 1.416 | 4.00 | 1.625 | 1.50 | 7.20 | 6.30 | 8.66 | 0.25 | 3.75 | 8.5 | 7.250 | ½- 13 | 0.25 | 10.00 |
| 284TC | 26.64 | 14.17 | 12.00 | 2.05 | 0.500 | 3.28 | 1.591 | 4.62 | 1.875 | 1.50 | 7.20 | 6.30 | 9.13 | 0.25 | 4.38 | 10.5 | 9.000 | ½- 13 | 0.25 | 11.25 |
| 286TC | 28.18 | 14.17 | 12.00 | 2.05 | 0.500 | 3.28 | 1.591 | 4.62 | 1.875 | 1.50 | 7.20 | 6.30 | 9.61 | 0.25 | 4.38 | 10.5 | 9.000 | ½- 13 | 0.25 | 11.25 |
| 324TC | 29.95 | 15.75 | 13.40 | 2.44 | 0.500 | 3.91 | 1.845 | 5.25 | 2.125 | 2.00 | 10.55 | 8.98 | 9.68 | 0.25 | 5.00 | 12.5 | 11.000 | ⅝- 11 | 0.25 | 14.00 |

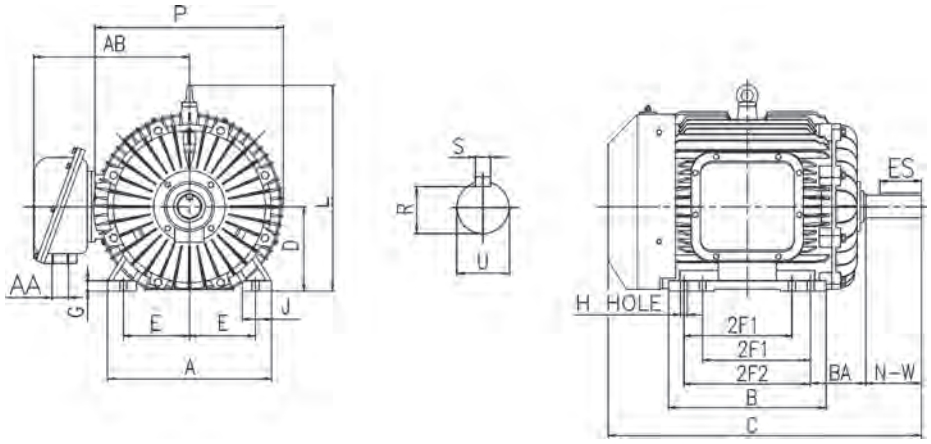


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For an exact drawing on a specific rating, please contact our sales office.

# WORLDWIDE EXPLOSION PROOF MOTORS
# PREMIUM EFFICIENCY

*TEXP Enclosure ▪ Rigid Base*

*Three-Phase ▪ 208-230/460, 460 and 575 Volt*




ALL DIMENSIONS IN INCHES

| Frame | E | 2F1 | 2F2 | H | BA | A | B | C | D | G | J | P | L | AB | S | ES | R | N-W | U | AA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 143T | 2.75 | 4.00 | 5.00 | 0.34 | 2.25 | 7.00 | 6.89 | 13.78 | 3.50 | 0.47 | 1.42 | 7.56 | 9.25 | 8.07 | 0.188 | 1.46 | 0.771 | 2.25 | 0.875 | 0.75 |
| 145T | 2.75 | 4.00 | 5.00 | 0.34 | 2.25 | 7.00 | 6.89 | 13.78 | 3.50 | 0.47 | 1.42 | 7.56 | 9.25 | 8.07 | 0.188 | 1.46 | 0.771 | 2.25 | 0.875 | 0.75 |
| 182T | 3.75 | 4.50 | 5.50 | 0.41 | 2.75 | 8.85 | 7.87 | 17.13 | 4.50 | 0.67 | 1.69 | 9.84 | 11.40 | 9.06 | 0.250 | 1.77 | 0.986 | 2.75 | 1.125 | 0.75 |
| 184T | 3.75 | 4.50 | 5.50 | 0.41 | 2.75 | 8.85 | 7.87 | 17.13 | 4.50 | 0.67 | 1.69 | 9.84 | 11.40 | 9.06 | 0.250 | 1.77 | 0.986 | 2.75 | 1.125 | 0.75 |
| 213T | 4.25 | 5.50 | 7.00 | 0.41 | 3.50 | 10.50 | 9.30 | 19.88 | 5.25 | 0.83 | 2.36 | 12.20 | 13.00 | 11.40 | 0.312 | 2.44 | 1.201 | 3.38 | 1.375 | 1.00 |
| 215T | 4.25 | 5.50 | 7.00 | 0.41 | 3.50 | 10.50 | 9.30 | 19.88 | 5.25 | 0.83 | 2.36 | 12.20 | 13.00 | 11.40 | 0.312 | 2.44 | 1.201 | 3.38 | 1.375 | 1.00 |
| 254T | 5.00 | 8.25 | 10.00 | 0.53 | 4.25 | 12.36 | 12.40 | 25.00 | 6.25 | 0.87 | 2.76 | 14.00 | 15.55 | 13.58 | 0.375 | 2.91 | 1.416 | 4.00 | 1.625 | 1.25 |
| 256T | 5.00 | 8.25 | 10.00 | 0.53 | 4.25 | 12.36 | 12.40 | 25.00 | 6.25 | 0.87 | 2.76 | 14.00 | 15.55 | 13.58 | 0.375 | 2.91 | 1.416 | 4.00 | 1.625 | 1.25 |
| 284T | 5.50 | 9.50 | 11.00 | 0.53 | 4.75 | 13.74 | 13.74 | 28.50 | 7.00 | 0.87 | 2.76 | 16.30 | 17.52 | 14.37 | 0.500 | 3.30 | 1.591 | 4.62 | 1.875 | 1.50 |
| 284TS | 5.50 | 9.50 | 11.00 | 0.53 | 4.75 | 13.74 | 13.74 | 27.20 | 7.00 | 0.87 | 2.76 | 16.30 | 17.52 | 14.37 | 0.375 | 1.93 | 1.416 | 3.25 | 1.625 | 1.50 |
| 286T | 5.50 | 9.50 | 11.00 | 0.53 | 4.75 | 13.74 | 13.74 | 28.50 | 7.00 | 0.87 | 2.76 | 16.30 | 17.52 | 14.37 | 0.500 | 3.30 | 1.591 | 4.62 | 1.875 | 1.50 |
| 286TS | 5.50 | 9.50 | 11.00 | 0.53 | 4.75 | 13.74 | 13.74 | 27.20 | 7.00 | 0.87 | 2.76 | 16.30 | 17.52 | 14.37 | 0.375 | 1.93 | 1.416 | 3.25 | 1.625 | 1.50 |
| 324T | 6.25 | 10.50 | 12.00 | 0.66 | 5.25 | 15.55 | 14.92 | 31.90 | 8.00 | 0.98 | 2.76 | 18.03 | 19.90 | 15.40 | 0.500 | 3.93 | 1.845 | 5.25 | 2.125 | 2.00 |
| 324TS | 6.25 | 10.50 | 12.00 | 0.66 | 5.25 | 15.55 | 14.92 | 30.30 | 8.00 | 0.98 | 2.76 | 18.03 | 19.90 | 15.40 | 0.500 | 2.05 | 1.591 | 3.75 | 1.875 | 2.00 |
| 326T | 6.25 | 10.50 | 12.00 | 0.66 | 5.25 | 15.55 | 14.92 | 31.90 | 8.00 | 0.98 | 2.76 | 18.03 | 19.90 | 15.40 | 0.500 | 3.93 | 1.845 | 5.25 | 2.125 | 2.00 |
| 326TS | 6.25 | 10.50 | 12.00 | 0.66 | 5.25 | 15.55 | 14.92 | 30.30 | 8.00 | 0.98 | 2.76 | 18.03 | 19.90 | 15.40 | 0.500 | 2.05 | 1.591 | 3.75 | 1.875 | 2.00 |
| 364T | 7.00 | 11.25 | 12.25 | 0.66 | 5.88 | 17.10 | 15.47 | 34.84 | 9.00 | 0.98 | 2.95 | 19.70 | 22.00 | 17.10 | 0.625 | 4.29 | 2.021 | 5.88 | 2.375 | 3.00 |
| 364TS | 7.00 | 11.25 | 12.25 | 0.66 | 5.88 | 17.10 | 15.47 | 32.68 | 9.00 | 0.98 | 2.95 | 19.70 | 22.00 | 17.10 | 0.500 | 2.05 | 1.591 | 3.75 | 1.875 | 3.00 |
| 365T | 7.00 | 11.25 | 12.25 | 0.66 | 5.88 | 17.10 | 15.47 | 34.84 | 9.00 | 0.98 | 2.95 | 19.70 | 22.00 | 17.10 | 0.625 | 4.29 | 2.021 | 5.88 | 2.375 | 3.00 |
| 365TS | 7.00 | 11.25 | 12.25 | 0.66 | 5.88 | 17.10 | 15.47 | 32.68 | 9.00 | 0.98 | 2.95 | 19.70 | 22.00 | 17.10 | 0.500 | 2.05 | 1.591 | 3.75 | 1.875 | 3.00 |
| 404T | 8.00 | 12.25 | 13.75 | 0.81 | 6.62 | 19.00 | 17.05 | 38.60 | 10.00 | 1.18 | 3.15 | 21.81 | 25.00 | 18.70 | 0.750 | 5.71 | 2.450 | 7.25 | 2.875 | 3.00 |
| 405T | 8.00 | 12.25 | 13.75 | 0.81 | 6.62 | 19.00 | 17.05 | 38.60 | 10.00 | 1.18 | 3.15 | 21.81 | 25.00 | 18.70 | 0.750 | 5.71 | 2.450 | 7.25 | 2.875 | 3.00 |
| 405TS | 8.00 | 12.25 | 13.75 | 0.81 | 6.62 | 19.00 | 17.05 | 35.60 | 10.00 | 1.18 | 3.15 | 21.81 | 25.00 | 18.70 | 0.500 | 2.83 | 1.845 | 4.25 | 2.125 | 3.00 |
| 444/5T | 9.00 | 14.50 | 16.50 | 0.81 | 7.50 | 21.30 | 22.00 | 47.00 | 11.00 | 1.38 | 3.74 | 24.00 | 28.00 | 21.30 | 0.875 | 6.93 | 2.880 | 8.50 | 3.375 | 3.00 |
| 444/5TS | 9.00 | 14.50 | 16.50 | 0.81 | 7.50 | 21.30 | 22.00 | 43.30 | 11.00 | 1.38 | 3.74 | 24.00 | 28.00 | 21.30 | 0.625 | 3.03 | 2.021 | 4.75 | 2.375 | 3.00 |
| 445/7/9T | 9.00 | 20.00 | 25.00 | 0.81 | 7.50 | 21.30 | — | 55.50 | 11.00 | 1.38 | 3.74 | 24.00 | 28.00 | 21.30 | 0.875 | 6.93 | 2.880 | 8.50 | 3.375 | 3.00 |
| 447/9T-4P | 9.00 | 20.00 | 25.00 | 0.81 | 7.50 | 21.30 | — | 55.50 | 11.00 | 1.38 | 3.74 | 24.00 | 28.00 | 21.30 | 0.875 | 6.93 | 2.880 | 8.50 | 3.375 | 3.00 |
| 447/9T-6P | 9.00 | 20.00 | 25.00 | 0.81 | 7.50 | 21.30 | — | 55.70 | 11.00 | 1.38 | 3.74 | 24.00 | 28.00 | 21.30 | 0.875 | 6.93 | 2.880 | 8.50 | 3.375 | 3.00 |
| 447/9TS | 9.00 | 20.00 | 25.00 | 0.81 | 7.50 | 21.30 | — | 51.80 | 11.00 | 1.38 | 3.74 | 24.00 | 28.00 | 21.30 | 0.625 | 3.03 | 2.021 | 4.75 | 2.375 | 3.00 |

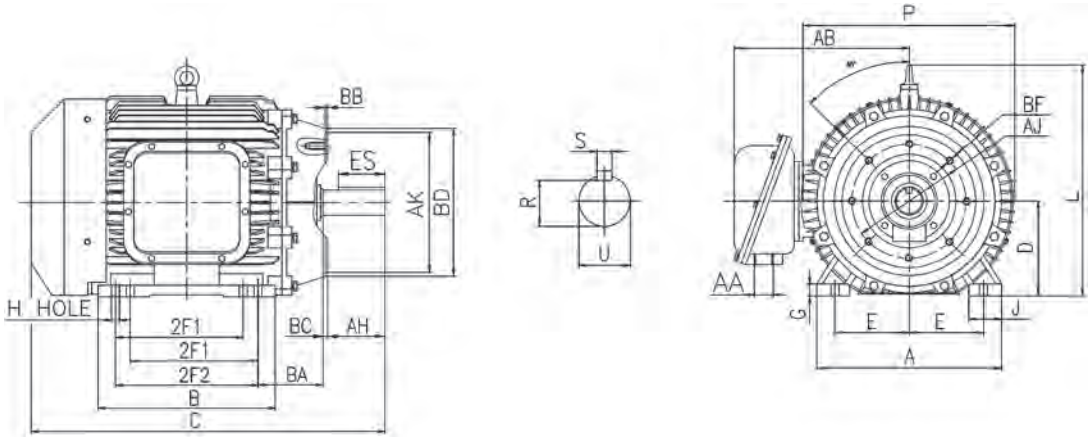


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# WORLDWIDE EXPLOSION PROOF MOTORS
# PREMIUM EFFICIENCY

*TEXP Enclosure ▪ C-Face ▪ Rigid Base*

*Three-Phase ▪ 208-230/460 and 460 Volt*




ALL DIMENSIONS IN INCHES

| Frame | E | 2F1 | 2F2 | H | BA | A | B | C | D | G | J | P | L | AB | S | ES | R | U | AA | BC | AH | AK | AJ | BF | BB | BD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 145TC | 2.75 | 4.00 | 5.00 | 0.34 | 2.25 | 7.00 | 6.89 | 13.78 | 3.50 | 0.47 | 1.42 | 7.56 | 9.25 | 8.07 | 0.188 | 1.46 | 0.771 | 0.875 | 0.75 | 0.12 | 2.12 | 4.5 | 5.90 | ⅜- 16 | 0.16 | 4.500 |
| 182TC | 3.75 | 4.50 | 5.50 | 0.41 | 2.75 | 8.85 | 7.87 | 17.13 | 4.50 | 0.67 | 1.69 | 9.84 | 11.40 | 9.06 | 0.250 | 1.77 | 0.986 | 1.125 | 0.75 | 0.12 | 2.62 | 8.5 | 7.25 | ½- 13 | 0.25 | 8.740 |
| 184TC | 3.75 | 4.50 | 5.50 | 0.41 | 2.75 | 8.85 | 7.87 | 17.13 | 4.50 | 0.67 | 1.69 | 9.84 | 11.40 | 9.06 | 0.250 | 1.77 | 0.986 | 1.125 | 0.75 | 0.12 | 2.62 | 8.5 | 7.25 | ½- 13 | 0.25 | 8.740 |
| 213TC | 4.25 | 5.50 | 7.00 | 0.41 | 3.50 | 10.50 | 9.30 | 19.88 | 5.25 | 0.83 | 2.36 | 12.20 | 13.00 | 11.40 | 0.312 | 2.44 | 1.201 | 1.375 | 1.00 | 0.25 | 3.12 | 8.5 | 7.25 | ½- 13 | 0.25 | 8.819 |
| 215TC | 4.25 | 5.50 | 7.00 | 0.41 | 3.50 | 10.50 | 9.30 | 19.88 | 5.25 | 0.83 | 2.36 | 12.20 | 13.00 | 11.40 | 0.312 | 2.44 | 1.201 | 1.375 | 1.00 | 0.25 | 3.12 | 8.5 | 7.25 | ½- 13 | 0.25 | 8.819 |
| 254TC | 5.00 | 8.25 | 10.00 | 0.53 | 4.25 | 12.36 | 12.4 | 25.00 | 6.25 | 0.87 | 2.76 | 14.00 | 15.55 | 13.58 | 0.375 | 2.91 | 1.416 | 1.625 | 1.25 | 0.25 | 3.75 | 8.5 | 7.25 | ½- 13 | 0.25 | 9.840 |
| 256TC | 5.00 | 8.25 | 10.00 | 0.53 | 4.25 | 12.36 | 12.4 | 25.00 | 6.25 | 0.87 | 2.76 | 14.00 | 15.55 | 13.58 | 0.375 | 2.91 | 1.416 | 1.625 | 1.25 | 0.25 | 3.75 | 8.5 | 7.25 | ½- 13 | 0.25 | 9.840 |
| 284TC | 5.50 | 9.50 | 11.00 | 0.53 | 4.75 | 13.74 | 13.74 | 28.50 | 7.00 | 0.87 | 2.76 | 16.30 | 17.52 | 14.37 | 0.500 | 3.30 | 1.591 | 1.875 | 1.50 | 0.25 | 4.38 | 10.5 | 9.00 | ½- 13 | 0.25 | 11.000 |
| 286TC | 5.50 | 9.50 | 11.00 | 0.53 | 4.75 | 13.74 | 13.74 | 28.50 | 7.00 | 0.87 | 2.76 | 16.30 | 17.52 | 14.37 | 0.500 | 3.30 | 1.591 | 1.875 | 1.50 | 0.25 | 4.38 | 10.5 | 9.00 | ½- 13 | 0.25 | 11.000 |
| 324TC | 6.25 | 10.50 | 12.00 | 0.66 | 5.25 | 15.55 | 14.92 | 31.90 | 8.00 | 0.98 | 2.76 | 18.03 | 19.90 | 15.40 | 0.500 | 3.93 | 1.845 | 2.125 | 2.00 | 0.25 | 5.00 | 12.5 | 11.00 | ⅝- 11 | 0.25 | 13.600 |
| 326TC | 6.25 | 10.50 | 12.00 | 0.66 | 5.25 | 15.55 | 14.92 | 31.90 | 8.00 | 0.98 | 2.76 | 18.03 | 19.90 | 15.40 | 0.500 | 3.93 | 1.845 | 2.125 | 2.00 | 0.25 | 5.00 | 12.5 | 11.00 | ⅝- 11 | 0.25 | 13.600 |
| 364TC | 7.00 | 11.25 | 12.25 | 0.66 | 5.88 | 17.10 | 15.47 | 34.84 | 9.00 | 0.98 | 2.95 | 19.70 | 22.00 | 17.10 | 0.625 | 4.29 | 2.021 | 2.375 | 3.00 | 0.25 | 5.62 | 12.5 | 11.00 | ⅝- 11 | 0.25 | 13.600 |
| 365TC | 7.00 | 11.25 | 12.25 | 0.66 | 5.88 | 17.10 | 15.47 | 34.84 | 9.00 | 0.98 | 2.95 | 19.70 | 22.00 | 17.10 | 0.625 | 4.29 | 2.021 | 2.375 | 3.00 | 0.25 | 5.62 | 12.5 | 11.00 | ⅝- 11 | 0.25 | 13.600 |
| 405TC | 8.00 | 12.25 | 13.75 | 0.81 | 6.62 | 19.00 | 17.05 | 38.60 | 10.00 | 1.18 | 3.15 | 21.81 | 25.00 | 18.70 | 0.750 | 5.71 | 2.45 | 2.875 | 3.00 | 0.25 | 7.00 | 12.5 | 11.00 | ⅝- 11 | 0.25 | 15.350 |
| 444/5TC | 9.00 | 14.50 | 16.50 | 0.81 | 7.50 | 21.30 | 22.00 | 47.00 | 11.00 | 1.38 | 3.74 | 24.00 | 28.00 | 21.30 | 0.875 | 6.93 | 2.88 | 3.375 | 3.00 | 0.25 | 8.25 | 16.0 | 14.00 | ⅝- 11 | 0.25 | 18.000 |
| 445/7/9TC | 9.00 | 20.00 | 25.00 | 0.81 | 7.50 | 21.30 | — | 55.50 | 11.00 | 1.38 | 3.74 | 24.00 | 28.00 | 21.30 | 0.875 | 6.93 | 2.88 | 3.375 | 3.00 | 0.25 | 8.25 | 16.0 | 14.00 | ⅝- 11 | 0.25 | 18.000 |

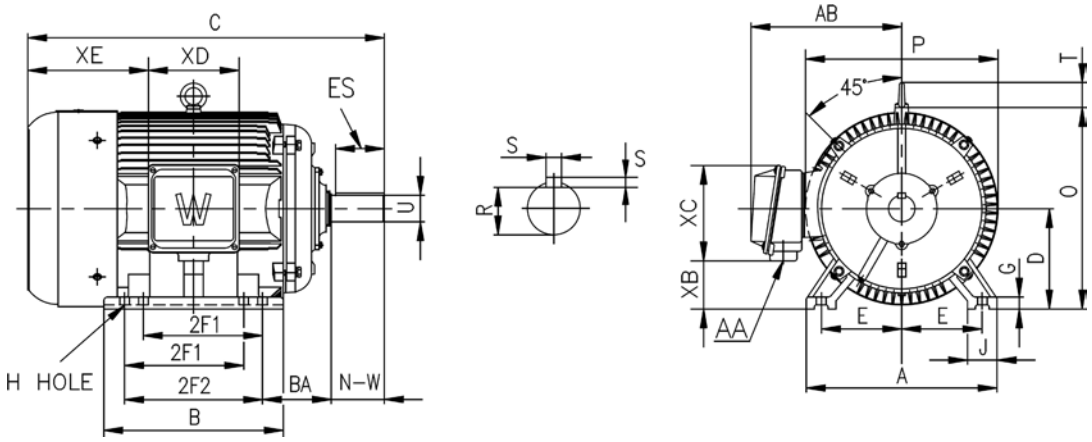


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# WORLDWIDE AGGREGATE MOTORS
# NEMA DESIGN C - HIGH TORQUE

*TEFC Enclosure ▪ Rigid Base*

*Three-Phase ▪ 208-230/460 Volt*




ALL DIMENSIONS IN INCHES

| Frame | E | 2F1 | 2F2 | H | BA | A | B | C | D | G | J | P | O | AB | T | S | ES | R | N-W | U | AA | XB | XC | XD | XE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 143T | 2.75 | — | 4.00 | 0.34 | 2.25 | 7.0 | 5.0 | 12.47 | 3.50 | 0.512 | 1.45 | 7.16 | 7.08 | 6.89 | — | 0.188 | 1.41 | 0.771 | 2.25 | 0.875 | 0.75 | 1.65 | 4.49 | 4.09 | 3.94 |
| 145T | 2.75 | 4.00 | 5.00 | 0.34 | 2.25 | 7.0 | 6.0 | 13.58 | 3.50 | 0.512 | 1.45 | 7.16 | 7.08 | 6.89 | — | 0.188 | 1.41 | 0.771 | 2.25 | 0.875 | 0.75 | 1.65 | 4.49 | 4.09 | 4.45 |
| 182T | 3.75 | — | 4.50 | 0.41 | 2.75 | 9.0 | 6.5 | 15.11 | 4.50 | 0.590 | 1.97 | 8.82 | 8.97 | 7.45 | 1.42 | 0.250 | 1.78 | 0.986 | 2.75 | 1.125 | 1.00 | 2.05 | 5.00 | 4.57 | 4.88 |
| 184T | 3.75 | 4.50 | 5.50 | 0.41 | 2.75 | 9.0 | 7.5 | 16.12 | 4.50 | 0.590 | 1.97 | 8.82 | 8.97 | 7.45 | 1.42 | 0.250 | 1.78 | 0.986 | 2.75 | 1.125 | 1.00 | 2.05 | 5.00 | 4.57 | 5.39 |
| 213T | 4.25 | — | 5.50 | 0.41 | 3.50 | 10.5 | 7.5 | 18.89 | 5.25 | 0.709 | 2.36 | 10.40 | 10.53 | 8.63 | 1.73 | 0.312 | 2.41 | 1.201 | 3.38 | 1.375 | 1.00 | 2.95 | 5.00 | 4.57 | 6.77 |
| 215T | 4.25 | 5.50 | 7.00 | 0.41 | 3.50 | 10.5 | 9.0 | 20.49 | 5.25 | 0.709 | 2.36 | 10.40 | 10.53 | 8.63 | 1.73 | 0.312 | 2.41 | 1.201 | 3.38 | 1.375 | 1.00 | 2.95 | 5.00 | 4.57 | 7.48 |
| 254T | 5.00 | — | 8.25 | 0.53 | 4.25 | 12.5 | 10.8 | 23.29 | 6.25 | 0.787 | 2.76 | 12.60 | 12.89 | 11.20 | 2.05 | 0.375 | 2.91 | 1.416 | 4.00 | 1.625 | 1.50 | 3.00 | 7.20 | 6.30 | 7.76 |
| 256T | 5.00 | 8.25 | 10.00 | 0.53 | 4.25 | 12.5 | 12.5 | 25.06 | 6.25 | 0.787 | 2.76 | 12.60 | 12.89 | 11.20 | 2.05 | 0.375 | 2.91 | 1.416 | 4.00 | 1.625 | 1.50 | 3.00 | 7.20 | 6.30 | 8.66 |
| 284T | 5.50 | — | 9.50 | 0.53 | 4.75 | 14.0 | 12.5 | 26.64 | 7.00 | 0.866 | 2.76 | 14.17 | 14.28 | 12.00 | 2.05 | 0.500 | 3.28 | 1.591 | 4.62 | 1.875 | 1.50 | 3.58 | 7.20 | 6.30 | 9.13 |
| 286T | 5.50 | 9.50 | 11.00 | 0.53 | 4.75 | 14.0 | 14.0 | 28.18 | 7.00 | 0.866 | 2.76 | 14.17 | 14.28 | 12.00 | 2.05 | 0.500 | 3.28 | 1.591 | 4.62 | 1.875 | 1.50 | 3.58 | 7.20 | 6.30 | 9.61 |
| 324T | 6.25 | — | 10.50 | 0.66 | 5.25 | 16.0 | 14.0 | 29.95 | 8.00 | 0.984 | 2.76 | 15.75 | 15.91 | 13.40 | 2.44 | 0.500 | 3.91 | 1.845 | 5.25 | 2.125 | 2.00 | 2.64 | 10.55 | 8.98 | 9.68 |
| 326T | 6.25 | 10.50 | 12.00 | 0.66 | 5.25 | 16.0 | 15.5 | 31.24 | 8.00 | 0.984 | 2.76 | 15.75 | 15.91 | 13.40 | 2.44 | 0.500 | 3.91 | 1.845 | 5.25 | 2.125 | 2.00 | 2.64 | 10.55 | 8.98 | 10.47 |
| 364T | 7.00 | — | 11.25 | 0.66 | 5.88 | 18.0 | 15.2 | 32.68 | 9.00 | 1.102 | 2.95 | 17.70 | 18.13 | 15.70 | 2.44 | 0.625 | 4.28 | 2.021 | 5.88 | 2.375 | 3.00 | 3.74 | 10.55 | 8.98 | 10.83 |
| 365T | 7.00 | 11.25 | 12.25 | 0.66 | 5.88 | 18.0 | 16.2 | 34.11 | 9.00 | 1.102 | 2.95 | 17.70 | 18.13 | 15.70 | 2.44 | 0.625 | 4.28 | 2.021 | 5.88 | 2.375 | 3.00 | 3.74 | 10.55 | 8.98 | 11.30 |
| 404T | 8.00 | — | 12.25 | 0.81 | 6.62 | 20.0 | 16.2 | 36.81 | 10.00 | 1.180 | 3.15 | 21.42 | 21.02 | 18.31 | 2.83 | 0.750 | 5.65 | 2.450 | 7.25 | 2.875 | 3.00 | 4.57 | 11.73 | 9.76 | 11.69 |
| 405T | 8.00 | 12.25 | 13.75 | 0.81 | 6.62 | 20.0 | 17.8 | 38.35 | 10.00 | 1.180 | 3.15 | 21.42 | 21.02 | 18.31 | 2.83 | 0.750 | 5.65 | 2.450 | 7.25 | 2.875 | 3.00 | 4.57 | 11.73 | 9.76 | 12.48 |
| 444T | 9.00 | — | 14.50 | 0.81 | 7.50 | 22.0 | 18.5 | 42.52 | 11.00 | 1.380 | 3.35 | 23.43 | 22.97 | 19.41 | 3.46 | 0.875 | 6.91 | 2.880 | 8.50 | 3.375 | 2 x 3 | 5.67 | 11.73 | 11.34 | 13.39 |
| 445T | 9.00 | 14.50 | 16.50 | 0.81 | 7.50 | 22.0 | 20.5 | 44.5 | 11.00 | 1.380 | 3.35 | 23.43 | 22.97 | 19.41 | 3.46 | 0.875 | 6.91 | 2.880 | 8.50 | 3.375 | 2 x 3 | 5.67 | 11.73 | 11.34 | 14.37 |
| 445/7T | 9.00 | 16.50 | 20.00 | 0.81 | 7.50 | 22.0 | 24.0 | 48.03 | 11.00 | 1.380 | 3.35 | 23.43 | 22.97 | 19.41 | 3.46 | 0.875 | 6.91 | 2.880 | 8.50 | 3.375 | 2 x 3 | 5.67 | 11.73 | 11.34 | 18.90 |
| 449T | 9.00 | — | 25.00 | 0.81 | 7.50 | 22.0 | 31.0 | 55.51 | 11.00 | 1.575 | 3.35 | 24.00 | 23.00 | 19.07 | 4.25 | 0.875 | 7.01 | 2.880 | 8.50 | 3.375 | 3.00 | 4.74 | 11.80 | — | 20.00 |

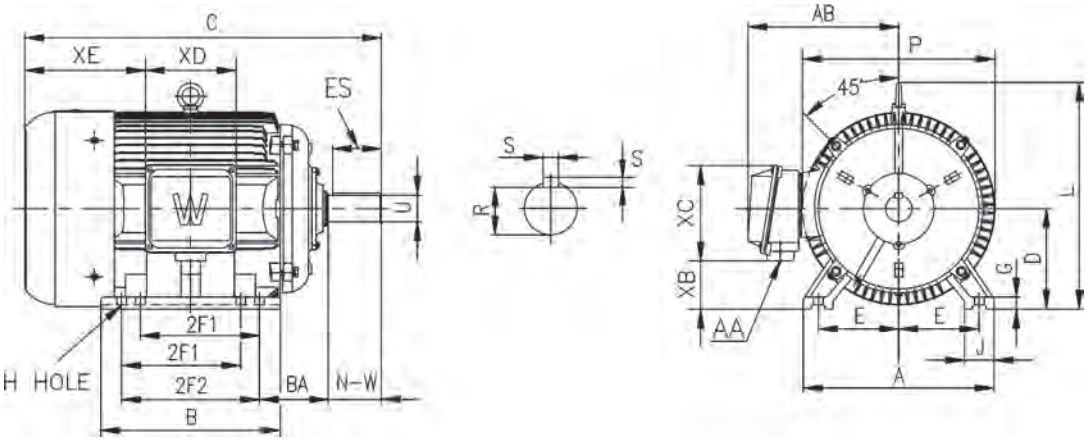


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# WORLDWIDE AGGREGATE MOTORS
# ADVANCED DESIGN ROCK CRUSHER

*TEFC Enclosure ▪ Rigid Base*

*Three-Phase ▪ 208-230/460 and 460 Volt*




ALL DIMENSIONS IN INCHES

| Frame | E | 2F1 | 2F2 | H | BA | A | B | C | D | G | J | P | O | AB | T | S | ES | R | N-W | U | AA | XB | XC | XD | XE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 405T | 8.0 | 12.25 | 13.75 | 0.810 | 6.62 | 20.00 | 17.80 | 38.35 | 10.0 | 1.180 | 3.15 | 21.42 | 21.02 | 18.31 | 2.83 | 0.750 | 5.65 | 2.450 | 7.250 | 2.875 | 3.00 | 4.57 | 11.73 | 9.76 | 12.48 |
| 444T | 9.0 | — | 14.50 | 0.810 | 7.50 | 22.00 | 18.50 | 42.52 | 11.0 | 1.380 | 3.35 | 23.43 | 22.97 | 19.41 | 3.46 | 0.875 | 6.91 | 2.880 | 8.500 | 3.375 | 2 x 3 | 5.67 | 11.73 | 11.34 | 13.39 |
| 445T | 9.0 | 14.50 | 16.50 | 0.810 | 7.50 | 22.00 | 20.50 | 44.50 | 11.0 | 1.380 | 3.35 | 23.43 | 22.97 | 19.41 | 3.46 | 0.875 | 6.91 | 2.880 | 8.500 | 3.375 | 2 x 3 | 5.67 | 11.73 | 11.34 | 14.37 |
| 445/7T | 9.0 | 16.50 | 20.00 | 0.810 | 7.50 | 22.00 | 24.00 | 48.03 | 11.0 | 1.380 | 3.35 | 23.43 | 22.97 | 19.41 | 3.46 | 0.875 | 6.91 | 2.880 | 8.500 | 3.375 | 2 x 3 | 5.67 | 11.73 | 11.34 | 18.90 |
| 449T | 9.0 | — | 25.00 | 0.810 | 7.50 | 22.00 | 31.00 | 55.51 | 11.0 | 1.575 | 3.35 | 24.00 | 23.00 | 19.07 | 4.25 | 0.875 | 7.01 | 2.880 | 8.500 | 3.375 | 3.00 | 4.74 | 11.80 | — | 20.00 |
| 505Z | 10.0 | 16.00 | 18.00 | 0.938 | 8.50 | 24.72 | 26.00 | 53.00 | 12.5 | 1.870 | 4.72 | 25.00 | 25.30 | 20.90 | 4.25 | 0.875 | 9.00 | 3.134 | 10.625 | 3.625 | 2 x 3 | — | — | — | — |
| 505UZ | 10.0 | 16.00 | 18.00 | 0.938 | 8.50 | 24.72 | 26.00 | 54.00 | 12.5 | 1.870 | 4.72 | 25.00 | 25.30 | 20.90 | 4.25 | 1.000 | 10.00 | 3.309 | 11.625 | 3.875 | 2 x 3 | — | — | — | — |
| 586/7 | 11.5 | 22.00 | 25.00 | 1.125 | 10.00 | 28.00 | 33.85 | 65.60 | 14.5 | 2.050 | 5.00 | 28.15 | 28.87 | 23.90 | 4.99 | 1.000 | 10.00 | 3.309 | 11.625 | 3.875 | 2 x 3 | 5.30 | 16.10 | 13.90 | 23.00 |
| 586/7UZ | 11.5 | 22.00 | 25.00 | 1.125 | 10.00 | 28.00 | 33.85 | 65.60 | 14.5 | 2.050 | 5.00 | 28.15 | 28.87 | 23.90 | 4.99 | 1.000 | 10.00 | 3.817 | 11.625 | 4.375 | 2 x 3 | 5.30 | 16.10 | 13.90 | 23.00 |

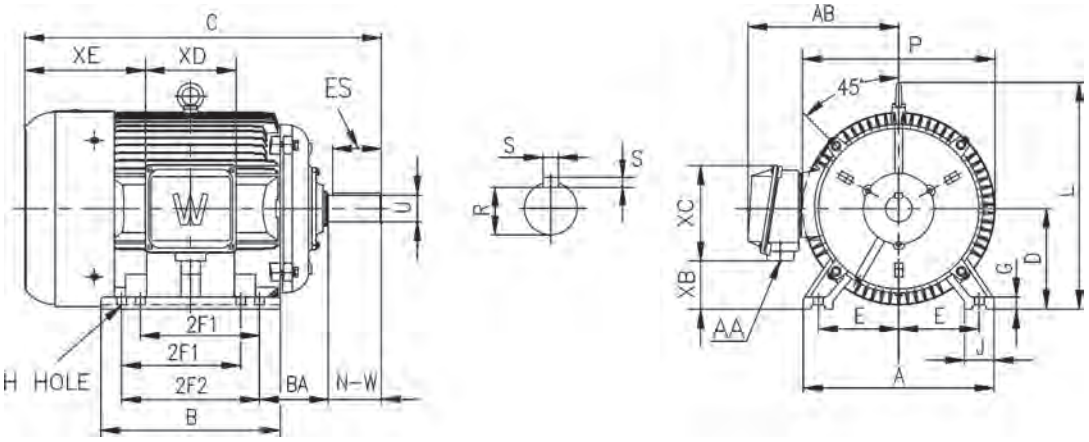


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# WORLDWIDE AGGREGATE MOTORS
# SHAKER SCREEN MOTORS

*TEFC Enclosure ▪ Rigid Base*

*Three-Phase ▪ 208-230/460 Volt*




ALL DIMENSIONS IN INCHES

| Frame | E | 2F1 | 2F2 | H | BA | A | B | C | D | G | J | P | O | AB | T | S | ES | R | N-W | U | AA | XB | XC | XD | XE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 326T | 6.25 | 10.50 | 12.00 | 0.66 | 5.25 | 16 | 15.5 | 31.24 | 8 | 0.984 | 2.76 | 15.75 | 15.91 | 13.40 | 2.44 | 0.500 | 3.91 | 1.845 | 5.25 | 2.125 | 2.00 | 2.64 | 10.55 | 8.98 | 10.47 |
| 365T | 7.00 | 11.25 | 12.25 | 0.66 | 5.88 | 18 | 16.2 | 34.11 | 9 | 1.102 | 2.95 | 17.70 | 18.13 | 15.70 | 2.44 | 0.625 | 4.28 | 2.021 | 5.88 | 2.375 | 3.00 | 3.74 | 10.55 | 8.98 | 11.30 |
| 404T | 8.00 | — | 12.25 | 0.81 | 6.62 | 20 | 16.2 | 36.81 | 10 | 1.180 | 3.15 | 21.42 | 21.02 | 18.31 | 2.83 | 0.750 | 5.65 | 2.450 | 7.25 | 2.875 | 3.00 | 4.57 | 11.73 | 9.76 | 11.69 |

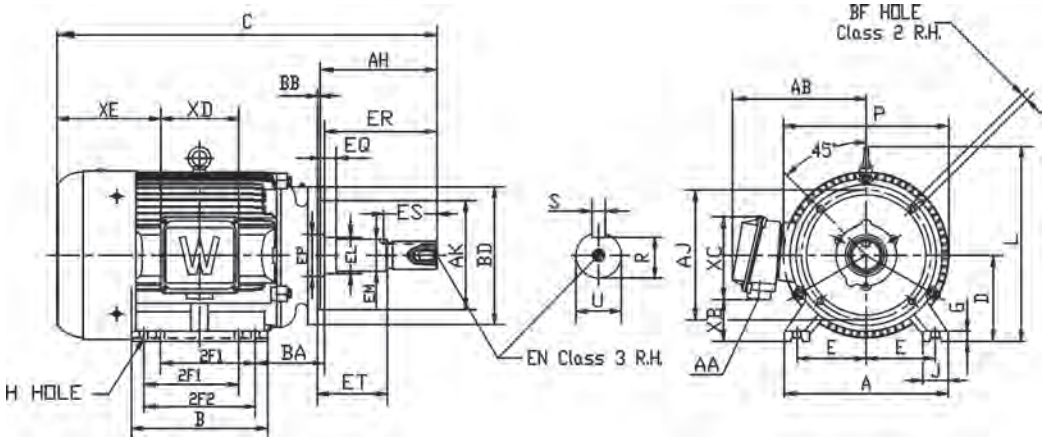


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# WORLDWIDE CLOSE COUPLED PUMP MOTORS
# EISA-COMPLIANT HIGH EFFICIENCY

*TEFC Enclosure ▪ C-Face ▪ Rigid Base*

*Three-Phase ▪ 208-230/460 Volt*




ALL DIMENSIONS IN INCHES

| Frame | E | 2F1 | 2F2 | H | BA | A | B | C | D | G | J | P | L | AB | S | ES | R | U |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 143JM | 2.75 | — | 4.00 | 0.34 | 2.75 | 7.0 | 5.0 | 14.92 | 3.50 | 0.512 | 1.45 | 7.16 | 7.08 | 6.89 | 0.188 | 1.772 | 0.771 | 0.875 |
| 143JP | 2.75 | — | 4.00 | 0.34 | 2.75 | 7.0 | 5.0 | 17.99 | 3.50 | 0.512 | 1.45 | 7.16 | 7.08 | 6.89 | 0.188 | 1.772 | 0.771 | 0.875 |
| 145JM | 2.75 | 4.00 | 5.00 | 0.34 | 2.75 | 7.0 | 6.0 | 15.91 | 3.50 | 0.512 | 1.45 | 7.16 | 7.08 | 6.89 | 0.188 | 1.772 | 0.771 | 0.875 |
| 145JP | 2.75 | 4.00 | 5.00 | 0.34 | 2.75 | 7.0 | 6.0 | 18.98 | 3.50 | 0.512 | 1.45 | 7.16 | 7.08 | 6.89 | 0.188 | 1.772 | 0.771 | 0.875 |
| 182JM | 3.75 | — | 4.50 | 0.41 | 3.5 | 9.0 | 6.5 | 16.97 | 4.50 | 0.590 | 1.97 | 8.82 | 10.39 | 7.45 | 0.188 | 1.732 | 0.771 | 0.875 |
| 182JP | 3.75 | — | 4.50 | 0.41 | 3.5 | 9.0 | 6.5 | 20.04 | 4.50 | 0.590 | 1.97 | 8.82 | 10.39 | 7.45 | 0.188 | 1.732 | 0.771 | 0.875 |
| 184JM | 3.75 | 4.50 | 5.50 | 0.41 | 3.5 | 9.0 | 7.5 | 18.00 | 4.50 | 0.590 | 1.97 | 8.82 | 10.39 | 7.45 | 0.188 | 1.732 | 0.771 | 0.875 |
| 184JP | 3.75 | 4.50 | 5.50 | 0.41 | 3.5 | 9.0 | 7.5 | 21.06 | 4.50 | 0.590 | 1.97 | 8.82 | 10.39 | 7.45 | 0.188 | 1.732 | 0.771 | 0.875 |
| 213JM | 4.25 | — | 5.50 | 0.41 | 4.25 | 10.5 | 7.5 | 20.51 | 5.25 | 0.709 | 2.36 | 10.40 | 12.26 | 8.63 | 0.188 | 1.732 | 0.771 | 0.875 |
| 213JP | 4.25 | — | 5.50 | 0.41 | 4.25 | 10.5 | 7.5 | 24.37 | 5.25 | 0.709 | 2.36 | 10.40 | 12.26 | 8.63 | 0.250 | 2.600 | 1.112 | 1.250 |
| 215JM | 4.25 | 5.50 | 7.00 | 0.41 | 4.25 | 10.5 | 9.0 | 22.00 | 5.25 | 0.709 | 2.36 | 10.40 | 12.26 | 8.63 | 0.188 | 1.732 | 0.771 | 0.875 |
| 215JP | 4.25 | 5.50 | 7.00 | 0.41 | 4.25 | 10.5 | 9.0 | 25.87 | 5.25 | 0.709 | 2.36 | 10.40 | 12.26 | 8.63 | 0.25 | 2.600 | 1.112 | 1.250 |
| 254JM | 5.00 | — | 8.25 | 0.53 | 4.25 | 12.5 | 10.8 | 25.18 | 6.25 | 0.787 | 2.76 | 12.60 | 14.94 | 11.20 | 0.250 | 2.600 | 1.112 | 1.250 |
| 254JP | 5.00 | — | 8.25 | 0.53 | 4.25 | 12.5 | 10.8 | 28.00 | 6.25 | 0.787 | 2.76 | 12.60 | 14.94 | 11.20 | 0.250 | 2.600 | 1.112 | 1.250 |
| 256JM | 5.00 | 8.25 | 10.00 | 0.53 | 4.25 | 12.5 | 12.5 | 26.89 | 6.25 | 0.787 | 2.76 | 12.60 | 14.94 | 11.20 | 0.250 | 2.600 | 1.112 | 1.250 |
| 256JP | 5.00 | 8.25 | 10.00 | 0.53 | 4.25 | 12.5 | 12.5 | 29.72 | 6.25 | 0.787 | 2.76 | 12.60 | 14.94 | 11.20 | 0.250 | 2.600 | 1.112 | 1.250 |
| 284JM | 5.50 | — | 9.50 | 0.53 | 4.75 | 14.0 | 12.5 | 29.00 | 7.00 | 0.870 | 2.76 | 13.98 | 16.33 | 12.00 | 0.250 | 2.600 | 1.112 | 1.250 |
| 284JP | 5.50 | — | 9.50 | 0.53 | 4.75 | 14.0 | 12.5 | 31.85 | 7.00 | 0.870 | 2.76 | 13.98 | 16.33 | 12.00 | 0.250 | 2.600 | 1.112 | 1.250 |
| 286JM | 5.50 | 9.50 | 11.00 | 0.53 | 4.75 | 14.0 | 14.0 | 29.00 | 7.00 | 0.870 | 2.76 | 13.98 | 16.33 | 12.00 | 0.250 | 2.600 | 1.112 | 1.250 |
| 286JP | 5.50 | 9.50 | 11.00 | 0.53 | 4.75 | 14.0 | 14.0 | 31.85 | 7.00 | 0.870 | 2.76 | 13.98 | 16.33 | 12.00 | 0.250 | 2.600 | 1.112 | 1.250 |
| 324JM | 6.25 | — | 10.50 | 0.66 | 5.25 | 16.0 | 14.0 | 29.72 | 8.00 | 0.984 | 2.76 | 15.55 | 18.35 | 13.40 | 0.250 | 2.600 | 1.112 | 1.250 |
| 324JP | 6.25 | — | 10.50 | 0.66 | 5.25 | 16.0 | 14.0 | 32.56 | 8.00 | 0.984 | 2.76 | 15.55 | 18.35 | 13.40 | 0.250 | 2.600 | 1.112 | 1.250 |
| 326JM | 6.25 | 10.50 | 12.00 | 0.66 | 5.25 | 16.0 | 15.5 | 31.30 | 8.00 | 0.984 | 2.76 | 15.55 | 18.35 | 13.40 | 0.250 | 2.600 | 1.112 | 1.250 |
| 326JP | 6.25 | 10.50 | 12.00 | 0.66 | 5.25 | 16.0 | 15.5 | 34.13 | 8.00 | 0.984 | 2.76 | 15.55 | 18.35 | 13.40 | 0.250 | 2.600 | 1.112 | 1.250 |



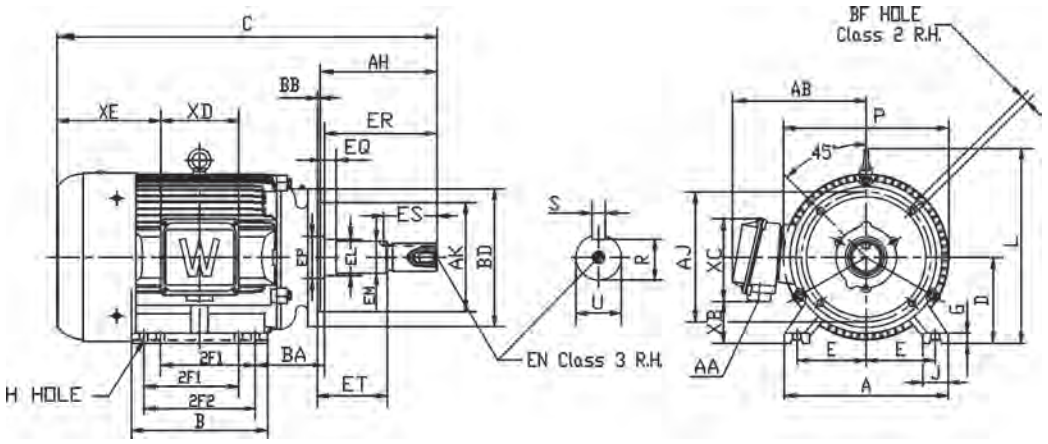
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Continued On Next Page

# WORLDWIDE CLOSE COUPLED PUMP MOTORS
# EISA-COMPLIANT HIGH EFFICIENCY

*TEFC Enclosure ▪ C-Face ▪ Rigid Base*

*Three-Phase ▪ 208-230/460 Volt*




ALL DIMENSIONS IN INCHES

| Frame | AA | XB | XC | XD | XE | AH | AK | AJ | BF | BB | BD | EQ | ET | EM | EL | EP | ER | EN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 143JM | 0.75 | 1.65 | 4.49 | 4.09 | 3.94 | 4.250 | 4.5 | 5.875 | ⅜- 16 | 0.15 | 6.575 | 0.625 | 2.875 | 1.000 | 1.155 | 1.156 | 4.370 | ⅜- 16 |
| 143JP | 0.75 | 1.65 | 4.49 | 4.09 | 3.94 | 7.312 | 4.5 | 5.875 | ⅜- 16 | 0.15 | 6.575 | 1.563 | 5.937 | 1.000 | 1.155 | 1.181 | 7.429 | ⅜- 16 |
| 145JM | 0.75 | 1.65 | 4.49 | 4.09 | 4.45 | 4.250 | 4.5 | 5.875 | ⅜- 16 | 0.15 | 6.575 | 0.625 | 2.875 | 1.000 | 1.412 | 1.156 | 4.370 | ⅜- 16 |
| 145JP | 0.75 | 1.65 | 4.49 | 4.09 | 4.45 | 7.312 | 4.5 | 5.875 | ⅜- 16 | 0.15 | 6.575 | 1.563 | 5.937 | 1.000 | 1.155 | 1.181 | 7.429 | ⅜- 16 |
| 182JM | 1.00 | 2.05 | 5.00 | 4.57 | 4.88 | 4.250 | 4.5 | 5.875 | ⅜- 16 | 0.15 | 6.575 | 0.625 | 2.875 | 1.000 | 1.250 | 1.380 | 4.250 | ⅜- 16 |
| 182JP | 1.00 | 2.05 | 5.00 | 4.57 | 4.88 | 7.312 | 4.5 | 5.875 | ⅜- 16 | 0.15 | 6.575 | 1.563 | 5.937 | 1.000 | 1.250 | 1.380 | 7.185 | ⅜- 16 |
| 184JM | 1.00 | 2.05 | 5.00 | 4.57 | 5.39 | 4.250 | 4.5 | 5.875 | ⅜- 16 | 0.15 | 6.575 | 0.625 | 2.875 | 1.000 | 1.250 | 1.380 | 4.250 | ⅜- 16 |
| 184JP | 1.00 | 2.05 | 5.00 | 4.57 | 5.39 | 7.312 | 4.5 | 5.875 | ⅜- 16 | 0.15 | 6.575 | 1.563 | 5.937 | 1.000 | 1.250 | 1.380 | 7.185 | ⅜- 16 |
| 213JM | 1.00 | 2.95 | 5.00 | 4.57 | 6.77 | 4.250 | 8.5 | 7.250 | ½-13 | 0.25 | 8.900 | 0.625 | 2.875 | 1.000 | 1.250 | 1.772 | 4.496 | ⅜- 16 |
| 213JP | 1.00 | 2.95 | 5.00 | 4.57 | 6.77 | 8.125 | 8.5 | 7.250 | ½-13 | 0.25 | 8.900 | 2.375 | 5.875 | 1.375 | 1.750 | 1.772 | 8.370 | ½- 13 |
| 215JM | 1.00 | 2.95 | 5.00 | 4.57 | 7.48 | 4.250 | 8.5 | 7.250 | ½-13 | 0.25 | 8.900 | 0.625 | 2.875 | 1.375 | 1.250 | 1.772 | 4.496 | ⅜- 16 |
| 215JP | 1.00 | 2.95 | 5.00 | 4.57 | 7.48 | 8.125 | 8.5 | 7.250 | ½-13 | 0.25 | 8.900 | 2.375 | 5.875 | 1.375 | 1.750 | 1.772 | 8.370 | ½- 13 |
| 254JM | 1.50 | 3.00 | 7.20 | 6.30 | 7.76 | 5.250 | 8.5 | 7.250 | ½-13 | 0.25 | 10.000 | 0.625 | 3.000 | 1.375 | 1.750 | 1.772 | 5.510 | ½- 13 |
| 254JP | 1.50 | 3.00 | 7.20 | 6.30 | 7.76 | 8.125 | 8.5 | 7.250 | ½-13 | 0.25 | 10.000 | 2.375 | 5.890 | 1.375 | 1.750 | 1.772 | 8.348 | ½- 13 |
| 256JM | 1.50 | 3.00 | 7.20 | 6.30 | 8.66 | 5.250 | 8.5 | 7.250 | ½-13 | 0.25 | 10.000 | 0.625 | 3.000 | 1.375 | 1.750 | 1.772 | 5.510 | ½- 13 |
| 256JP | 1.50 | 3.00 | 7.20 | 6.30 | 8.66 | 8.125 | 8.5 | 7.250 | ½-13 | 0.25 | 10.000 | 2.375 | 5.890 | 1.375 | 1.750 | 1.772 | 8.348 | ½- 13 |
| 284JM | 1.50 | 3.58 | 7.20 | 6.30 | 8.86 | 5.250 | 12.5 | 11.000 | ⅝-11 | 0.25 | 13.200 | 0.625 | 3.000 | 1.375 | 1.750 | 2.165 | 5.530 | ½- 13 |
| 284JP | 1.50 | 3.58 | 7.20 | 6.30 | 8.86 | 8.125 | 12.5 | 11.000 | ⅝-11 | 0.25 | 13.200 | 2.375 | 5.875 | 1.375 | 1.750 | 2.165 | 8.400 | ½- 13 |
| 286JM | 1.50 | 3.58 | 7.20 | 6.30 | 9.61 | 5.250 | 12.5 | 11.000 | ⅝-11 | 0.25 | 13.200 | 0.625 | 3.000 | 1.375 | 1.750 | 2.165 | 5.530 | ½- 13 |
| 286JP | 1.50 | 3.58 | 7.20 | 6.30 | 9.61 | 8.125 | 12.5 | 11.000 | ⅝-11 | 0.25 | 13.200 | 2.375 | 5.875 | 1.375 | 1.750 | 2.165 | 8.400 | ½- 13 |
| 324JM | 2.00 | 2.64 | 10.55 | 8.98 | 9.68 | 5.250 | 12.5 | 11.000 | ⅝-11 | 0.25 | 13.800 | 0.625 | 3.000 | 1.375 | 1.750 | 2.360 | 5.530 | ½- 13 |
| 324JP | 2.00 | 2.64 | 10.55 | 8.98 | 9.68 | 8.125 | 12.5 | 11.000 | ⅝-11 | 0.25 | 13.800 | 2.375 | 5.875 | 1.375 | 1.750 | 2.360 | 8.420 | ½- 13 |
| 326JM | 2.00 | 2.64 | 10.55 | 8.98 | 9.68 | 5.250 | 12.5 | 11.000 | ⅝-11 | 0.25 | 13.800 | 0.625 | 3.000 | 1.375 | 1.750 | 2.360 | 5.530 | ½- 13 |
| 326JP | 2.00 | 2.64 | 10.55 | 8.98 | 9.68 | 8.125 | 12.5 | 11.000 | ⅝-11 | 0.25 | 13.800 | 2.375 | 5.875 | 1.375 | 1.750 | 2.360 | 8.420 | ½- 13 |

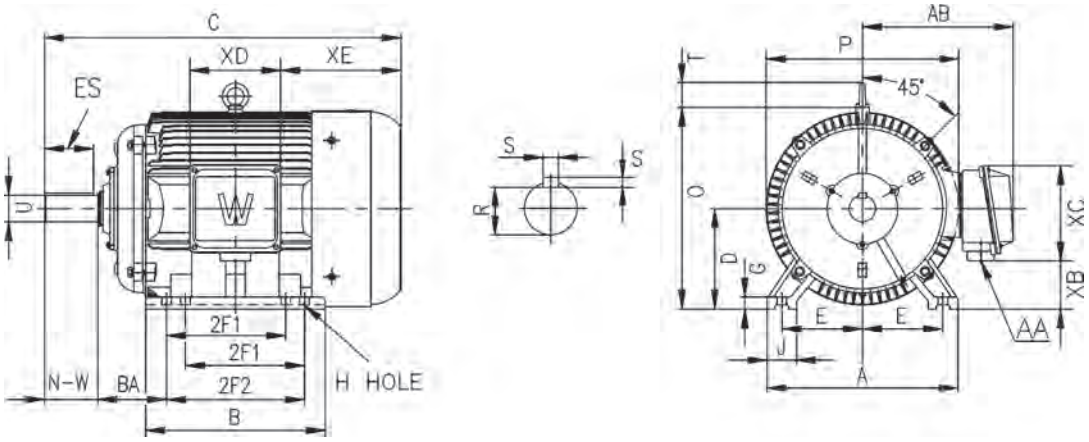


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# WORLDWIDE OIL WELL PUMP MOTORS
# EISA-COMPLIANT HIGH EFFICIENCY

*TEFC Enclosure ▪ Rigid Base*

*Three-Phase ▪ 230/460/796 Volt*




ALL DIMENSIONS IN INCHES

| Frame | E | 2F1 | 2F2 | H | BA | A | B | C | D | G | J | P | O | AB | T | S | ES | R | N-W | U | AA | XB | XC | XD | XE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 213T | 4.25 | — | 5.50 | 0.41 | 3.50 | 10.5 | 7.5 | 18.89 | 5.25 | 0.709 | 2.36 | 10.40 | 10.53 | 8.63 | 1.73 | 0.312 | 2.41 | 1.201 | 3.38 | 1.375 | 1.00 | 2.95 | 5.00 | 4.57 | 6.77 |
| 215T | 4.25 | 5.50 | 7.00 | 0.41 | 3.50 | 10.5 | 9.0 | 20.49 | 5.25 | 0.709 | 2.36 | 10.40 | 10.53 | 8.63 | 1.73 | 0.312 | 2.41 | 1.201 | 3.38 | 1.375 | 1.00 | 2.95 | 5.00 | 4.57 | 7.48 |
| 254T | 5.00 | — | 8.25 | 0.53 | 4.25 | 12.5 | 10.8 | 23.29 | 6.25 | 0.787 | 2.76 | 12.60 | 12.89 | 11.20 | 2.05 | 0.375 | 2.91 | 1.416 | 4.00 | 1.625 | 1.50 | 3.00 | 7.20 | 6.30 | 7.76 |
| 256T | 5.00 | 8.25 | 10.00 | 0.53 | 4.25 | 12.5 | 12.5 | 25.06 | 6.25 | 0.787 | 2.76 | 12.60 | 12.89 | 11.20 | 2.05 | 0.375 | 2.91 | 1.416 | 4.00 | 1.625 | 1.50 | 3.00 | 7.20 | 6.30 | 8.66 |
| 284T | 5.50 | — | 9.50 | 0.53 | 4.75 | 14.0 | 12.5 | 26.64 | 7.00 | 0.866 | 2.76 | 14.17 | 14.28 | 12.00 | 2.05 | 0.500 | 3.28 | 1.591 | 4.62 | 1.875 | 1.50 | 3.58 | 7.20 | 6.30 | 9.13 |
| 286T | 5.50 | 9.50 | 11.00 | 0.53 | 4.75 | 14.0 | 14.0 | 28.18 | 7.00 | 0.866 | 2.76 | 14.17 | 14.28 | 12.00 | 2.05 | 0.500 | 3.28 | 1.591 | 4.62 | 1.875 | 1.50 | 3.58 | 7.20 | 6.30 | 9.61 |
| 324T | 6.25 | — | 10.50 | 0.66 | 5.25 | 16.0 | 14.0 | 29.95 | 8.00 | 0.984 | 2.76 | 15.75 | 15.91 | 13.40 | 2.44 | 0.500 | 3.91 | 1.845 | 5.25 | 2.125 | 2.00 | 2.64 | 10.55 | 8.98 | 9.68 |
| 326T | 6.25 | 10.50 | 12.00 | 0.66 | 5.25 | 16.0 | 15.5 | 31.24 | 8.00 | 0.984 | 2.76 | 15.75 | 15.91 | 13.40 | 2.44 | 0.500 | 3.91 | 1.845 | 5.25 | 2.125 | 2.00 | 2.64 | 10.55 | 8.98 | 10.47 |
| 365T | 7.00 | 11.25 | 12.25 | 0.66 | 5.88 | 18.0 | 16.2 | 34.11 | 9.00 | 1.102 | 2.95 | 17.70 | 18.13 | 15.70 | 2.44 | 0.625 | 4.28 | 2.021 | 5.88 | 2.375 | 3.00 | 3.74 | 10.55 | 8.98 | 11.30 |
| 404T | 8.00 | — | 12.25 | 0.81 | 6.62 | 20.0 | 16.2 | 36.81 | 10.00 | 1.180 | 3.15 | 21.42 | 21.02 | 18.31 | 2.83 | 0.750 | 5.65 | 2.45 | 7.25 | 2.875 | 3.00 | 4.57 | 11.73 | 9.76 | 11.69 |
| 405T | 8.00 | 12.25 | 13.75 | 0.81 | 6.62 | 20.0 | 17.8 | 38.35 | 10.00 | 1.180 | 3.15 | 21.42 | 21.02 | 18.31 | 2.83 | 0.750 | 5.65 | 2.45 | 7.25 | 2.875 | 3.00 | 4.57 | 11.73 | 9.76 | 12.48 |
| 444T | 9.00 | — | 14.50 | 0.81 | 7.50 | 22.0 | 18.5 | 42.52 | 11.00 | 1.380 | 3.35 | 23.43 | 22.97 | 19.41 | 3.46 | 0.875 | 6.91 | 2.88 | 8.50 | 3.375 | 2 x 3 | 5.67 | 11.73 | 11.34 | 13.39 |
| 445T | 9.00 | 14.50 | 16.50 | 0.81 | 7.50 | 22.0 | 20.5 | 44.50 | 11.00 | 1.380 | 3.35 | 23.43 | 22.97 | 19.41 | 3.46 | 0.875 | 6.91 | 2.88 | 8.50 | 3.375 | 2 x 3 | 5.67 | 11.73 | 11.34 | 14.37 |

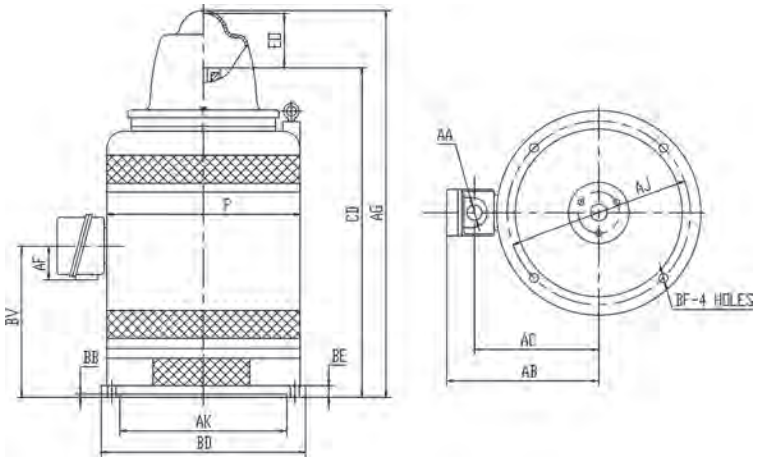


Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

# WORLDWIDE VERTICAL HOLLOW SHAFT MOTORS

## *WPI Enclosure ▪ Vertical P Base*

## *Three-Phase ▪ 230/460, 230, 460 and 575 Volt*




ALL DIMENSIONS IN INCHES

| Frame | P | AA | AB | AC | AF | AG | BE | BV | CD | EO | AJ | AK | BB | BD | BF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 284TPA | 15.59 | 3.00 | 13.15 | 10.29 | 5.02 | 31.30 | 0.945 | 12.44 | 26.56 | 4.40 | 9.125 | 8.25 | 0.19 | 12.0 | 0.44 |
| 284TPH | 15.59 | 3.00 | 13.15 | 10.29 | 5.02 | 31.30 | 0.945 | 12.44 | 26.56 | 4.40 | 14.75 | 13.50 | 0.25 | 16.5 | 0.69 |
| 286TPA | 15.59 | 3.00 | 13.15 | 10.29 | 5.02 | 31.30 | 0.945 | 12.44 | 26.56 | 4.40 | 9.125 | 8.25 | 0.19 | 12.0 | 0.44 |
| 286TPH | 15.59 | 3.00 | 13.15 | 10.29 | 5.02 | 31.30 | 0.945 | 12.44 | 26.56 | 4.40 | 14.75 | 13.50 | 0.25 | 16.5 | 0.69 |
| 324TP | 17.32 | 3.00 | 14.57 | 11.10 | 5.67 | 33.06 | 0.690 | 11.06 | 28.22 | 4.69 | 14.75 | 13.50 | 0.25 | 16.5 | 0.69 |
| 324TPH | 17.32 | 3.00 | 14.57 | 11.10 | 5.67 | 33.06 | 0.690 | 11.06 | 28.22 | 4.69 | 9.125 | 8.25 | 0.19 | 12.0 | 0.44 |
| 326TP | 17.32 | 3.00 | 14.57 | 11.10 | 5.67 | 33.06 | 0.690 | 11.06 | 28.22 | 4.69 | 14.75 | 13.50 | 0.25 | 16.5 | 0.69 |
| 326TPH | 17.32 | 3.00 | 14.57 | 11.10 | 5.67 | 33.06 | 0.690 | 11.06 | 28.22 | 4.69 | 9.125 | 8.25 | 0.19 | 12.0 | 0.44 |
| 364TP | 17.32 | 3.00 | 14.57 | 11.10 | 5.67 | 33.85 | 0.690 | 11.06 | 29.00 | 4.69 | 14.75 | 13.50 | 0.25 | 16.5 | 0.69 |
| 365TP | 21.26 | 3.00 | 19.06 | 15.59 | 5.91 | 36.00 | 0.690 | 14.00 | 31.16 | 4.69 | 14.75 | 13.50 | 0.25 | 16.5 | 0.69 |
| 404TP | 21.26 | 3.00 | 19.06 | 15.59 | 5.91 | 42.69 | 0.750 | 18.13 | 36.94 | 5.50 | 14.75 | 13.50 | 0.25 | 16.5 | 0.69 |
| 404TPA | 21.26 | 3.00 | 19.06 | 15.59 | 5.91 | 42.69 | 0.750 | 18.13 | 36.94 | 5.50 | 14.75 | 13.50 | 0.25 | 20.0 | 0.69 |
| 405TP | 21.26 | 3.00 | 19.06 | 15.59 | 5.91 | 42.69 | 0.750 | 18.13 | 36.94 | 5.50 | 14.75 | 13.50 | 0.25 | 16.5 | 0.69 |
| 405TPA | 21.26 | 3.00 | 19.06 | 15.59 | 5.91 | 42.69 | 0.750 | 18.13 | 36.94 | 5.50 | 14.75 | 13.50 | 0.25 | 20.0 | 0.69 |
| 444TP | 23.62 | 3.00 | 24.65 | 19.13 | 6.24 | 50.06 | 0.750 | 21.19 | 44.78 | 5.13 | 14.75 | 13.50 | 0.25 | 16.5 | 0.69 |
| 444TPA | 23.62 | 3.00 | 24.65 | 19.13 | 6.24 | 50.06 | 0.750 | 21.19 | 44.78 | 5.13 | 14.75 | 13.50 | 0.25 | 20.0 | 0.69 |
| 445TP | 23.62 | 3.00 | 24.65 | 19.13 | 6.24 | 50.06 | 0.750 | 21.19 | 44.78 | 5.13 | 14.75 | 13.50 | 0.25 | 16.5 | 0.69 |
| 445TPA | 23.62 | 3.00 | 24.65 | 19.13 | 6.24 | 50.06 | 0.750 | 21.19 | 44.78 | 5.13 | 14.75 | 13.50 | 0.25 | 20.0 | 0.69 |

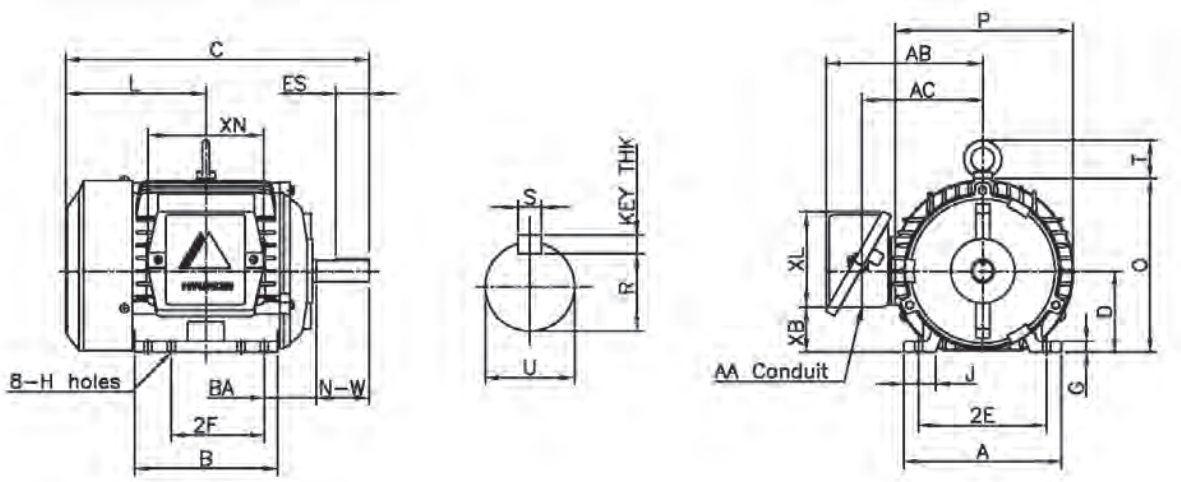


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# HYUNDAI CROWN TRITON™ SERIES MOTORS
# PREMIUM EFFICIENCY

*TEFC Enclosure ▪ Rigid Base*

*Three-Phase ▪ 208-230/460, 460 and 575 Volt*




ALL DIMENSIONS IN INCHES

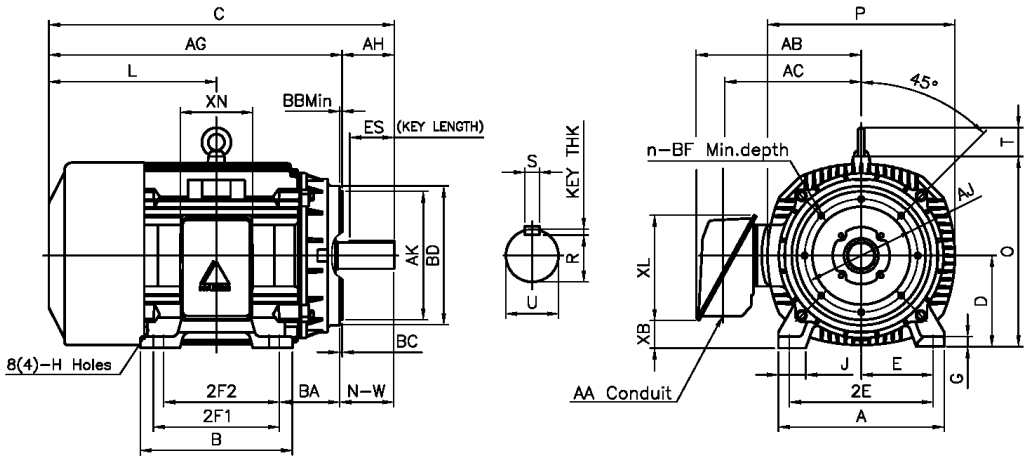
| Frame | E | 2F | H | BA | A | B | C | D | G | J | P | O | T | L | S | ES | R | N-W | U | AA | AB | AC | XB | XL | XN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 143T | 2.75 | 4.00 | 0.34 | 2.25 | 6.78 | 6.15 | 13.05 | 3.50 | 0.47 | 1.36 | 7.64 | 7.46 | 1.63 | 6.05 | 0.188 | 1.41 | 0.771 | 2.25 | 0.875 | 0.75 | 6.73 | 5.21 | 1.95 | 4.10 | 4.96 |
| 145T | 2.75 | 5.00 | 0.34 | 2.25 | 6.78 | 6.15 | 13.05 | 3.50 | 0.47 | 1.36 | 7.64 | 7.46 | 1.63 | 6.05 | 0.188 | 1.41 | 0.771 | 2.25 | 0.875 | 0.75 | 6.73 | 5.21 | 1.95 | 4.10 | 4.96 |
| 182T | 3.75 | 4.50 | 0.41 | 2.75 | 8.66 | 5.52 | 15.52 | 4.50 | 0.62 | 1.74 | 9.64 | 9.32 | 1.63 | 7.78 | 0.250 | 1.78 | 0.986 | 2.75 | 1.125 | 0.75 | 7.47 | 6.23 | 3.03 | 4.35 | 5.35 |
| 184T | 3.75 | 5.50 | 0.41 | 2.75 | 8.66 | 6.54 | 16.55 | 4.50 | 0.62 | 1.74 | 9.64 | 9.32 | 1.63 | 8.29 | 0.250 | 1.78 | 0.986 | 2.75 | 1.125 | 0.75 | 7.47 | 6.23 | 3.03 | 4.35 | 5.35 |
| 213T | 4.25 | 5.50 | 0.41 | 3.50 | 9.85 | 6.77 | 18.86 | 5.25 | 0.60 | 1.52 | 11.26 | 11.02 | 1.63 | 9.22 | 0.312 | 2.41 | 1.201 | 3.38 | 1.375 | 1.00 | 8.23 | 7.34 | 3.03 | 4.35 | 5.35 |
| 215T | 4.25 | 7.00 | 0.41 | 3.50 | 9.84 | 8.66 | 20.36 | 5.25 | 0.60 | 1.52 | 11.26 | 11.02 | 1.63 | 9.97 | 0.312 | 2.41 | 1.201 | 3.38 | 1.375 | 1.00 | 8.23 | 7.34 | 3.03 | 4.35 | 5.35 |
| 254T | 5.00 | 8.25 | 0.53 | 4.25 | 11.30 | 9.56 | 23.13 | 6.25 | 0.72 | 1.93 | 12.76 | 12.75 | 2.01 | 10.75 | 0.375 | 2.91 | 1.416 | 4.00 | 1.625 | 1.25 | 11.88 | 9.08 | 1.66 | 7.56 | 5.35 |
| 256T | 5.00 | 10.00 | 0.53 | 4.25 | 11.30 | 11.30 | 24.86 | 6.25 | 0.72 | 1.93 | 12.76 | 12.75 | 2.01 | 11.61 | 0.375 | 2.91 | 1.416 | 4.00 | 1.625 | 1.25 | 11.88 | 9.08 | 1.66 | 7.56 | 3.35 |
| 284T | 5.50 | 9.50 | 0.53 | 4.75 | 12.60 | 11.18 | 26.21 | 7.00 | 0.78 | 2.20 | 14.19 | 14.28 | 2.01 | 12.09 | 0.500 | 3.28 | 1.591 | 4.62 | 1.875 | 1.50 | 12.43 | 9.64 | 2.31 | 7.56 | 5.35 |
| 284TS | 5.50 | 9.50 | 0.53 | 4.75 | 12.60 | 11.18 | 24.84 | 7.00 | 0.78 | 2.20 | 14.19 | 14.28 | 2.01 | 12.09 | 0.375 | 1.91 | 1.416 | 3.25 | 1.625 | 1.50 | 12.43 | 9.64 | 2.31 | 7.56 | 3.35 |
| 286T | 5.50 | 11.00 | 0.53 | 4.75 | 12.60 | 12.68 | 27.71 | 7.00 | 0.78 | 2.20 | 14.19 | 14.28 | 2.01 | 12.84 | 0.500 | 3.28 | 1.591 | 4.62 | 1.875 | 1.50 | 12.43 | 9.64 | 2.31 | 7.56 | 5.35 |
| 286TS | 5.50 | 11.00 | 0.53 | 4.75 | 12.60 | 12.68 | 26.34 | 7.00 | 0.78 | 2.20 | 14.19 | 14.28 | 2.01 | 12.84 | 0.375 | 1.91 | 1.416 | 3.25 | 1.625 | 1.50 | 12.43 | 9.64 | 2.31 | 7.56 | 5.35 |
| 324T | 6.25 | 10.50 | 0.66 | 5.25 | 14.33 | 13.78 | 31.07 | 8.00 | 1.11 | 2.36 | 15.84 | 16.19 | 2.41 | 14.57 | 0.500 | 3.91 | 1.845 | 5.25 | 2.125 | 2.00 | 15.20 | 11.21 | 1.57 | 10.16 | 7.01 |
| 324TS | 6.25 | 10.50 | 0.66 | 5.25 | 14.33 | 13.78 | 29.57 | 8.00 | 1.11 | 2.36 | 15.84 | 16.19 | 2.41 | 14.57 | 0.500 | 2.03 | 1.591 | 3.75 | 1.875 | 2.00 | 15.20 | 11.21 | 1.57 | 10.16 | 7.01 |
| 326T | 6.25 | 12.00 | 0.66 | 5.25 | 14.33 | 13.78 | 31.07 | 8.00 | 1.11 | 2.36 | 15.84 | 16.19 | 2.41 | 14.57 | 0.500 | 3.91 | 1.845 | 5.25 | 2.125 | 2.00 | 15.20 | 11.21 | 1.57 | 10.16 | 7.01 |
| 326TS | 6.25 | 12.00 | 0.66 | 5.25 | 14.33 | 13.78 | 29.57 | 8.00 | 1.11 | 2.36 | 15.84 | 16.19 | 2.41 | 14.57 | 0.500 | 2.03 | 1.591 | 3.75 | 1.875 | 2.00 | 15.20 | 11.21 | 1.57 | 10.16 | 7.01 |
| 364T | 7.00 | 11.25 | 0.66 | 5.88 | 16.14 | 14.92 | 34.01 | 9.00 | 0.98 | 2.72 | 18.23 | 18.50 | 2.80 | 16.13 | 0.625 | 4.28 | 2.021 | 5.88 | 2.375 | 3.00 | 17.13 | 13.82 | 2.70 | 10.24 | 7.09 |
| 364TS | 7.00 | 11.25 | 0.66 | 5.88 | 16.14 | 14.92 | 31.88 | 9.00 | 0.98 | 2.72 | 18.23 | 18.50 | 2.80 | 16.13 | 0.500 | 2.03 | 1.591 | 3.75 | 1.875 | 2.50 | 17.13 | 13.82 | 2.70 | 10.24 | 7.09 |
| 365T | 7.00 | 12.25 | 0.66 | 5.88 | 16.14 | 14.92 | 34.01 | 9.00 | 0.98 | 2.72 | 18.23 | 18.50 | 2.80 | 16.13 | 0.625 | 4.28 | 2.021 | 5.88 | 2.375 | 3.00 | 17.13 | 13.82 | 2.70 | 10.24 | 7.09 |
| 365TS | 7.00 | 12.25 | 0.66 | 5.88 | 16.14 | 14.92 | 31.88 | 9.00 | 0.98 | 2.72 | 18.23 | 18.50 | 2.80 | 16.13 | 0.500 | 2.03 | 1.591 | 3.75 | 1.875 | 3.00 | 17.13 | 13.82 | 2.70 | 10.24 | 7.09 |
| 404T | 8.00 | 12.25 | 0.81 | 6.62 | 18.43 | 16.46 | 39.42 | 10.00 | 1.18 | 3.03 | 20.16 | 20.79 | 3.55 | 18.68 | 0.750 | 5.65 | 2.450 | 7.25 | 2.875 | 3.00 | 20.28 | 14.85 | 2.83 | 11.65 | 10.63 |
| 405T | 8.00 | 13.75 | 0.81 | 6.62 | 18.43 | 16.46 | 39.42 | 10.00 | 1.18 | 3.03 | 20.16 | 20.79 | 3.55 | 18.68 | 0.750 | 5.65 | 2.450 | 7.25 | 2.875 | 3.00 | 20.28 | 14.85 | 2.83 | 11.65 | 10.63 |
| 405TS | 8.00 | 13.75 | 0.81 | 6.62 | 18.43 | 16.46 | 36.42 | 10.00 | 1.18 | 3.03 | 20.16 | 20.79 | 3.55 | 18.68 | 0.500 | 2.78 | 1.845 | 4.25 | 2.125 | 3.00 | 20.28 | 14.85 | 2.83 | 11.65 | 10.63 |
| 444T | 9.00 | 14.50 | 0.81 | 7.50 | 20.51 | 19.21 | 45.21 | 11.00 | 1.42 | 3.07 | 22.40 | 23.19 | 4.33 | 20.96 | 0.875 | 6.91 | 2.880 | 8.50 | 3.375 | 3.00 | 21.26 | 18.03 | 3.83 | 11.65 | 10.63 |
| 444TS | 9.00 | 14.50 | 0.81 | 7.50 | 20.51 | 19.21 | 41.46 | 11.00 | 1.42 | 3.07 | 22.40 | 23.19 | 4.33 | 20.96 | 0.625 | 3.03 | 2.021 | 4.75 | 2.375 | 3.00 | 21.26 | 18.03 | 3.83 | 11.65 | 10.63 |
| 445T | 9.00 | 16.50 | 0.81 | 7.50 | 20.51 | 19.21 | 45.21 | 11.00 | 1.42 | 3.07 | 22.40 | 23.19 | 4.33 | 20.96 | 0.875 | 6.91 | 2.880 | 8.50 | 3.375 | 3.00 | 21.26 | 18.03 | 3.83 | 11.65 | 10.63 |
| 445TS | 9.00 | 16.50 | 0.81 | 7.50 | 20.51 | 19.21 | 41.46 | 11.00 | 1.42 | 3.07 | 22.40 | 23.19 | 4.33 | 20.96 | 0.625 | 3.03 | 2.021 | 4.75 | 2.375 | 3.00 | 21.26 | 18.03 | 3.83 | 11.65 | 10.63 |
| 447T | 9.00 | 20.00 | 0.81 | 7.50 | 20.51 | 22.72 | 48.71 | 11.00 | 1.42 | 3.07 | 22.40 | 23.19 | 4.33 | 22.71 | 0.875 | 6.91 | 2.880 | 8.50 | 3.375 | 3.00 | 21.26 | 18.03 | 3.83 | 11.65 | 10.63 |
| 447TS | 9.00 | 20.00 | 0.81 | 7.50 | 20.51 | 22.72 | 44.96 | 11.00 | 1.42 | 3.07 | 22.40 | 23.19 | 4.33 | 22.71 | 0.625 | 3.03 | 2.021 | 4.75 | 2.375 | 3.00 | 21.26 | 18.03 | 3.83 | 11.654 | 10.63 |
| 449T | 9.00 | 25.00 | 0.81 | 7.50 | 20.51 | 27.72 | 53.83 | 11.00 | 1.42 | 3.07 | 22.40 | 23.19 | 4.33 | 25.33 | 0.875 | 6.91 | 2.880 | 8.50 | 3.375 | 3.00 | 21.26 | 18.03 | 3.83 | 11.65 | 10.63 |
| 449TS | 9.00 | 25.00 | 0.81 | 7.50 | 20.51 | 27.72 | 50.08 | 11.00 | 1.42 | 3.07 | 22.40 | 23.19 | 4.33 | 25.33 | 0.625 | 3.03 | 2.021 | 4.75 | 2.375 | 3.00 | 21.26 | 18.03 | 3.83 | 11.65 | 10.63 |

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# HYUNDAI CROWN TRITON™ SERIES MOTORS
# PREMIUM EFFICIENCY

*TEFC Enclosure ▪ C-Face ▪ Rigid Base*

*Three-Phase ▪ 208-230/460 and 460 Volt*




ALL DIMENSIONS IN INCHES

| Frame | E | 2F1 | 2F2 | H | BA | A | B | C | D | G | J | P | O | T | L | S | ES | R | U |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 143TC | 2.75 | 4.00 | 5.00 | 0.34 | 2.75 | 6.78 | 6.15 | 13.05 | 3.50 | 0.45 | 1.36 | 7.64 | 7.46 | 1.63 | 6.05 | 0.188 | 1.41 | 0.771 | 0.875 |
| 145TC | 2.75 | 5.00 | 4.00 | 0.34 | 2.75 | 6.78 | 6.15 | 13.05 | 3.50 | 0.47 | 1.36 | 7.64 | 7.46 | 1.63 | 6.05 | 0.188 | 1.41 | 0.771 | 0.875 |
| 182TC | 3.75 | 4.50 | — | 0.41 | 2.75 | 8.66 | 6.54 | 15.52 | 4.50 | 0.62 | 1.74 | 9.64 | 9.32 | 1.63 | 7.78 | 0.250 | 1.78 | 0.986 | 1.125 |
| 184TC | 3.75 | 5.50 | — | 0.41 | 2.75 | 8.66 | 6.54 | 16.55 | 4.50 | 0.62 | 1.74 | 9.64 | 9.32 | 1.63 | 8.29 | 0.250 | 1.78 | 0.986 | 1.125 |
| 213TC | 4.25 | 5.50 | — | 0.41 | 3.50 | 9.85 | 6.77 | 18.86 | 5.25 | 0.60 | 1.52 | 11.26 | 11.02 | 1.63 | 9.22 | 0.312 | 2.41 | 1.201 | 1.375 |
| 215TC | 4.25 | 7.00 | — | 0.41 | 3.50 | 9.84 | 8.66 | 20.36 | 5.25 | 0.60 | 1.52 | 11.26 | 11.02 | 1.63 | 9.97 | 0.312 | 2.41 | 1.201 | 1.375 |
| 254TC | 5.00 | 8.25 | — | 0.53 | 4.25 | 11.30 | 9.56 | 23.13 | 6.25 | 0.72 | 1.93 | 12.76 | 12.75 | 2.01 | 10.75 | 0.375 | 2.91 | 1.416 | 1.625 |
| 256TC | 5.00 | 10.00 | — | 0.53 | 4.25 | 11.30 | 11.30 | 24.86 | 6.25 | 0.72 | 1.93 | 12.76 | 12.75 | 2.01 | 11.61 | 0.375 | 2.91 | 1.416 | 1.625 |
| 284TC | 5.50 | 9.50 | — | 053 | 4.75 | 12.60 | 11.18 | 26.21 | 7.00 | 0.78 | 2.20 | 14.19 | 14.28 | 2.01 | 12.09 | 0.500 | 3.28 | 1.591 | 1.875 |
| 284TSC | 5.50 | 9.50 | — | 0.53 | 4.75 | 12.60 | 11.18 | 24.84 | 7.00 | 0.78 | 2.20 | 14.19 | 14.28 | 2.01 | 12.09 | 0.375 | 1.91 | 1.416 | 1.625 |
| 286TC | 5.50 | 11.00 | — | 0.53 | 4.75 | 12.60 | 12.68 | 27.71 | 7.00 | 0.78 | 2.20 | 14.19 | 14.28 | 2.01 | 12.84 | 0.500 | 3.28 | 1.591 | 1.875 |
| 286TSC | 5.50 | 11.00 | — | 0.53 | 4.75 | 12.60 | 12.68 | 26.34 | 7.00 | 0.78 | 2.20 | 14.19 | 14.28 | 2.01 | 12.84 | 0.375 | 1.91 | 1.416 | 1.625 |
| 324TC | 6.25 | 10.50 | 12.00 | 0.66 | 5.25 | 14.33 | 13.78 | 31.07 | 8.00 | 1.11 | 2.36 | 15.84 | 16.19 | 2.41 | 14.57 | 0.500 | 3.91 | 1.845 | 2.125 |
| 326TC | 6.25 | 12.00 | 10.50 | 0.66 | 5.25 | 14.33 | 13.78 | 31.07 | 8.00 | 1.11 | 2.36 | 15.84 | 16.19 | 2.41 | 14.57 | 0.500 | 3.91 | 1.845 | 2.125 |
| 364TC | 7.00 | 11.25 | 12.25 | 0.66 | 5.88 | 16.14 | 14.92 | 34.01 | 9.00 | 0.98 | 2.72 | 17.75 | 18.50 | 2.80 | 16.13 | 0.625 | 4.28 | 2.021 | 2.375 |
| 365TC | 7.00 | 12.25 | 11.25 | 0.66 | 5.88 | 16.14 | 14.92 | 34.01 | 9.00 | 0.98 | 2.72 | 17.75 | 18.50 | 2.80 | 16.13 | 0.625 | 4.28 | 2.021 | 2.375 |
| 365TSC | 7.00 | 12.25 | 11.25 | 0.66 | 5.88 | 16.14 | 14.92 | 31.88 | 9.00 | 0.98 | 2.72 | 17.75 | 18.50 | 2.80 | 16.13 | 0.500 | 2.03 | 1.591 | 1.875 |
| 404TC | 8.00 | 12.25 | 13.75 | 0.81 | 6.62 | 18.43 | 16.46 | 39.42 | 10.00 | 1.18 | 3.03 | 19.69 | 20.79 | 3.55 | 18.68 | 0.750 | 5.65 | 2.450 | 2.875 |
| 405TC | 8.00 | 13.75 | 12.25 | 0.81 | 6.62 | 18.43 | 16.46 | 39.42 | 10.00 | 1.18 | 3.03 | 19.69 | 20.79 | 3.55 | 18.68 | 0.750 | 5.65 | 2.450 | 2.875 |
| 405TSC | 8.00 | 13.75 | 12.25 | 0.81 | 6.62 | 18.43 | 16.46 | 36.42 | 10.00 | 1.18 | 3.03 | 19.69 | 20.79 | 3.55 | 18.68 | 0.500 | 2.78 | 1.845 | 2.125 |
| 444TC | 9.00 | 14.50 | 16.50 | 0.81 | 7.50 | 20.51 | 19.21 | 45.21 | 11.00 | 1.42 | 3.07 | 22.44 | 23.19 | 4.33 | 20.96 | 0.875 | 6.91 | 2.880 | 3.375 |
| 444TSC | 9.00 | 14.50 | 16.50 | 0.81 | 7.50 | 20.51 | 19.21 | 41.46 | 11.00 | 1.42 | 3.07 | 22.44 | 23.19 | 4.33 | 20.96 | 0.625 | 3.03 | 2.021 | 2.375 |
| 445TC | 9.00 | 16.50 | 14.50 | 0.81 | 7.50 | 20.51 | 19.21 | 45.21 | 11.00 | 1.42 | 3.07 | 22.44 | 23.19 | 4.33 | 20.96 | 0.875 | 6.91 | 2.880 | 3.375 |
| 445TSC | 9.00 | 16.50 | 14.50 | 0.81 | 7.50 | 20.51 | 19.21 | 41.46 | 11.00 | 1.42 | 3.07 | 22.44 | 23.19 | 4.33 | 20.96 | 0.625 | 3.03 | 2.021 | 2.375 |
| 447TC | 9.00 | 20.00 | — | 0.81 | 7.50 | 20.51 | 22.72 | 48.71 | 11.00 | 1.42 | 3.07 | 22.44 | 23.19 | 4.33 | 22.71 | 0.875 | 6.91 | 2.880 | 3.375 |
| 447TSC | 9.00 | 20.00 | — | 0.81 | 7.50 | 20.51 | 22.72 | 44.96 | 11.00 | 1.42 | 3.07 | 22.44 | 23.19 | 4.33 | 22.71 | 0.625 | 3.03 | 2.021 | 2.375 |
| 449TC | 9.00 | 25.00 | 20.00 | 0.81 | 7.50 | 20.51 | 27.72 | 53.83 | 11.00 | 1.42 | 3.07 | 22.44 | 23.19 | 4.33 | 25.33 | 0.875 | 6.91 | 2.880 | 3.375 |



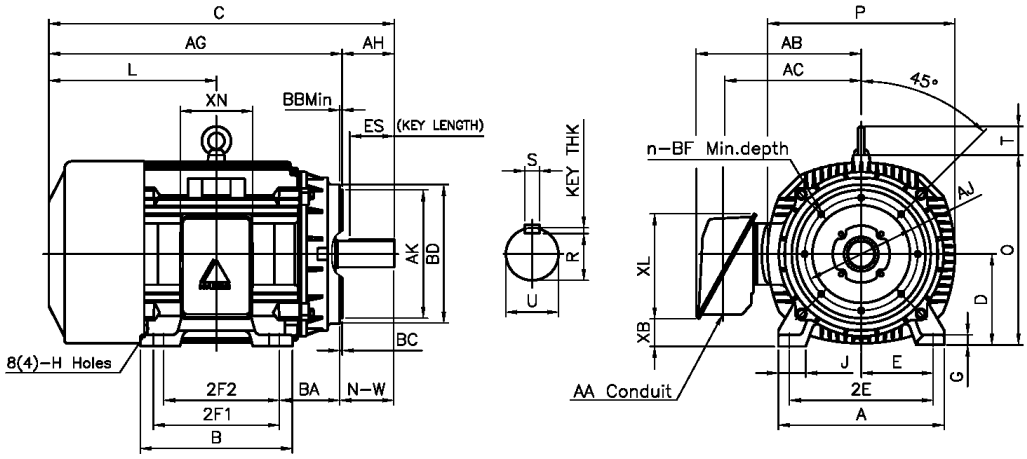
Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

Continued On Next Page

# HYUNDAI CROWN TRITON™ SERIES MOTORS
# PREMIUM EFFICIENCY

*TEFC Enclosure ▪ C-Face ▪ Rigid Base*

*Three-Phase ▪ 208-230/460 and 460 Volt*




ALL DIMENSIONS IN INCHES

| Frame | AA | AB | AC | XB | XL | XN | AJ | AK | BD | BB | BC | AH | BF | n |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 143TC | 0.75 | 6.73 | 5.21 | 1.95 | 4.10 | 4.96 | 5.875 | 4.50 | 6.50 | 0.16 | 0.12 | 2.12 | ⅜ - 16 | 4 |
| 145TC | 0.75 | 6.73 | 5.21 | 1.95 | 4.10 | 4.96 | 5.875 | 4.50 | 6.50 | 0.16 | 0.12 | 2.12 | ⅜ - 16 | 4 |
| 182TC | 0.75 | 7.47 | 6.23 | 3.03 | 4.35 | 5.35 | 7.250 | 8.50 | 8.70 | 0.25 | 0.12 | 2.62 | ½ - 13 | 4 |
| 184TC | 0.75 | 7.47 | 6.23 | 2.29 | 4.35 | 5.35 | 7.250 | 8.50 | 8.70 | 0.25 | 0.12 | 2.62 | ½ - 13 | 4 |
| 213TC | 1.00 | 8.23 | 7.34 | 3.03 | 4.35 | 5.35 | 7.250 | 8.50 | 9.00 | 0.25 | 0.25 | 3.12 | ½ - 13 | 4 |
| 215TC | 1.00 | 8.23 | 7.34 | 3.03 | 4.35 | 5.35 | 7.250 | 8.50 | 9.00 | 0.25 | 0.25 | 3.12 | ½ - 13 | 4 |
| 254TC | 1.25 | 11.88 | 9.08 | 1.66 | 7.56 | 5.35 | 7.250 | 8.50 | 9.68 | 0.25 | 0.25 | 3.75 | ½ - 13 | 4 |
| 256TC | 1.25 | 11.88 | 9.08 | 1.66 | 7.56 | 3.35 | 7.250 | 8.50 | 9.68 | 0.25 | 0.25 | 3.75 | ½ - 13 | 4 |
| 284TC | 1.50 | 12.43 | 9.64 | 2.31 | 7.56 | 5.35 | 9.000 | 10.50 | 10.90 | 0.25 | 0.25 | 4.38 | ½ - 13 | 4 |
| 284TSC | 1.50 | 12.43 | 9.64 | 2.31 | 7.56 | 3.35 | 9.000 | 10.50 | 10.90 | 0.25 | 0.25 | 3.00 | ½ - 13 | 4 |
| 286TC | 1.50 | 12.43 | 9.64 | 2.31 | 7.56 | 5.35 | 9.000 | 10.50 | 10.90 | 0.25 | 0.25 | 4.38 | ½ - 13 | 4 |
| 286TSC | 1.50 | 12.43 | 9.64 | 2.31 | 7.56 | 5.35 | 9.000 | 10.50 | 10.90 | 0.25 | 0.25 | 3.00 | ½ - 13 | 4 |
| 324TC | 2.00 | 15.20 | 11.21 | 1.57 | 10.16 | 7.01 | 11.000 | 12.50 | 13.27 | 0.25 | 0.25 | 5.00 | ⅝ - 11 | 4 |
| 326TC | 2.00 | 15.20 | 11.21 | 1.57 | 10.16 | 7.01 | 11.000 | 12.50 | 13.27 | 0.25 | 0.25 | 5.00 | ⅝ - 11 | 4 |
| 364TC | 3.00 | 17.13 | 13.82 | 2.70 | 10.24 | 7.09 | 11.000 | 12.50 | 13.38 | 0.25 | 0.25 | 5.62 | ⅝ - 11 | 8 |
| 365TC | 3.00 | 17.13 | 13.82 | 2.70 | 10.24 | 7.09 | 11.000 | 12.50 | 13.38 | 0.25 | 0.25 | 5.62 | ⅝ - 11 | 8 |
| 365TSC | 3.00 | 17.13 | 13.82 | 2.70 | 10.24 | 7.09 | 11.000 | 12.50 | 13.78 | 0.25 | 0.25 | 3.50 | ⅝ - 11 | 8 |
| 404TC | 3.00 | 20.28 | 14.85 | 2.83 | 11.65 | 10.63 | 11.000 | 12.50 | 13.78 | 0.25 | 0.25 | 7.00 | ⅝ - 11 | 8 |
| 405TC | 3.00 | 20.28 | 14.85 | 2.83 | 11.65 | 10.63 | 11.000 | 12.50 | 13.78 | 0.25 | 0.25 | 7.00 | ⅝ - 11 | 8 |
| 405TSC | 3.00 | 20.28 | 14.85 | 2.83 | 11.65 | 10.63 | 11.000 | 12.50 | 13.78 | 0.25 | 0.25 | 4.00 | ⅝ - 11 | 8 |
| 444TC | 3.00 | 21.26 | 18.03 | 3.83 | 11.65 | 10.63 | 14.000 | 16.00 | 16.93 | 0.25 | 0.25 | 8.25 | ⅝ - 11 | 8 |
| 444TSC | 3.00 | 21.26 | 18.03 | 3.83 | 11.65 | 10.63 | 14.000 | 16.00 | 16.93 | 0.25 | 0.25 | 4.50 | ⅝ - 11 | 8 |
| 445TC | 3.00 | 21.26 | 18.03 | 3.83 | 11.65 | 10.63 | 14.000 | 16.00 | 16.93 | 0.25 | 0.25 | 8.25 | ⅝ - 11 | 8 |
| 445TSC | 3.00 | 21.26 | 18.03 | 3.83 | 11.65 | 10.63 | 14.000 | 16.00 | 16.93 | 0.25 | 0.25 | 4.50 | ⅝ - 11 | 8 |
| 447TC | 3.00 | 21.26 | 18.03 | 3.83 | 11.65 | 10.63 | 14.000 | 16.00 | 16.93 | 0.25 | 0.25 | 8.25 | ⅝ - 11 | 8 |
| 447TSC | 3.00 | 21.26 | 18.03 | 3.83 | 11.654 | 10.63 | 14.000 | 16.00 | 16.93 | 0.25 | 0.25 | 4.50 | ⅝ - 11 | 8 |
| 449TC | 3.00 | 21.26 | 18.03 | 3.83 | 11.65 | 10.63 | 14.000 | 16.00 | 16.93 | 0.25 | 0.25 | 8.25 | ⅝ - 11 | 8 |

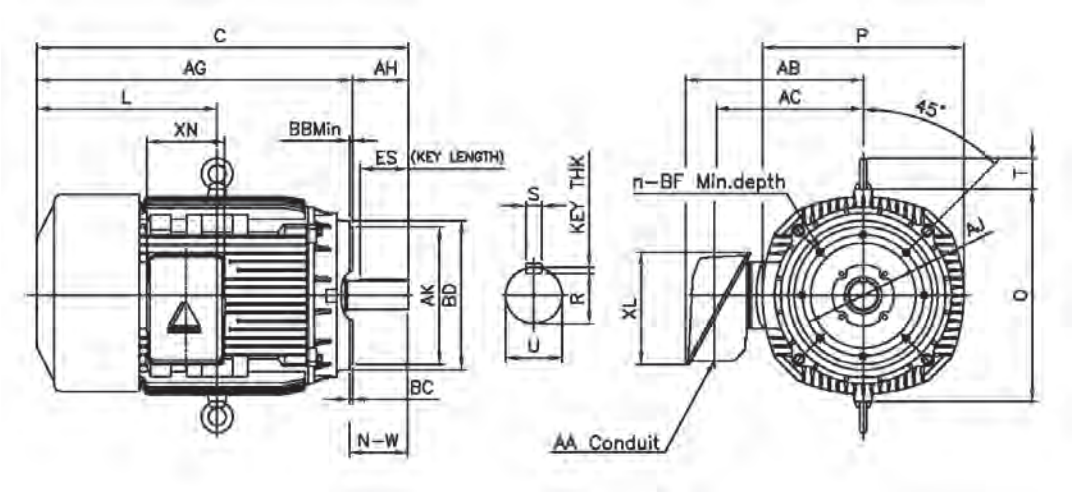


Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

# HYUNDAI CROWN TRITON™ SERIES MOTORS
# PREMIUM EFFICIENCY

*TEFC Enclosure ▪ C-Face ▪ Round Body*

*Three-Phase ▪ 208-230/460 Volt*




ALL DIMENSIONS IN INCHES

| Frame | C | P | L | T | S | ES | R | N-W | U | AA | AB | AC | XL | XN | AJ | AK | BD | BB | BC | AH | BF | n |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 143TCRD | 13.05 | 7.64 | 6.05 | 1.63 | 0.188 | 1.41 | 0.771 | 2.25 | 0.875 | 0.75 | 6.73 | 5.21 | 4.10 | 4.96 | 5.875 | 4.50 | 6.50 | 0.16 | 0.12 | 2.12 | ⅜ - 16 | 4 |
| 145TCRD | 13.05 | 7.64 | 6.05 | 1.63 | 0.188 | 1.41 | 0.771 | 2.25 | 0.875 | 0.75 | 6.73 | 5.21 | 4.10 | 4.96 | 5.875 | 4.50 | 6.50 | 0.16 | 0.12 | 2.12 | ⅜ - 16 | 4 |
| 182TCRD | 15.52 | 9.64 | 7.78 | 1.63 | 0.250 | 1.78 | 0.986 | 2.75 | 1.125 | 0.75 | 7.47 | 6.23 | 4.35 | 5.35 | 7.250 | 8.50 | 8.70 | 0.25 | 0.12 | 2.62 | ½ - 13 | 4 |
| 184TCRD | 16.55 | 9.64 | 8.29 | 1.63 | 0.250 | 1.78 | 0.986 | 2.75 | 1.125 | 0.75 | 7.47 | 6.23 | 4.35 | 5.35 | 7.250 | 8.50 | 8.70 | 0.25 | 0.12 | 2.62 | ½ - 13 | 4 |
| 213TCRD | 18.86 | 11.26 | 9.22 | 1.63 | 0.312 | 2.41 | 1.201 | 3.38 | 1.375 | 1.00 | 8.23 | 7.34 | 4.35 | 5.35 | 7.250 | 8.50 | 9.00 | 0.25 | 0.25 | 3.12 | ½ - 13 | 4 |
| 215TCRD | 20.36 | 11.26 | 9.97 | 1.63 | 0.312 | 2.41 | 1.201 | 3.38 | 1.375 | 1.00 | 8.23 | 7.34 | 4.35 | 5.35 | 7.250 | 8.50 | 9.00 | 0.25 | 0.25 | 3.12 | ½ - 13 | 4 |
| 254TCRD | 23.13 | 12.76 | 10.75 | 2.01 | 0.375 | 2.91 | 1.416 | 4.00 | 1.625 | 1.25 | 11.88 | 9.08 | 7.56 | 5.35 | 7.250 | 8.50 | 9.68 | 0.25 | 0.25 | 3.75 | ½ - 13 | 4 |
| 256TCRD | 24.86 | 12.76 | 11.61 | 2.01 | 0.375 | 2.91 | 1.416 | 4.00 | 1.625 | 1.25 | 11.88 | 9.08 | 7.56 | 5.35 | 7.250 | 8.50 | 9.68 | 0.25 | 0.25 | 3.75 | ½ - 13 | 4 |
| 284TCRD | 26.21 | 14.19 | 12.09 | 2.01 | 0.500 | 3.28 | 1.591 | 4.62 | 1.875 | 1.50 | 12.43 | 9.64 | 7.56 | 5.35 | 9.000 | 10.50 | 10.90 | 0.25 | 0.25 | 4.38 | ½ - 13 | 4 |
| 286TCRD | 27.71 | 14.19 | 12.84 | 2.01 | 0.500 | 3.28 | 1.591 | 4.62 | 1.875 | 1.50 | 12.43 | 9.64 | 7.56 | 5.35 | 9.000 | 10.50 | 10.90 | 0.25 | 0.25 | 4.38 | ½ - 13 | 4 |
| 324TCRD | 31.07 | 15.84 | 14.57 | 2.41 | 0.500 | 3.91 | 1.845 | 5.25 | 2.125 | 2.00 | 15.20 | 11.21 | 10.16 | 7.01 | 11.000 | 12.50 | 13.27 | 0.25 | 0.25 | 5.00 | ⅝ - 11 | 4 |

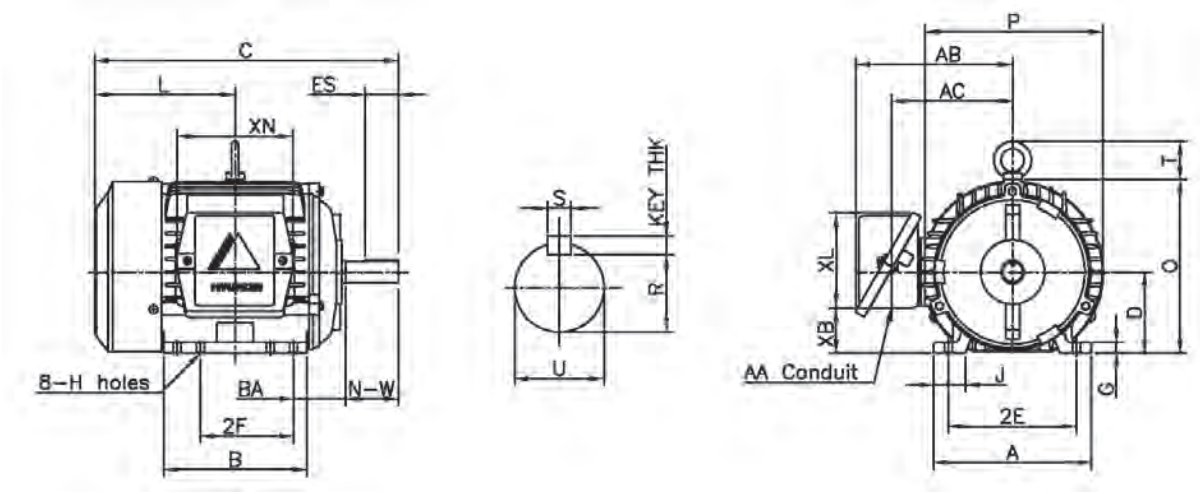


Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

# HYUNDAI CROWN TRITON™ SERIES MOTORS
# IEEE-841

*TEFC Enclosure ▪ Rigid Base*

*Three-Phase ▪ 460 Volt*




ALL DIMENSIONS IN INCHES

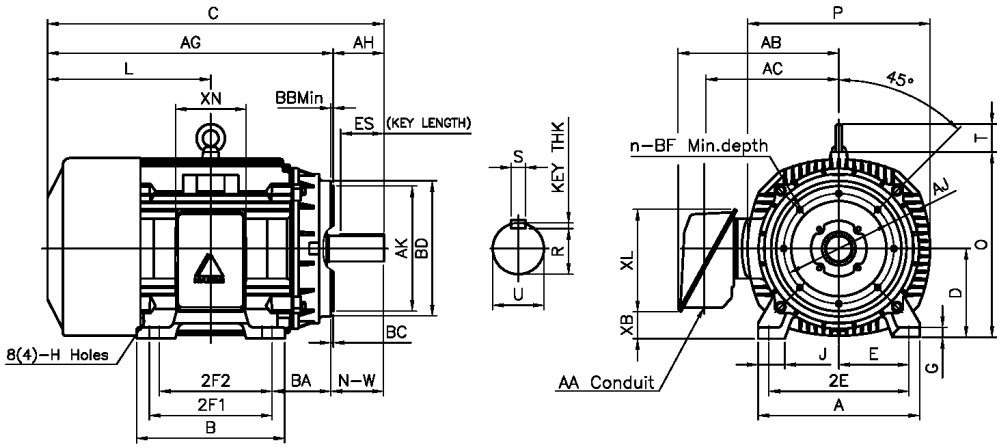
| Frame | E | 2F | H | BA | A | B | C | D | G | J | P | O | T | L | S | ES | R | N-W | U | AA | AB | AC | XB | XL | XN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 143T | 2.75 | 4.00 | 0.34 | 2.25 | 6.78 | 6.15 | 13.05 | 3.50 | 0.47 | 1.36 | 7.64 | 7.46 | 1.63 | 6.05 | 0.188 | 1.41 | 0.771 | 2.25 | 0.875 | 0.75 | 7.02 | 5.34 | 1.53 | 5.26 | 4.61 |
| 145T | 2.75 | 5.00 | 0.34 | 2.25 | 6.78 | 6.15 | 13.05 | 3.50 | 0.47 | 1.36 | 7.64 | 7.46 | 1.63 | 6.05 | 0.188 | 1.41 | 0.771 | 2.25 | 0.875 | 0.75 | 7.02 | 5.34 | 1.53 | 5.26 | 4.61 |
| 182T | 3.75 | 4.50 | 0.41 | 2.75 | 8.66 | 5.52 | 15.09 | 4.50 | 0.62 | 1.74 | 9.64 | 9.32 | 1.63 | 7.64 | 0.250 | 1.78 | 0.986 | 2.75 | 1.125 | 0.75 | 9.06 | 7.14 | 1.93 | 5.97 | 5.71 |
| 184T | 3.75 | 5.50 | 0.41 | 2.75 | 8.66 | 6.54 | 16.12 | 4.50 | 0.62 | 1.74 | 9.64 | 9.32 | 1.63 | 7.85 | 0.250 | 1.78 | 0.986 | 2.75 | 1.125 | 0.75 | 9.06 | 7.14 | 1.93 | 5.97 | 5.71 |
| 213T | 4.25 | 5.50 | 0.41 | 3.50 | 9.85 | 6.77 | 18.86 | 5.25 | 0.60 | 1.52 | 11.26 | 11.02 | 1.63 | 9.22 | 0.312 | 2.41 | 1.201 | 3.38 | 1.375 | 1.00 | 9.82 | 7.90 | 2.67 | 5.97 | 5.71 |
| 215T | 4.25 | 7.00 | 0.41 | 3.50 | 9.84 | 8.66 | 20.36 | 5.25 | 0.60 | 1.52 | 11.26 | 11.02 | 1.63 | 9.97 | 0.312 | 2.41 | 1.201 | 3.38 | 1.375 | 1.00 | 9.82 | 7.90 | 2.67 | 5.97 | 5.71 |
| 254T | 5.00 | 8.25 | 0.53 | 4.25 | 11.30 | 9.56 | 24.93 | 6.25 | 0.72 | 1.93 | 12.76 | 12.75 | 2.01 | 11.68 | 0.375 | 2.91 | 1.416 | 4.00 | 1.625 | 1.25 | 11.88 | 9.08 | 2.63 | 7.56 | 6.61 |
| 256T | 5.00 | 10.00 | 0.53 | 4.25 | 11.30 | 11.30 | 24.93 | 6.25 | 0.72 | 1.93 | 12.76 | 12.75 | 2.01 | 11.68 | 0.375 | 2.91 | 1.416 | 4.00 | 1.625 | 1.25 | 11.88 | 9.08 | 2.63 | 7.56 | 6.61 |
| 284T | 5.50 | 9.50 | 0.53 | 4.75 | 12.60 | 11.18 | 24.93 | 7.00 | 0.78 | 2.20 | 14.19 | 14.28 | 2.01 | 11.68 | 0.500 | 3.28 | 1.591 | 4.62 | 1.875 | 1.50 | 12.43 | 9.64 | 3.42 | 7.56 | 6.61 |
| 284TS | 5.50 | 9.50 | 0.53 | 4.75 | 12.60 | 11.18 | 26.28 | 7.00 | 0.78 | 2.20 | 14.19 | 14.28 | 2.01 | 12.16 | 0.375 | 1.91 | 1.416 | 3.25 | 1.625 | 1.50 | 12.43 | 9.64 | 3.42 | 7.56 | 6.61 |
| 286T | 5.50 | 11.00 | 0.53 | 4.75 | 12.60 | 12.68 | 26.28 | 7.00 | 0.78 | 2.20 | 14.19 | 14.28 | 2.01 | 12.16 | 0.500 | 3.28 | 1.591 | 4.62 | 1.875 | 1.50 | 12.43 | 9.64 | 3.42 | 7.56 | 6.61 |
| 286TS | 5.50 | 11.00 | 0.53 | 4.75 | 12.60 | 12.68 | 26.28 | 7.00 | 0.78 | 2.20 | 14.19 | 14.28 | 2.01 | 12.16 | 0.375 | 1.91 | 1.416 | 3.25 | 1.625 | 1.50 | 12.43 | 9.64 | 3.42 | 7.56 | 6.61 |
| 324T | 6.25 | 10.50 | 0.66 | 5.25 | 14.33 | 13.78 | 32.90 | 8.00 | 1.11 | 2.36 | 15.84 | 16.19 | 2.41 | 14.90 | 0.500 | 3.91 | 1.845 | 5.25 | 2.125 | 2.00 | 15.20 | 11.21 | 1.57 | 10.16 | 7.01 |
| 324TS | 6.25 | 10.50 | 0.66 | 5.25 | 14.33 | 13.78 | 31.40 | 8.00 | 1.11 | 2.36 | 15.84 | 16.19 | 2.41 | 14.90 | 0.500 | 2.03 | 1.591 | 3.75 | 1.875 | 2.00 | 15.20 | 11.21 | 1.57 | 10.16 | 7.01 |
| 326T | 6.25 | 12.00 | 0.66 | 5.25 | 14.33 | 13.78 | 32.90 | 8.00 | 1.11 | 2.36 | 15.84 | 16.19 | 2.41 | 14.90 | 0.500 | 3.91 | 1.845 | 5.25 | 2.125 | 2.00 | 15.20 | 11.21 | 1.57 | 10.16 | 7.01 |
| 326TS | 6.25 | 12.00 | 0.66 | 5.25 | 14.33 | 13.78 | 31.40 | 8.00 | 1.11 | 2.36 | 15.84 | 16.19 | 2.41 | 14.90 | 0.500 | 2.03 | 1.591 | 3.75 | 1.875 | 2.00 | 15.20 | 11.21 | 1.57 | 10.16 | 7.01 |
| 364T | 7.00 | 11.25 | 0.66 | 5.88 | 16.14 | 14.92 | 35.20 | 9.00 | 0.98 | 2.72 | 18.23 | 18.50 | 2.80 | 17.32 | 0.625 | 4.28 | 2.021 | 5.88 | 2.375 | 3.00 | 17.13 | 13.82 | 2.70 | 10.24 | 7.09 |
| 364TS | 7.00 | 11.25 | 0.66 | 5.88 | 16.14 | 14.92 | 33.06 | 9.00 | 0.98 | 2.72 | 18.23 | 18.50 | 2.80 | 17.32 | 0.500 | 2.03 | 1.591 | 3.75 | 1.875 | 3.00 | 17.13 | 13.18 | 2.70 | 10.24 | 7.09 |
| 365T | 7.00 | 12.25 | 0.66 | 5.88 | 16.14 | 14.92 | 35.20 | 9.00 | 0.98 | 2.72 | 18.23 | 18.50 | 2.80 | 17.32 | 0.625 | 4.28 | 2.021 | 5.88 | 2.375 | 3.00 | 17.13 | 13.82 | 2.70 | 10.24 | 7.09 |
| 365TS | 7.00 | 12.25 | 0.66 | 5.88 | 16.14 | 14.92 | 33.06 | 9.00 | 0.98 | 2.72 | 18.23 | 18.50 | 2.80 | 17.32 | 0.500 | 2.03 | 1.591 | 3.75 | 1.875 | 3.00 | 17.13 | 13.18 | 2.70 | 10.24 | 7.09 |
| 404T | 8.00 | 12.25 | 0.81 | 6.62 | 18.43 | 16.46 | 41.01 | 10.00 | 1.18 | 3.03 | 20.16 | 20.79 | 3.55 | 20.57 | 0.750 | 5.65 | 2.450 | 7.25 | 2.875 | 3.00 | 20.28 | 14.85 | 2.83 | 11.65 | 10.63 |
| 405T | 8.00 | 13.75 | 0.81 | 6.62 | 18.43 | 16.46 | 41.01 | 10.00 | 1.18 | 3.03 | 20.16 | 20.79 | 3.55 | 20.57 | 0.750 | 5.65 | 2.450 | 7.25 | 2.875 | 3.00 | 20.28 | 14.85 | 2.83 | 11.65 | 10.63 |
| 405TS | 8.00 | 13.75 | 0.81 | 6.62 | 18.43 | 16.46 | 38.00 | 10.00 | 1.18 | 3.03 | 20.16 | 20.79 | 3.55 | 20.57 | 0.500 | 2.78 | 1.845 | 4.25 | 2.125 | 3.00 | 20.28 | 14.85 | 2.83 | 11.65 | 10.63 |
| 444T | 9.00 | 14.50 | 0.81 | 7.50 | 20.51 | 19.21 | 46.45 | 11.00 | 1.42 | 3.07 | 22.40 | 23.19 | 4.33 | 22.22 | 0.875 | 6.91 | 2.880 | 8.50 | 3.375 | 3.00 | 21.26 | 18.03 | 3.83 | 11.65 | 10.63 |
| 444TS | 9.00 | 14.50 | 0.81 | 7.50 | 20.51 | 19.21 | 47.15 | 11.00 | 1.42 | 3.07 | 22.40 | 23.19 | 4.33 | 26.67 | 0.625 | 3.03 | 2.021 | 4.75 | 2.375 | 3.00 | 21.26 | 18.03 | 3.83 | 11.65 | 10.63 |
| 445T | 9.00 | 16.50 | 0.81 | 7.50 | 20.51 | 19.21 | 46.78 | 11.00 | 1.42 | 3.07 | 22.40 | 23.19 | 4.33 | 22.55 | 0.875 | 6.91 | 2.880 | 8.50 | 3.375 | 3.00 | 21.26 | 18.03 | 3.83 | 11.65 | 10.63 |
| 445TS | 9.00 | 16.50 | 0.81 | 7.50 | 20.51 | 19.21 | 47.15 | 11.00 | 1.42 | 3.07 | 22.40 | 23.19 | 4.33 | 26.67 | 0.625 | 3.03 | 2.021 | 4.75 | 2.375 | 3.00 | 21.26 | 18.03 | 3.83 | 11.65 | 10.63 |
| 447T | 9.00 | 20.00 | 0.81 | 7.50 | 20.51 | 22.72 | 50.29 | 11.00 | 1.42 | 3.07 | 22.40 | 23.19 | 4.33 | 24.30 | 0.875 | 6.91 | 2.880 | 8.50 | 3.375 | 3.00 | 23.78 | 20.70 | 3.14 | 16.30 | 13.78 |
| 447TS | 9.00 | 20.00 | 0.81 | 7.50 | 20.51 | 22.72 | 50.65 | 11.00 | 1.42 | 3.07 | 22.40 | 23.19 | 4.33 | 28.43 | 0.625 | 3.03 | 2.021 | 4.75 | 2.375 | 3.00 | 23.78 | 20.70 | 3.14 | 16.30 | 13.78 |
| 449T | 9.00 | 25.00 | 0.81 | 7.50 | 20.51 | 27.72 | 53.83 | 11.00 | 1.42 | 3.07 | 22.40 | 23.19 | 4.33 | 26.92 | 0.875 | 6.91 | 2.880 | 8.50 | 3.375 | 3.00 | 23.78 | 20.70 | 3.14 | 16.30 | 13.78 |
| 449TS | 9.00 | 25.00 | 0.81 | 7.50 | 20.51 | 27.72 | 55.77 | 11.00 | 1.42 | 3.07 | 22.40 | 23.19 | 4.33 | 30.98 | 0.625 | 3.03 | 2.021 | 4.75 | 2.375 | 3.00 | 23.78 | 20.70 | 3.14 | 16.30 | 13.78 |

Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

# HYUNDAI CROWN TRITON™ SERIES MOTORS
# IEEE-841

*TEFC Enclosure ▪ C-Face ▪ Rigid Base*

*Three-Phase ▪ 460 Volt*




ALL DIMENSIONS IN INCHES

| Frame | E | 2F1 | 2F2 | H | BA | A | B | C | D | G | J | P | O | T | L | S | ES | R | U |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 143TC | 2.75 | 4.00 | 5.00 | 0.34 | 2.75 | 6.78 | 6.15 | 13.05 | 3.50 | 0.47 | 1.36 | 7.64 | 7.46 | 1.63 | 6.05 | 0.188 | 1.41 | 0.771 | 0.875 |
| 145TC | 2.75 | 5.00 | 4.00 | 0.34 | 2.75 | 6.78 | 6.15 | 13.05 | 3.50 | 0.47 | 1.36 | 7.64 | 7.46 | 1.63 | 6.05 | 0.188 | 1.41 | 0.771 | 0.875 |
| 182TC | 3.75 | 4.50 | — | 0.41 | 3.50 | 8.66 | 5.52 | 15.09 | 4.50 | 0.62 | 1.74 | 9.64 | 9.32 | 1.63 | 7.64 | 0.250 | 1.78 | 0.986 | 1.125 |
| 184TC | 3.75 | 5.50 | — | 0.41 | 3.50 | 8.66 | 6.54 | 16.12 | 4.50 | 0.62 | 1.74 | 9.64 | 9.32 | 1.63 | 7.85 | 0.250 | 1.78 | 0.986 | 1.125 |
| 213TC | 4.25 | 5.50 | — | 0.41 | 4.25 | 9.85 | 6.77 | 18.86 | 5.25 | 0.60 | 1.52 | 11.26 | 11.02 | 1.63 | 9.22 | 0.312 | 2.41 | 1.201 | 1.375 |
| 215TC | 4.25 | 7.00 | — | 0.41 | 4.25 | 9.84 | 8.66 | 20.36 | 5.25 | 0.60 | 1.52 | 11.26 | 11.02 | 1.63 | 9.97 | 0.312 | 2.41 | 1.201 | 1.375 |
| 254TC | 5.00 | 8.25 | — | 053 | 4.75 | 11.30 | 9.56 | 24.93 | 6.25 | 0.72 | 1.93 | 12.76 | 12.75 | 2.01 | 11.68 | 0.375 | 2.91 | 1.416 | 1.625 |
| 256TC | 5.00 | 10.00 | — | 0.53 | 4.75 | 11.30 | 11.30 | 24.93 | 6.25 | 0.72 | 1.93 | 12.76 | 12.75 | 2.01 | 11.68 | 0.375 | 2.91 | 1.416 | 1.625 |
| 284TC | 5.50 | 9.50 | — | 0.53 | 4.75 | 12.60 | 11.18 | 24.93 | 7.00 | 0.78 | 2.20 | 14.19 | 14.28 | 2.01 | 11.68 | 0.500 | 3.28 | 1.591 | 1.875 |
| 284TSC | 5.50 | 9.50 | — | 0.53 | 4.75 | 12.60 | 11.18 | 26.28 | 7.00 | 0.78 | 2.20 | 14.19 | 14.28 | 2.01 | 12.16 | 0.375 | 1.91 | 1.416 | 1.625 |
| 286TC | 5.50 | 11.00 | — | 0.53 | 4.75 | 12.60 | 12.68 | 26.28 | 7.00 | 0.78 | 2.20 | 14.19 | 14.28 | 2.01 | 12.16 | 0.500 | 3.28 | 1.591 | 1.875 |
| 286TSC | 5.50 | 11.00 | — | 0.53 | 4.75 | 12.60 | 12.68 | 26.28 | 7.00 | 0.78 | 2.20 | 14.19 | 14.28 | 2.01 | 12.16 | 0.375 | 1.91 | 1.416 | 1.625 |
| 324TC | 6.25 | 10.50 | 12.00 | 0.66 | 5.25 | 14.33 | 13.78 | 32.90 | 8.00 | 1.11 | 2.36 | 15.84 | 16.19 | 2.41 | 14.90 | 0.500 | 3.91 | 1.845 | 2.125 |
| 324TSC | 6.25 | 10.50 | 12.00 | 0.66 | 5.25 | 14.33 | 13.78 | 32.90 | 8.00 | 1.11 | 2.36 | 15.84 | 16.19 | 2.41 | 14.90 | 0.500 | 2.03 | 1.591 | 1.875 |
| 326TC | 6.25 | 12.00 | 10.50 | 0.66 | 5.25 | 14.33 | 13.78 | 32.90 | 8.00 | 1.11 | 2.36 | 15.84 | 16.19 | 2.41 | 14.90 | 0.500 | 3.91 | 1.845 | 2.125 |
| 326TSC | 6.25 | 12.00 | 10.50 | 0.66 | 5.25 | 14.33 | 13.78 | 32.90 | 8.00 | 1.11 | 2.36 | 15.84 | 16.19 | 2.41 | 14.90 | 0.500 | 2.03 | 1.591 | 1.875 |
| 364TC | 7.00 | 11.25 | 12.25 | 0.66 | 5.88 | 16.14 | 14.92 | 35.20 | 9.00 | 0.98 | 2.72 | 18.23 | 18.50 | 2.80 | 17.32 | 0.625 | 4.28 | 2.021 | 2.375 |
| 365TC | 7.00 | 12.25 | 11.25 | 0.66 | 5.88 | 16.14 | 14.92 | 35.20 | 9.00 | 0.98 | 2.72 | 18.23 | 18.50 | 2.80 | 17.32 | 0.625 | 4.28 | 2.021 | 2.375 |
| 405TC | 8.00 | 13.75 | 12.25 | 0.81 | 5.88 | 18.43 | 16.46 | 41.01 | 10.00 | 1.18 | 3.03 | 20.16 | 20.79 | 3.55 | 20.57 | 0.750 | 5.65 | 2.450 | 2.875 |

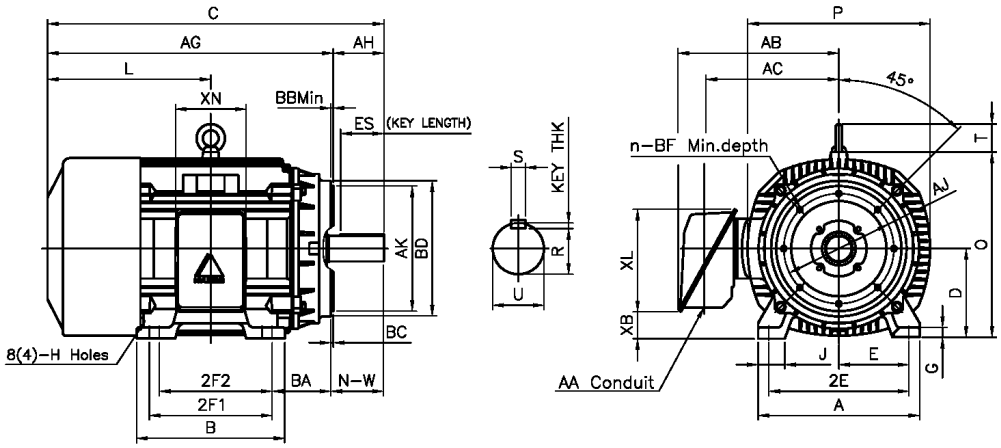


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Continued On Next Page

# HYUNDAI CROWN TRITON™ SERIES MOTORS
# IEEE-841

*TEFC Enclosure ▪ C-Face ▪ Rigid Base*
*Three-Phase ▪ 460 Volt*




ALL DIMENSIONS IN INCHES

| Frame | AA | AB | AC | XB | XL | XN | AJ | AK | BD | BB | BC | AH | BF | n |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 143TC | 0.75 | 7.02 | 5.34 | 1.53 | 5.26 | 4.61 | 5.875 | 4.50 | 6.50 | 0.16 | 0.12 | 2.12 | ⅜ - 16 | 4 |
| 145TC | 0.75 | 7.02 | 5.34 | 1.53 | 5.26 | 4.61 | 5.875 | 4.50 | 6.50 | 0.16 | 0.12 | 2.12 | ⅜ - 16 | 4 |
| 182TC | 0.75 | 9.06 | 7.14 | 1.93 | 5.97 | 5.71 | 7.250 | 8.50 | 8.70 | 0.25 | 0.12 | 2.62 | ½ - 13 | 4 |
| 184TC | 0.75 | 9.06 | 7.14 | 1.93 | 5.97 | 5.71 | 7.250 | 8.50 | 8.70 | 0.25 | 0.12 | 2.62 | ½ - 13 | 4 |
| 213TC | 1.00 | 9.82 | 7.90 | 2.67 | 5.97 | 5.71 | 7.250 | 8.50 | 9.00 | 0.25 | 0.25 | 3.12 | ½ - 13 | 4 |
| 215TC | 1.00 | 9.82 | 7.90 | 2.67 | 5.97 | 5.71 | 7.250 | 8.50 | 9.00 | 0.25 | 0.25 | 3.12 | ½ - 13 | 4 |
| 254TC | 1.25 | 11.88 | 9.08 | 2.63 | 7.56 | 6.61 | 7.250 | 8.50 | 9.68 | 0.25 | 0.25 | 3.75 | ½ - 13 | 4 |
| 256TC | 1.25 | 11.88 | 9.08 | 2.63 | 7.56 | 6.61 | 7.250 | 8.50 | 9.68 | 0.25 | 0.25 | 3.75 | ½ - 13 | 4 |
| 284TC | 1.50 | 12.43 | 9.64 | 3.42 | 7.56 | 6.61 | 9.000 | 10.50 | 10.90 | 0.25 | 0.25 | 4.38 | ½ - 13 | 4 |
| 284TSC | 1.50 | 12.43 | 9.64 | 3.42 | 7.56 | 6.61 | 9.000 | 10.50 | 10.90 | 0.25 | 0.25 | 3.00 | ½ - 13 | 4 |
| 286TC | 1.50 | 12.43 | 9.64 | 3.42 | 7.56 | 6.61 | 9.000 | 10.50 | 10.90 | 0.25 | 0.25 | 4.38 | ½ - 13 | 4 |
| 286TSC | 1.50 | 12.43 | 9.64 | 3.42 | 7.56 | 6.61 | 9.000 | 10.50 | 10.90 | 0.25 | 0.25 | 3.00 | ½ - 13 | 4 |
| 324TC | 2.00 | 15.20 | 11.21 | 1.57 | 10.16 | 7.01 | 11.000 | 12.50 | 13.27 | 0.25 | 0.25 | 5.00 | ⅝ - 11 | 4 |
| 324TSC | 2.00 | 15.20 | 11.21 | 1.57 | 10.16 | 7.01 | 11.000 | 12.50 | 13.27 | 0.25 | 0.25 | 3.50 | ⅝ - 11 | 4 |
| 326TC | 2.00 | 15.20 | 11.21 | 1.57 | 10.16 | 7.01 | 11.000 | 12.50 | 13.27 | 0.25 | 0.25 | 5.00 | ⅝ - 11 | 4 |
| 326TSC | 2.00 | 15.20 | 11.21 | 1.57 | 10.16 | 7.01 | 11.000 | 12.50 | 13.27 | 0.25 | 0.25 | 3.50 | ⅝ - 11 | 4 |
| 364TC | 3.00 | 17.13 | 13.82 | 2.70 | 10.24 | 7.09 | 11.000 | 12.50 | 13.38 | 0.25 | 0.25 | 5.62 | ⅝ - 11 | 8 |
| 365TC | 3.00 | 17.13 | 13.82 | 2.70 | 10.24 | 7.09 | 11.000 | 12.50 | 13.38 | 0.25 | 0.25 | 5.62 | ⅝ - 11 | 8 |
| 405TC | 3.00 | 20.28 | 14.85 | 2.83 | 11.65 | 10.63 | 11.000 | 12.50 | 13.78 | 0.25 | 0.25 | 7.00 | ⅝ - 11 | 8 |

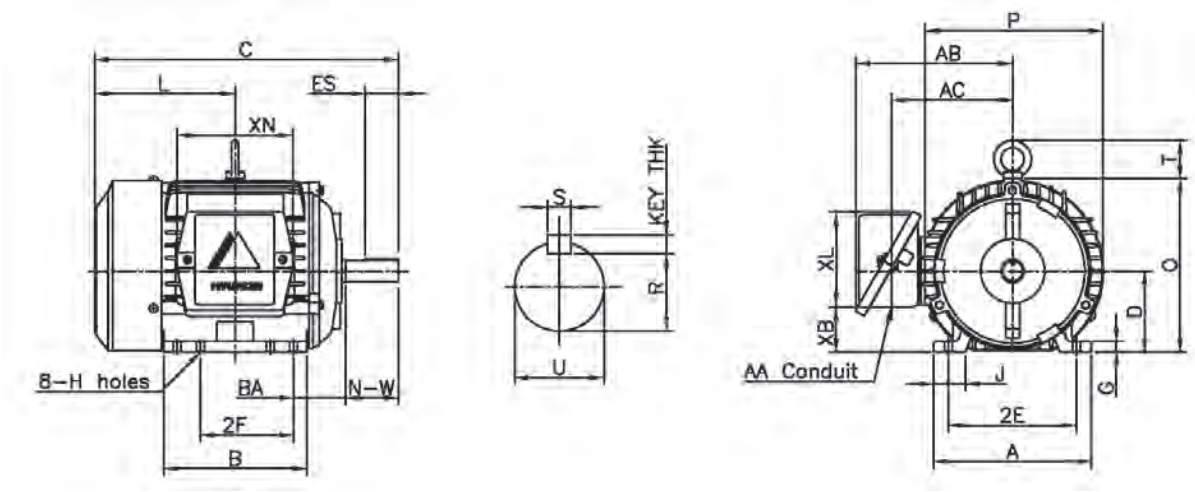


Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

# HYUNDAI CROWN TRITON™ SERIES MOTORS
# EXPLOSION PROOF - PREMIUM EFFICIENCY

*TEXP Enclosure ▪ Rigid Base*

*Three-Phase ▪ 208-230/460 Volt*




ALL DIMENSIONS IN INCHES

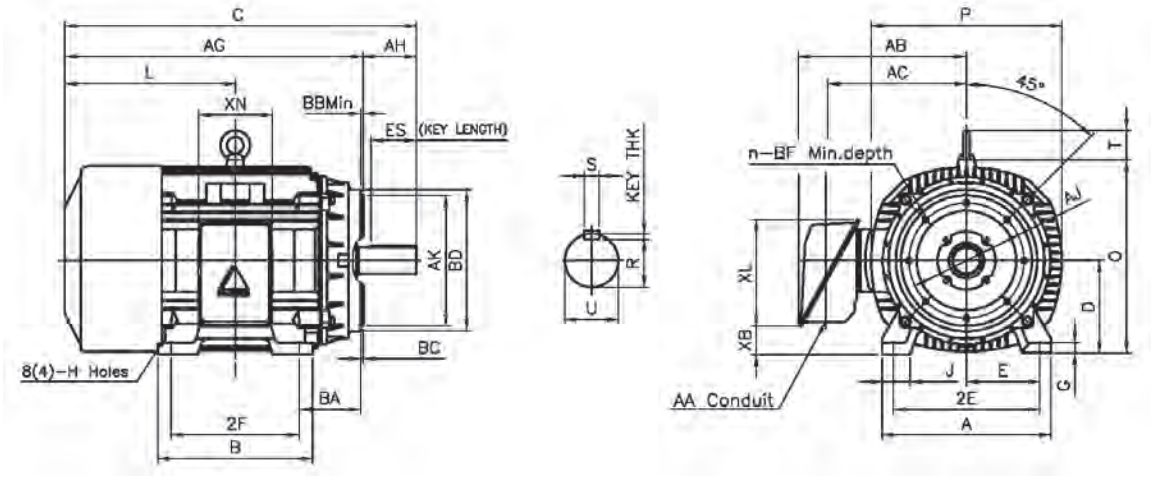
| Frame | E | 2F | H | BA | A | B | C | D | G | J | P | O | T | L | S | ES | R | N-W | U | AA | AB | AC | XB | XL | XN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 143T | 2.75 | 4.00 | 0.34 | 2.25 | 6.78 | 6.15 | 13.05 | 3.50 | 0.47 | 1.36 | 7.64 | 7.46 | 1.63 | 6.05 | 0.188 | 1.41 | 0.771 | 2.25 | 0.875 | 0.75 | 8.39 | 5.59 | — | 6.69 | 5.98 |
| 145T | 2.75 | 5.00 | 0.34 | 2.25 | 6.78 | 6.15 | 13.05 | 3.50 | 0.47 | 1.36 | 7.64 | 7.46 | 1.63 | 6.05 | 0.188 | 1.41 | 0.771 | 2.25 | 0.875 | 0.75 | 8.39 | 5.59 | — | 6.69 | 5.98 |
| 182T | 3.75 | 4.50 | 0.41 | 2.75 | 8.66 | 5.52 | 15.52 | 4.50 | 0.62 | 1.74 | 9.64 | 9.32 | 1.63 | 7.78 | 0.250 | 1.78 | 0.986 | 2.75 | 1.125 | 0.75 | 9.38 | 6.58 | — | 6.69 | 5.98 |
| 184T | 3.75 | 5.50 | 0.41 | 2.75 | 8.66 | 6.54 | 16.55 | 4.50 | 0.62 | 1.74 | 9.64 | 9.32 | 1.63 | 8.29 | 0.250 | 1.78 | 0.986 | 2.75 | 1.125 | 0.75 | 9.38 | 6.58 | — | 6.69 | 5.98 |
| 213T | 4.25 | 5.50 | 0.41 | 3.50 | 9.85 | 6.77 | 18.86 | 5.25 | 0.60 | 1.52 | 11.26 | 11.02 | 1.63 | 9.22 | 0.312 | 2.41 | 1.201 | 3.38 | 1.375 | 1.00 | 10.15 | 7.35 | — | 6.69 | 5.98 |
| 215T | 4.25 | 7.00 | 0.41 | 3.50 | 9.84 | 8.66 | 20.36 | 5.25 | 0.60 | 1.52 | 11.26 | 11.02 | 1.63 | 9.97 | 0.312 | 2.41 | 1.201 | 3.38 | 1.375 | 1.00 | 10.15 | 7.35 | — | 6.69 | 5.98 |
| 254T | 5.00 | 8.25 | 0.53 | 4.25 | 11.30 | 9.56 | 23.13 | 6.25 | 0.72 | 1.93 | 12.76 | 12.75 | 2.01 | 10.75 | 0.375 | 2.91 | 1.416 | 4.00 | 1.625 | 1.25 | 12.01 | 9.51 | 3.15 | 6.30 | 7.32 |
| 256T | 5.00 | 10.00 | 0.53 | 4.25 | 11.30 | 11.30 | 24.86 | 6.25 | 0.72 | 1.93 | 12.76 | 12.75 | 2.01 | 11.61 | 0.375 | 2.91 | 1.416 | 4.00 | 1.625 | 1.25 | 12.01 | 9.51 | 3.15 | 6.30 | 7.32 |
| 284T | 5.50 | 9.50 | 0.53 | 4.75 | 12.60 | 11.18 | 26.21 | 7.00 | 0.78 | 2.20 | 14.19 | 14.28 | 2.01 | 12.09 | 0.500 | 3.28 | 1.591 | 4.62 | 1.875 | 1.50 | 12.60 | 10.10 | 3.94 | 6.30 | 7.32 |
| 284TS | 5.50 | 9.50 | 0.53 | 4.75 | 12.60 | 11.18 | 24.84 | 7.00 | 0.78 | 2.20 | 14.19 | 14.28 | 2.01 | 12.09 | 0.375 | 1.91 | 1.416 | 3.25 | 1.625 | 1.50 | 12.60 | 10.10 | 3.94 | 6.30 | 7.32 |
| 286T | 5.50 | 11.00 | 0.53 | 4.75 | 12.60 | 12.68 | 27.71 | 7.00 | 0.78 | 2.20 | 14.19 | 14.28 | 2.01 | 12.84 | 0.500 | 3.28 | 1.591 | 4.62 | 1.875 | 1.50 | 12.60 | 10.10 | 3.94 | 6.30 | 7.32 |
| 286TS | 5.50 | 11.00 | 0.53 | 4.75 | 12.60 | 12.68 | 26.34 | 7.00 | 0.78 | 2.20 | 14.19 | 14.28 | 2.01 | 12.84 | 0.375 | 1.91 | 1.416 | 3.25 | 1.625 | 1.50 | 12.60 | 10.10 | 3.94 | 6.30 | 7.32 |
| 324T | 6.25 | 10.50 | 0.66 | 5.25 | 14.33 | 15.74 | 33.03 | 8.00 | 1.11 | 2.36 | 15.84 | 16.19 | 2.41 | 15.55 | 0.500 | 3.91 | 1.845 | 5.25 | 2.125 | 2.00 | 15.27 | 11.02 | 3.94 | 7.87 | 11.26 |
| 324TS | 6.25 | 10.50 | 0.66 | 5.25 | 14.33 | 15.74 | 31.53 | 8.00 | 1.11 | 2.36 | 15.84 | 16.19 | 2.41 | 15.55 | 0.500 | 2.03 | 1.591 | 3.75 | 1.875 | 2.00 | 15.27 | 11.02 | 3.94 | 7.87 | 11.26 |
| 326T | 6.25 | 12.00 | 0.66 | 5.25 | 14.33 | 15.74 | 33.03 | 8.00 | 1.11 | 2.36 | 15.84 | 16.19 | 2.41 | 15.55 | 0.500 | 3.91 | 1.845 | 5.25 | 2.125 | 2.00 | 15.27 | 11.02 | 3.94 | 7.87 | 11.26 |
| 326TS | 6.25 | 12.00 | 0.66 | 5.25 | 14.33 | 15.74 | 31.53 | 8.00 | 1.11 | 2.36 | 15.84 | 16.19 | 2.41 | 15.55 | 0.500 | 2.03 | 1.591 | 3.75 | 1.875 | 2.00 | 15.27 | 11.02 | 3.94 | 7.87 | 11.26 |
| 364T | 7.00 | 11.25 | 0.66 | 5.88 | 15.98 | 14.41 | 34.38 | 9.00 | 0.98 | 2.44 | 18.03 | 18.70 | 2.80 | 16.51 | 0.625 | 4.28 | 2.021 | 5.88 | 2.375 | 3.00 | 18.89 | 14.37 | 2.24 | 12.28 | 10.86 |
| 364TS | 7.00 | 11.25 | 0.66 | 5.88 | 15.98 | 14.41 | 34.01 | 9.00 | 0.98 | 2.44 | 18.03 | 18.70 | 2.80 | 16.51 | 0.500 | 2.03 | 1.591 | 3.75 | 1.875 | 3.00 | 18.89 | 14.37 | 2.24 | 12.28 | 10.86 |
| 365T | 7.00 | 12.25 | 0.66 | 5.88 | 15.98 | 14.41 | 34.38 | 9.00 | 0.98 | 2.44 | 18.03 | 18.70 | 2.80 | 16.51 | 0.625 | 4.28 | 2.021 | 5.88 | 2.375 | 3.00 | 18.89 | 14.37 | 2.24 | 12.28 | 10.86 |
| 365TS | 7.00 | 12.25 | 0.66 | 5.88 | 15.98 | 14.41 | 34.01 | 9.00 | 0.98 | 2.44 | 18.03 | 18.70 | 2.80 | 16.51 | 0.500 | 2.03 | 1.591 | 3.75 | 1.875 | 3.00 | 18.89 | 14.37 | 2.24 | 12.28 | 10.86 |
| 404T | 8.00 | 12.25 | 0.81 | 6.62 | 18.11 | 15.98 | 39.33 | 10.00 | 1.18 | 2.59 | 20.00 | 20.94 | 3.55 | 18.60 | 0.750 | 5.65 | 2.450 | 7.25 | 2.875 | 3.00 | 22.83 | 17.32 | 2.16 | 15.35 | 13.97 |
| 405T | 8.00 | 13.75 | 0.81 | 6.62 | 18.11 | 15.98 | 39.33 | 10.00 | 1.18 | 2.59 | 20.00 | 20.94 | 3.55 | 18.60 | 0.750 | 5.65 | 2.450 | 7.25 | 2.875 | 3.00 | 22.83 | 17.32 | 2.16 | 15.35 | 13.97 |
| 405TS | 8.00 | 13.75 | 0.81 | 6.62 | 18.11 | 15.98 | 36.33 | 10.00 | 1.18 | 2.59 | 20.00 | 20.94 | 3.55 | 18.60 | 0.500 | 2.78 | 1.845 | 4.25 | 2.125 | 3.00 | 22.83 | 17.32 | 2.16 | 15.35 | 13.97 |
| 444T | 9.00 | 14.50 | 0.81 | 7.50 | 20.00 | 18.81 | 45.15 | 11.00 | 1.53 | 2.56 | 21.97 | 23.38 | 4.33 | 20.92 | 0.875 | 6.91 | 2.880 | 8.50 | 3.375 | 3.00 | 24.01 | 18.30 | 3.34 | 15.35 | 13.97 |
| 444TS | 9.00 | 14.50 | 0.81 | 7.50 | 20.00 | 18.81 | 41.40 | 11.00 | 1.53 | 2.56 | 21.97 | 23.38 | 4.33 | 20.92 | 0.625 | 3.03 | 2.021 | 4.75 | 2.375 | 3.00 | 24.01 | 18.30 | 3.34 | 15.35 | 13.97 |
| 445T | 9.00 | 16.50 | 0.81 | 7.50 | 20.00 | 18.81 | 45.15 | 11.00 | 1.53 | 2.56 | 21.97 | 23.38 | 4.33 | 20.92 | 0.875 | 6.91 | 2.880 | 8.50 | 3.375 | 3.00 | 24.01 | 18.30 | 3.34 | 15.35 | 13.97 |
| 445TS | 9.00 | 16.50 | 0.81 | 7.50 | 20.00 | 18.81 | 41.40 | 11.00 | 1.53 | 2.56 | 21.97 | 23.38 | 4.33 | 20.92 | 0.625 | 3.03 | 2.021 | 4.75 | 2.375 | 3.00 | 24.01 | 18.30 | 3.34 | 15.35 | 13.97 |
| 447T | 9.00 | 20.00 | 0.81 | 7.50 | 20.00 | 27.28 | 54.32 | 11.00 | 1.53 | 2.56 | 21.97 | 23.38 | 4.33 | 20.92 | 0.875 | 6.91 | 2.880 | 8.50 | 3.375 | 3.00 | 24.01 | 18.30 | 3.34 | 15.35 | 13.97 |
| 447TS | 9.00 | 20.00 | 0.81 | 7.50 | 20.00 | 27.28 | 50.57 | 11.00 | 1.53 | 2.56 | 21.97 | 23.38 | 4.33 | 20.92 | 0.625 | 3.03 | 2.021 | 4.75 | 2.375 | 3.00 | 24.01 | 18.30 | 3.34 | 15.35 | 13.97 |
| 449T | 9.00 | 25.00 | 0.81 | 7.50 | 20.00 | 27.28 | 54.32 | 11.00 | 1.53 | 2.56 | 21.97 | 23.38 | 4.33 | 20.92 | 0.875 | 6.91 | 2.880 | 8.50 | 3.375 | 3.00 | 24.01 | 18.30 | 3.34 | 15.35 | 13.97 |
| 449TS | 9.00 | 25.00 | 0.81 | 7.50 | 20.00 | 27.28 | 50.57 | 11.00 | 1.53 | 2.56 | 21.97 | 23.38 | 4.33 | 20.92 | 0.625 | 3.03 | 2.021 | 4.75 | 2.375 | 3.00 | 24.01 | 18.30 | 3.34 | 15.35 | 13.97 |

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For an exact drawing on a specific rating, please contact our sales office.

# HYUNDAI CROWN TRITON™ SERIES MOTORS
# EXPLOSION PROOF - PREMIUM EFFICIENCY

*TEXP Enclosure ▪ C-Face ▪ Rigid Base*

*Three-Phase ▪ 208-230/460 Volt*




ALL DIMENSIONS IN INCHES

| Frame | E | 2F | H | BA | A | B | C | D | G | J | P | O | T | L | S | ES | R | U |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 145TC | 2.75 | 5.00 | 0.34 | 2.75 | 6.78 | 6.15 | 13.05 | 3.50 | 0.47 | 1.36 | 7.64 | 7.46 | 1.63 | 6.05 | 0.188 | 1.41 | 0.771 | 0.875 |
| 182TC | 3.75 | 4.50 | 0.41 | 2.75 | 8.66 | 5.52 | 15.52 | 4.50 | 0.62 | 1.74 | 9.64 | 9.32 | 1.63 | 7.78 | 0.250 | 1.78 | 0.986 | 1.125 |
| 184TC | 3.75 | 5.50 | 0.41 | 2.75 | 8.66 | 6.54 | 16.55 | 4.50 | 0.62 | 1.74 | 9.64 | 9.32 | 1.63 | 8.29 | 0.250 | 1.78 | 0.986 | 1.125 |
| 213TC | 4.25 | 5.50 | 0.41 | 3.50 | 9.85 | 6.77 | 18.86 | 5.25 | 0.60 | 1.52 | 11.26 | 11.02 | 1.63 | 9.22 | 0.312 | 2.41 | 1.201 | 1.375 |
| 215TC | 4.25 | 7.50 | 0.41 | 3.50 | 9.84 | 8.66 | 20.36 | 5.25 | 0.60 | 1.52 | 11.26 | 11.02 | 1.63 | 9.97 | 0.312 | 2.41 | 1.201 | 1.375 |
| 254TC | 5.00 | 8.25 | 0.53 | 4.25 | 11.30 | 9.56 | 23.13 | 6.25 | 0.72 | 1.93 | 12.76 | 12.75 | 2.01 | 10.75 | 0.375 | 2.91 | 1.416 | 1.625 |
| 256TC | 5.00 | 10.00 | 0.53 | 4.25 | 11.30 | 11.30 | 24.86 | 6.25 | 0.72 | 1.93 | 12.76 | 12.75 | 2.01 | 11.61 | 0.375 | 2.91 | 1.416 | 1.625 |
| 284TC | 5.50 | 9.50 | 0.53 | 4.75 | 12.60 | 11.18 | 26.21 | 7.00 | 0.78 | 2.20 | 14.19 | 14.28 | 2.01 | 12.09 | 0.500 | 3.28 | 1.519 | 1.875 |
| 286TC | 5.50 | 11.00 | 0.53 | 4.75 | 12.60 | 12.68 | 27.71 | 7.00 | 0.78 | 2.20 | 14.19 | 4.28 | 2.01 | 12.84 | 0.500 | 3.28 | 1.591 | 1.875 |
| 324TC | 6.25 | 10.50 | 0.66 | 5.25 | 14.33 | 15.74 | 33.03 | 8.00 | 1.11 | 2.35 | 15.84 | 16.19 | 2.41 | 15.55 | 0.500 | 3.91 | 1.845 | 2.125 |
| 326TC | 6.25 | 12.00 | 0.66 | 5.25 | 14.33 | 15.74 | 33.03 | 8.00 | 1.11 | 2.36 | 15.84 | 16.19 | 2.41 | 15.55 | 0.500 | 3.91 | 1.845 | 2.125 |
| 364TC | 7.00 | 11.25 | 0.66 | 5.88 | 15.98 | 14.41 | 34.38 | 9.00 | 0.98 | 2.44 | 18.03 | 18.70 | 2.80 | 16.51 | 0.625 | 4.28 | 2.021 | 2.375 |
| 365TC | 7.00 | 12.25 | 0.66 | 5.88 | 15.98 | 14.41 | 34.38 | 9.00 | 0.98 | 2.44 | 18.03 | 18.70 | 2.80 | 16.51 | 0.625 | 4.28 | 2.021 | 2.375 |
| 365TSC | 7.00 | 12.25 | 0.66 | 5.88 | 15.98 | 14.41 | 34.01 | 9.00 | 0.98 | 2.44 | 18.03 | 18.70 | 2.80 | 16.51 | 0.500 | 2.03 | 1.591 | 1.875 |
| 405TC | 8.00 | 13.75 | 0.81 | 6.62 | 18.11 | 15.98 | 39.33 | 10.00 | 1.18 | 2.59 | 20.00 | 20.94 | 3.55 | 18.60 | 0.750 | 5.65 | 2.450 | 2.875 |
| 405TSC | 8.00 | 13.75 | 0.81 | 6.62 | 18.11 | 15.98 | 36.33 | 10.00 | 1.18 | 2.59 | 20.00 | 20.94 | 3.55 | 18.60 | 0.500 | 2.78 | 1.845 | 2.125 |



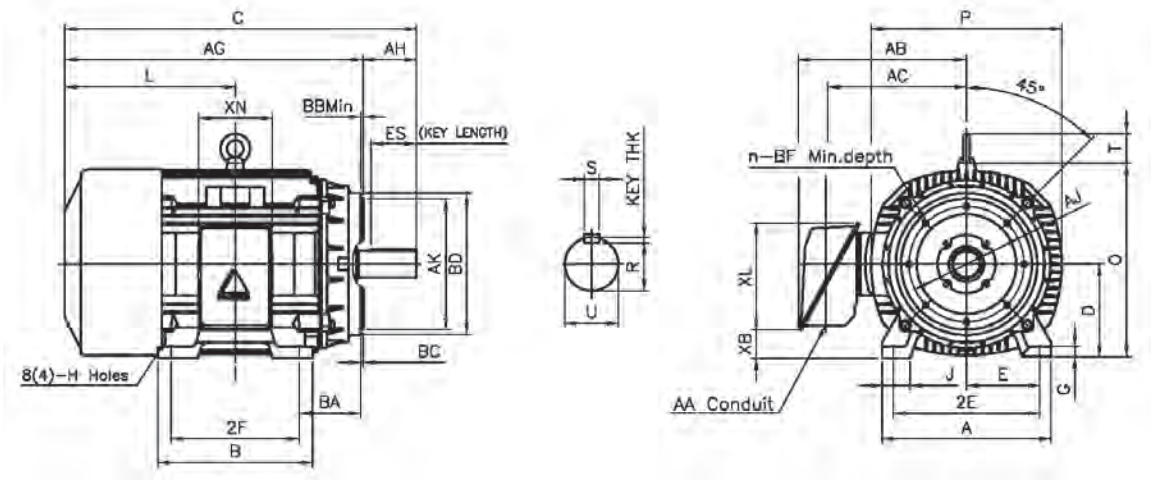
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Continued On Next Page

# HYUNDAI CROWN TRITON™ SERIES MOTORS
# EXPLOSION PROOF - PREMIUM EFFICIENCY

*TEXP Enclosure ▪ C-Face ▪ Rigid Base*

*Three-Phase ▪ 208-230/460 Volt*



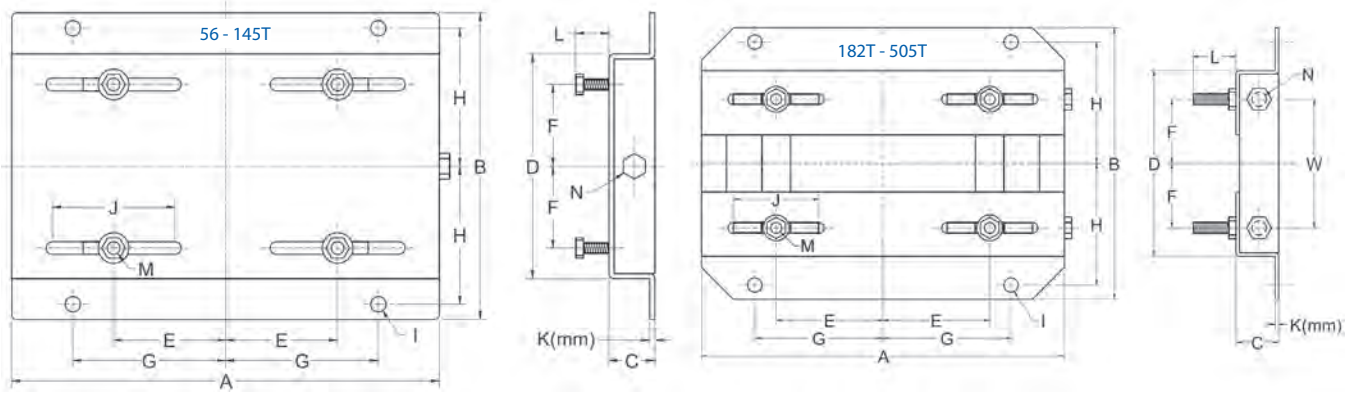

ALL DIMENSIONS IN INCHES

| Frame | AA | AB | AC | XB | XL | XN | AJ | AK | BD | BB | BC | AH | BF | n |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 145TC | 0.75 | 8.39 | 5.59 | — | 6.69 | 5.98 | 5.875 | 4.50 | 6.57 | 0.16 | 0.12 | 2.12 | ⅜ - 16 | 4 |
| 182TC | 0.75 | 9.38 | 6.58 | — | 6.69 | 5.98 | 7.250 | 8.50 | 8.70 | 0.25 | 0.12 | 2.62 | ½ - 13 | 4 |
| 184TC | 0.75 | 9.38 | 6.58 | — | 6.69 | 5.98 | 7.250 | 8.50 | 8.70 | 0.25 | 0.12 | 2.62 | ½ - 13 | 4 |
| 213TC | 1.00 | 10.15 | 7.35 | — | 6.69 | 5.98 | 7.250 | 8.50 | 9.00 | 0.25 | 0.25 | 3.12 | ½ - 13 | 4 |
| 215TC | 1.00 | 10.15 | 7.35 | — | 6.69 | 5.98 | 7.250 | 8.50 | 9.00 | 0.25 | 0.25 | 3.12 | ½ - 13 | 4 |
| 254TC | 1.25 | 12.01 | 9.51 | 3.15 | 6.30 | 7.32 | 7.250 | 8.50 | 9.68 | 0.25 | 0.25 | 3.75 | ½ - 13 | 4 |
| 256TC | 1.25 | 12.01 | 9.51 | 3.15 | 6.30 | 7.32 | 7.250 | 8.50 | 9.68 | 0.25 | 0.25 | 3.75 | ½ - 13 | 4 |
| 284TC | 1.50 | 12.60 | 10.10 | 3.94 | 6.30 | 7.32 | 9.000 | 10.50 | 10.90 | 0.25 | 0.25 | 4.38 | ½ - 13 | 4 |
| 286TC | 1.50 | 12.60 | 10.10 | 3.94 | 6.30 | 7.32 | 9.000 | 10.50 | 10.90 | 0.25 | 0.25 | 4.38 | ½ - 13 | 4 |
| 324TC | 2.00 | 15.27 | 11.02 | 3.94 | 7.87 | 11.26 | 11.000 | 12.50 | 13.27 | 0.25 | 0.25 | 5.00 | ⅝ - 11 | 4 |
| 326TC | 2.00 | 15.27 | 11.02 | 3.94 | 7.87 | 11.26 | 11.000 | 12.50 | 13.27 | 0.25 | 0.25 | 5.00 | ⅝ - 11 | 4 |
| 364TC | 3.00 | 18.89 | 14.37 | 2.24 | 12.28 | 10.86 | 11.000 | 12.50 | 13.38 | 0.25 | 0.25 | 5.62 | ⅝ - 11 | 8 |
| 365TC | 3.00 | 18.89 | 14.37 | 2.24 | 12.28 | 10.86 | 11.000 | 12.50 | 13.38 | 0.25 | 0.25 | 5.62 | ⅝ - 11 | 8 |
| 365TSC | 3.00 | 18.89 | 14.37 | 2.24 | 12.28 | 10.86 | 11.000 | 12.50 | 13.78 | 0.25 | 0.25 | 3.50 | ⅝ - 11 | 8 |
| 405TC | 3.00 | 22.83 | 17.32 | 2.16 | 15.35 | 13.97 | 11.000 | 12.50 | 13.78 | 0.25 | 0.25 | 7.00 | ⅝ - 11 | 8 |
| 405TSC | 3.00 | 22.83 | 17.32 | 2.16 | 15.35 | 13.97 | 11.000 | 12.50 | 13.78 | 0.25 | 0.25 | 4.00 | ⅝ - 11 | 8 |



Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

# WORLDWIDE ACCESSORIES / PARTS
# MOTOR SLIDE BASES




ALL DIMENSIONS IN INCHES

| Frame | A | B | C | D | E | F | G | H | I | J | K (mm) | L | M | N | W |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 56 | 10 5/8 | 6 1/2 | 1 1/8 | 4 1/2 | 2 7/16 | 1 1/2 | 3 13/16 | 2 7/8 | 3/8 | 3 | 2 | 7/8 | 5/16 x 1 | 3/8 x 4 | — |
| 143T | 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 | 3 | 13/16 | 5/16 x 1 | 3/8 x 4 | — |
| 145T | 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 | 3 | 13/16 | 5/16 x 1 | 3/8 x 4 | — |
| 182T | 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 | 3 1/2 | 1 1/2 | 3/8 x 1 3/4 | 1/2 x 6 | 4 1/2 |
| 184T | 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 | 3 1/2 | 1 1/2 | 3/8 x 1 3/4 | 1/2 x 6 | 5 1/2 |
| 213T | 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 | 3 4/5 | 1 1/2 | 3/8 x 1 3/4 | 1/2 x 6 | 5 1/2 |
| 215T | 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 | 3 4/5 | 1 1/2 | 3/8 x 1 3/4 | 1/2 x 6 | 7 |
| 254T | 17 3/4 | 15 1/8 | 2 | 10 3/4 | 5 | 4 1/8 | 6 1/4 | 6 5/8 | 5/8 | 4 | 4 3/5 | 1 7/16 | 1/2 x 1 3/4 | 5/8 x 6 | 5 5/16 |
| 256T | 17 3/4 | 16 7/8 | 2 | 12 1/2 | 5 | 5 | 6 1/4 | 7 1/2 | 5/8 | 4 | 4 3/5 | 1 7/16 | 1/2 x 1 3/4 | 5/8 x 6 | 7 |
| 284T | 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 | 4 3/5 | 1 11/16 | 1/2 x 2 | 5/8 x 6 | 7 |
| 286T | 19 3/4 | 18 3/8 | 2 | 14 | 5 1/2 | 5 1/2 | 7 | 8 1/4 | 5/8 | 4 1/2 | 4 3/5 | 1 11/16 | 1/2 x 2 | 5/8 x 6 | 8 |
| 324T | 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 | 4 3/5 | 2 3/16 | 5/8 x 2 1/2 | 3/4 x 9 | 7 |
| 326T | 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 | 4 3/5 | 2 3/16 | 5/8 x 2 1/2 | 3/4 x 9 | 8 1/2 |
| 364T | 25 1/2 | 20 1/2 | 2 1/2 | 15 1/2 | 7 | 5 5/8 | 9 | 9 1/8 | 3/4 | 6 | 5 4/5 | 2 1/16 | 5/8 x 2 1/2 | 3/4 x 9 | 7 3/4 |
| 365T | 25 1/2 | 21 1/2 | 2 1/2 | 16 1/2 | 7 | 6 1/8 | 9 | 9 5/8 | 3/4 | 6 | 5 4/5 | 2 1/16 | 5/8 x 2 1/2 | 3/4 x 9 | 8 3/4 |
| 404T | 28 3/4 | 22 3/8 | 3 | 16 1/2 | 8 | 6 1/8 | 10 | 9 7/8 | 7/8 | 7 | 5 4/5 | 2 1/2 | 3/4 x 3 | 3/4 x 11 | 8 3/4 |
| 405T | 28 3/4 | 23 7/8 | 3 | 18 | 8 | 6 7/8 | 10 | 10 5/8 | 7/8 | 7 | 5 4/5 | 2 1/2 | 3/4 x 3 | 3/4 x 11 | 10 1/4 |
| 444T | 31 1/4 | 24 5/8 | 3 | 19 1/4 | 9 | 7 1/4 | 11 | 11 | 7/8 | 7 1/2 | 5 4/5 | 2 1/2 | 3/4 x 3 | 3/4 x 11 | 11 |
| 445T | 31 1/4 | 26 5/8 | 3 | 21 1/4 | 9 | 8 1/4 | 11 | 12 | 7/8 | 7 1/2 | 5 4/5 | 2 1/2 | 3/4 x 3 | 3/4 x 11 | 13 |
| 447T | 31 1/4 | 30 1/8 | 3 | 24 3/4 | 9 | 10 | 11 | 13 3/4 | 7/8 | 7 1/2 | 8 | 3 | 3/4 x 3 1/2 | 3/4 x 11 | 16 1/2 |
| 449T | 31 1/4 | 35 1/8 | 3 | 29 3/4 | 9 | 12 1/2 | 11 | 16 1/4 | 7/8 | 7 1/2 | 8 | 3 | 3/4 x 3 1/2 | 3/4 x 11 | 21 1/2 |
| 505T | 35 | 30 | 3 1/2 | 22 3/4 | 10 | 9 | 12 1/2 | 13 1/2 | 1 | 8 | 8 | 3 | 7/8 x 3 1/2 | 7/8 x 12 | 14 1/2 |



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For an exact drawing on a specific rating, please contact our sales office.

# WORLDWIDE MOTOR CONTROLS

## *NEMA Across-Line Motor Starters*

### *Heavy Duty Motor Starters*

### *With ESP200 Solid State Overload*



**WSCUD32A***

## Product Overview

- True phase loss protection - trips within 3 seconds
- Phase unbalanced prevents motor running inefficiently
- Ground fault trip when selected
- Selectable trip class: 5, 10, 20 or 30
- Reset trip can be selected auto/manual reset
- Overload is self powered. No need for external power source.
- Dual voltage, dual frequency coils
- Easy to select and use DIP Switch Selectable
- Rugged industrial design
- Half sizes for cost and space savings
- Wide range of accessories
- Easy coil access
- Overload test feature
- Straight through wiring
- Gravity dropout
- Large silver cadmium contacts
- UL Listed and CSA Certified

**Field Modification Kits / Auxiliary Contact Kits**

| Class | Size | Type | Model Number | List Price |
|---|---|---|---|---|
| 14,17, 18, 22, 25, 26, 30, 32, 36, 37, 40, 43, 83, 84, 87, 88 | 00-4 | 1 NO | 49AB10 | $116.36 |
| | | 1 NC | 49AB01 | $116.36 |
| | | 1 NC early break | 49AB01EB | $205.45 |
| | | 1 NC late break | 49AB01LB | $205.45 |
| | | 1 NC extra late break | 49AB01XLB | $205.45 |
| | | 2 NO extra late make | 49AB10XLM | $205.45 |
| | | 1 NO & 1 NC | 49AB11 | $234.90 |
| | | 2 NO | 49AB20 | $234.90 |

**Coil Table ***

| 60 Hz Voltage | Letter |
|---|---|
| 24 Separate Control | J |
| 120 Separate Control | F |
| 110-120/220-240 | A |
| 200-208 | D |
| 220-240 | G |
| 277 | L |
| 220-240/440-480 | C |
| 440-480 | H |
| 550-600 | E |

| HP | | | | NEMA Size | Overload Amp Range | Enclosure | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Open | | NEMA 1 | | NEMA 12; NEMA 3/3R | |
| 200 Volts | 230 Volts | 460 Volts | 575 Volts | | | Model Number | List Price | Model Number | List Price | Model Number | List Price |
| ⅛ | ⅛ | ⅓ | ½ | 00 | 0.25-1 | WSBUA32A* | $511.01 | WSBUA32B* | — | Use Size 0 | |
| ½ | ¾ | 1 ½ | 2 | 00 | 0.75-3.4 | WSBUB32A* | $511.01 | WSBUB32B* | $521.61 | Use Size 0 | |
| 1 ½ | 1 ½ | 2 | — | 00 | 3-12 | WSBUC32A* | $514.06 | WSBUC32B* | $521.61 | Use Size 0 | |
| ⅛ | ⅛ | ⅓ | ½ | 0 | 0.25-1 | WSCUA32A* | $615.96 | WSCUA32B* | $630.78 | WSCUA320* | $816.78 |
| ½ | ¾ | 1 ½ | 2 | 0 | 0.75-3.4 | WSCUB32A* | $615.96 | WSCUB32B* | $630.78 | WSCUB320* | $816.78 |
| 2 | 2 | 5 | 5 | 0 | 3-12 | WSCUC32A* | $619.00 | WSCUC32B* | $630.78 | WSCUC320* | $816.78 |
| 3 | 3 | — | — | 0 | 5.5-22 | WSCUD32A* | $619.00 | WSCUD32B* | $630.78 | WSCUD320* | $816.78 |
| ⅛ | ⅛ | ⅓ | ½ | 1 | 0.25-1 | WSDUA32A* | $690.48 | WSDUA32B* | $709.63 | WSDUA320* | $895.63 |
| ½ | ¾ | 1 ½ | 2 | 1 | 0.75-3.4 | WSDUB32A* | $690.48 | WSDUB32B* | $709.63 | WSDUB320* | $895.63 |
| 2 | 2 | 5 | 5 | 1 | 3-12 | WSDUC32A* | $693.52 | WSDUC32B* | $709.63 | WSDUC320* | $895.63 |
| 3 | 3 | 10 | 10 | 1 | 5.5-22 | WSDUD32A* | $693.52 | WSDUD32B* | $709.63 | WSDUD320* | $895.63 |
| 7 ½ | 7 ½ | — | — | 1 | 10-40 | WSDUE32A* | $693.52 | WSDUE32B* | $709.63 | WSDUE320* | $895.63 |
| 10 | 10 | 15 | 15 | 1 ¾ | 10-40 | WSEUE32A* | $918.62 | WSEUE32B* | $942.13 | WSEUE320* | $1,130.15 |
| 10 | 15 | 25 | 25 | 2 | 13-52 | WSFUF32A* | $ 1,195.42 | WSFUF32B* | $1,332.33 | WSFUF320* | $1,674.00 |
| 15 | 20 | 30 | 30 | 2 ½ | 25-100 | WSGUG32A* | $1,522.41 | WSGUG32B* | $1,752.85 | WSGUG320* | $2,126.87 |
| 25 | 30 | 50 | 50 | 3 | 25-100 | WSHUG32A* | $1,862.02 | WSHUG32B* | $2,173.37 | WSHUG320* | $2,577.72 |
| 30 | 40 | 75 | 75 | 3 ½ | 50-200 | WSIUH32A* | $3,544.11 | WSIUH32B* | $4,197.13 | WSIUH320* | $5,537.54 |
| 40 | 50 | 100 | 100 | 4 | 50-200 | WSJUH32A* | $4,166.80 | WSJUH32B* | $4,819.83 | WSJUH320* | $6,160.24 |
| 75 | 100 | 200 | 200 | 5 | 55-250 | WSLPU32A* | $10,076.35 | WSLPU32B* | $11,277.26 | WSLPU320* | $14,704.11 |
| 150 | 200 | 400 | 400 | 6 | 160-630 | WSMPX32A* | $23,862.59 | WSMPX32B* | $31,650.33 | WSMPX320* | $35,855.54 |
| — | 300 | 600 | 600 | 7 | 400-1220 | WSNUN32A* | $34,047.76 | WSNUN32B* | PLEASE CALL FOR PRICING | WSNUN320* | PLEASE CALL FOR PRICING |
| — | 450 | 900 | 900 | 8 | 400-1220 | WSPUN32A* | $49,412.12 | WSPUN32B* | | WSPUN320* | |

*Please refer to PAGE 144 for replacement coils
Continued On Next Page

# WORLDWIDE MOTOR CONTROLS

## *NEMA Across-Line Motor Starters*

### *Heavy Duty Motor Starters*

### *With ESP200 Solid State Overload*



**WSCUD32A***

## Product Overview

- True phase loss protection - trips within 3 seconds
- Phase unbalanced prevents motor running inefficiently
- Ground fault trip when selected
- Selectable trip class: 5, 10, 20 or 30
- Reset trip can be selected auto/manual reset
- Overload is self powered. No need for external power source.
- Dual voltage, dual frequency coils
- Easy to select and use DIP Switch Selectable
- Rugged industrial design
- Half sizes for cost and space savings
- Wide range of accessories
- Easy coil access
- Overload test feature
- Straight through wiring
- Gravity dropout
- Large silver cadmium contacts
- UL Listed and CSA Certified

**Field Modification Kits / Auxiliary Contact Kits**

| Class | Size | Type | Model Number | List Price |
|---|---|---|---|---|
| 14,17, 18, 22, 25, 26, 30, 32, 36, 37, 40, 43, 83, 84, 87, 88 | 00-4 | 1 NO | 49AB10 | $116.36 |
| | | 1 NC | 49AB01 | $116.36 |
| | | 1 NC early break | 49AB01EB | $205.45 |
| | | 1 NC late break | 49AB01LB | $205.45 |
| | | 1 NC extra late break | 49AB01XLB | $205.45 |
| | | 2 NO extra late make | 49AB10XLM | $205.45 |
| | | 1 NO & 1 NC | 49AB11 | $234.90 |
| | | 2 NO | 49AB20 | $234.90 |

**Coil Table ***

| 60 Hz Voltage | Letter |
|---|---|
| 24 Separate Control | J |
| 120 Separate Control | F |
| 110-120/220-240 | A |
| 200-208 | D |
| 220-240 | G |
| 277 | L |
| 220-240/440-480 | C |
| 440-480 | H |
| 550-600 | E |

| HP | | | | NEMA Size | Overload Amp Range | Enclosure | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | NEMA 4/4X Stainless Steel | | NEMA 4X Fiberglass | | NEMA 7 & 9 NEMA 3 & 4 | |
| 200 Volts | 230 Volts | 460 Volts | 575 Volts | | | Model Number | List Price | Model Number | List Price | Model Number | List Price |
| ⅛ | ⅛ | ⅓ | ½ | 00 | 0.25-1 | Use Size 0 | | Use Size 0 | | Use Size 0 | |
| ½ | ¾ | 1 ½ | 2 | 00 | 0.75-3.4 | Use Size 0 | | Use Size 0 | | Use Size 0 | |
| 1 ½ | 1 ½ | 2 | — | 00 | 3-12 | Use Size 0 | | Use Size 0 | | Use Size 0 | |
| ⅛ | ⅛ | ⅓ | ½ | 0 | 0.25-1 | WSCUA32W* | $1,176.65 | WSCUA32F* | $1,293.91 | WSCUA32H* | $2,593.89 |
| ½ | ¾ | 1 ½ | 2 | 0 | 0.75-3.4 | WSCUB32W* | $1,176.65 | WSCUB32F* | $1,293.91 | WSCUB32H* | $2,593.89 |
| 2 | 2 | 5 | 5 | 0 | 3-12 | WSCUC32W* | $1,176.65 | WSCUC32F* | $1,293.91 | WSCUC32H* | $2,593.89 |
| 3 | 3 | — | — | 0 | 5.5-22 | WSCUD32W* | $1,176.65 | WSCUD32F* | $1,293.91 | WSCUD32H* | $2,593.89 |
| ⅛ | ⅛ | ⅓ | ½ | 1 | 0.25-1 | WSDUA32W* | $1,269.65 | WSDUA32F* | $1,397.02 | WSDUA32H* | $2,670.72 |
| ½ | ¾ | 1 ½ | 2 | 1 | 0.75-3.4 | WSDUB32W* | $1,269.65 | WSDUB32F* | $1,397.02 | WSDUB32H* | $2,670.72 |
| 2 | 2 | 5 | 5 | 1 | 3-12 | WSDUC32W* | $1,269.65 | WSDUC32F* | $1,397.02 | WSDUC32H* | $2,670.72 |
| 3 | 3 | 10 | 10 | 1 | 5.5-22 | WSDUD32W* | $1,269.65 | WSDUD32F* | $1,397.02 | WSDUD32H* | $2,670.72 |
| 7 ½ | 7 ½ | — | — | 1 | 10-40 | WSDUE32W* | $1,269.65 | WSDUE32F* | $1,397.02 | WSDUE32H* | $2,670.72 |
| 10 | 10 | 15 | 15 | 1 ¾ | 10-40 | WSEUE32W* | $1,502.15 | WSEUE32F* | $1,651.76 | WSEUE32H* | $2,905.24 |
| 10 | 15 | 25 | 25 | 2 | 13-52 | WSFUF32W* | $2,452.37 | WSFUF32F* | $2,697.00 | WSFUF32H* | $3,677.43 |
| 15 | 20 | 30 | 30 | 2 ½ | 25-100 | WSGUG32W* | $3,107.41 | WSGUG32F* | $3,418.76 | WSGUG32H* | $4,571.15 |
| 25 | 30 | 50 | 50 | 3 | 25-100 | WSHUG32W* | $3,762.46 | WSHUG32F* | $4,138.50 | WSHUG32H* | $6,556.50 |
| 30 | 40 | 75 | 75 | 3 ½ | 50-200 | WSIUH32W* | $6,908.28 | WSIUH32F* | $7,599.72 | WSIUH32H* | $8,169.85 |
| 40 | 50 | 100 | 100 | 4 | 50-200 | WSJUH32W* | $7,530.98 | WSJUH32F* | $8,285.09 | WSJUH32H* | $8,792.54 |
| 75 | 100 | 200 | 200 | 5 | 55-250 | WSLPU32E* | $14,704.11 | — | — | WSLPU32H* | $20,373.07 |
| 150 | 200 | 400 | 400 | 6 | 160-630 | WSMPX32E* | $39,438.07 | — | — | — | — |
| — | 300 | 600 | 600 | 7 | 400-1220 | WSNUN32E* | $39,438.07 | — | — | — | — |
| — | 450 | 900 | 900 | 8 | 400-1220 | WSPUN32E* | $39,438.07 | — | — | — | — |

*Please refer to PAGE 144 for replacement coils

# WORLDWIDE MOTOR CONTROLS

## *NEMA Across-Line Motor Starters*

### *Heavy Duty Motor Starters*

### *With Ambient Compensated Bimetal Overload*



**WSHP32A*81**

## Product Overview

- Ambient compensated bimetal overload protection
- Rugged industrial design
- Half sizes for cost & space savings
- Dual voltage, dual frequency coils
- Large silver cadmium contacts
- Wide range of accessories
- Easy coil access
- Overload test feature
- Gravity dropout

## Applications

Heavy Duty Motor Starters are designed for across the line starting of single phase and polyphase motors. These controls are available in NEMA size 00 through 4.

All starters are supplied with a normally open holding interlock that in conjunction with an appropriate pilot device will provide low voltage protection or release.

| Field Modification Kits / Auxiliary Contact Kits | | | | |
|---|---|---|---|---|
| Class | Size | Type | Model Number | List Price |
| 14,17, 18, 22, 25, 26, 30, 32, 36, 37, 40, 43, 83, 84, 87, 88 | 00-4 | 1 NO | 49AB10 | $116.36 |
| | | 1 NC | 49AB01 | $116.36 |
| | | 1 NC early break | 49AB01EB | $205.45 |
| | | 1 NC late break | 49AB01LB | $205.45 |
| | | 1 NC extra late break | 49AB01XLB | $205.45 |
| | | 2 NO extra late make | 49AB10XLM | $205.45 |
| | | 1 NO & 1 NC | 49AB11 | $234.90 |
| | | 2 NO | 49AB20 | $234.90 |

| Coil Table * | |
|---|---|
| 60 Hz Voltage | Letter |
| 24 Separate Control | J |
| 120 Separate Control | F |
| 110-120/220-240 | A |
| 200-208 | D |
| 220-240 | G |
| 277 | L |
| 220-240/440-480 | C |
| 440-480 | H |
| 550-600 | E |

| HP | | | | NEMA Size | Contactor Amp Rating | Enclosure | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Open | | NEMA 1 | | NEMA 12; NEMA 3/3R | |
| 200 Volts | 230 Volts | 460 Volts | 575 Volts | | | Model Number | List Price | Model Number | List Price | Model Number | List Price |
| Open Type & Standard Width Enclosure - Three-Phase - 3-Pole | | | | | | | | | | | |
| 1 ½ | 1 ½ | 2 | 2 | 00 | 9 | WSBP32A*81 | $420.21 | WSBP32B*81 | $449.00 | Use size 0 | |
| 3 | 3 | 5 | 5 | 0 | 18 | WSCP32A*81 | $529.89 | WSCP32B*81 | $560.39 | WSCP320*81 | $747.76 |
| 7 ½ | 7 ½ | 10 | 10 | 1 | 27 | WSDP32A*81 | $607.49 | WSDP32B*81 | $639.70 | WSDP320*81 | $825.36 |
| 10 | 10 | 15 | 15 | 1 ¾ | 40 | WSEP32A*81 | $840.38 | WSEP32B*81 | $862.53 | WSEP320*81 | $1,048.18 |
| 10 | 15 | 25 | 25 | 2 | 45 | WSFP32A*81 | $1,105.35 | WSFP32B*81 | $1,260.86 | WSFP320*81 | $1,603.47 |
| 15 | 20 | 30 | 30 | 2 ½ | 60 | WSGP32A*81 | $1,446.20 | WSGP32B*81 | $1,664.25 | WSGP320*81 | $2,033.88 |
| 25 | 30 | 50 | 50 | 3 | 90 | WSHP32A*81 | $1,788.77 | WSHP32B*81 | $2,099.75 | WSHP320*81 | $2,504.80 |
| 30 | 40 | 75 | 75 | 3 ½ | 115 | WSIP32A*81 | $3,471.24 | WSIP32B*81 | $4,086.35 | WSIP320*81 | $5,409.65 |
| 40 | 50 | 100 | 100 | 4 | 135 | WSJG32A*81 | $4,092.26 | WSJG32B*81 | $4,746.36 | WSJG320*81 | $6,083.15 |

| HP | | NEMA Size | Contactor Amp Rating | Enclosure | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Open | | NEMA 1 | | NEMA 12; NEMA 3/3R | |
| 115 Volts | 208/230 Volts | | | Model Number | List Price | Model Number | List Price | Model Number | List Price |
| Open Type & Standard Width Enclosure - Single Phase - 2-Pole | | | | | | | | | |
| ⅓ | 1 | 00 | 9 | WSBP12A*81 | $366.21 | WSBP12B*81 | $394.95 | Use Size 0 | |
| 1 | 2 | 0 | 18 | WSCP12A*81 | $474.22 | WSCP12B*81 | $504.67 | WSCP120*81 | $692.04 |
| 2 | 3 | 1 | 27 | WSDP12A*81 | $551.82 | WSDP12B*81 | $584.03 | WSDP120*81 | $769.68 |
| 3 | 5 | 1P | 35 | WSEP12A*81 | $722.26 | WSEP12 B*81 | $747.76 | WSEP120*81 | $931.69 |
| 3 | 7 ½ | 2 | 45 | WSFP12A*81 | $1,002.39 | WSFP12B*81 | $1,159.58 | WSFP120*81 | $1,500.52 |
| 5 | 10 | 2 ½ | 60 | WSGP12A*81 | $1,361.83 | WSGP12B*81 | $1,566.34 | WSGP120*81 | $1,949.51 |

Please refer to heater tables on PAGE 142-143 for heater selection
Three-Phase starters require - 3 heater elements
Single-Phase starters require - 1 heater element
Heaters = List Price $23.63 each

*Please refer to PAGE 144 for replacement coils

Continued On Next Page

# WORLDWIDE MOTOR CONTROLS

## *NEMA Across-Line Motor Starters*

### *Heavy Duty Motor Starters*

### *With Ambient Compensated Bimetal Overload*



**WSHP32A*81**

## Product Overview

- Ambient compensated bimetal overload protection
- Rugged industrial design
- Half sizes for cost & space savings
- Dual voltage, dual frequency coils
- Large silver cadmium contacts
- Wide range of accessories
- Easy coil access
- Overload test feature
- Gravity dropout

## Applications

Heavy Duty Motor Starters are designed for across the line starting of single phase and polyphase motors. These controls are available in NEMA size 00 through 4.

All starters are supplied with a normally open holding interlock that in conjunction with an appropriate pilot device will provide low voltage protection or release.

| Field Modification Kits / Auxiliary Contact Kits | | | | |
|---|---|---|---|---|
| Class | Size | Type | Model Number | List Price |
| 14,17, 18, 22, 25, 26, 30, 32, 36, 37, 40, 43, 83, 84, 87, 88 | 00-4 | 1 NO | 49AB10 | $116.36 |
| | | 1 NC | 49AB01 | $116.36 |
| | | 1 NC early break | 49AB01EB | $205.45 |
| | | 1 NC late break | 49AB01LB | $205.45 |
| | | 1 NC extra late break | 49AB01XLB | $205.45 |
| | | 2 NO extra late make | 49AB10XLM | $205.45 |
| | | 1 NO & 1 NC | 49AB11 | $234.90 |
| | | 2 NO | 49AB20 | $234.90 |

| Coil Table * | |
|---|---|
| 60 Hz Voltage | Letter |
| 24 Separate Control | J |
| 120 Separate Control | F |
| 110-120/220-240 | A |
| 200-208 | D |
| 220-240 | G |
| 277 | L |
| 220-240/440-480 | C |
| 440-480 | H |
| 550-600 | E |

| HP | | | | NEMA Size | Contactor Amp Rating | Enclosure | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | NEMA 4/4x Stainless Steel | | NEMA 4x Fiberglass | | NEMA 7 & 9; NEMA 3 & 4 | |
| 200 Volts | 230 Volts | 460 Volts | 575 Volts | | | Model Number | List Price | Model Number | List Price | Model Number | List Price |
| Open Type & Standard Width Enclosure - Three-Phase - 3-Pole | | | | | | | | | | | |
| 1 ½ | 1 ½ | 2 | 2 | 00 | 9 | Use Size 0 | | Use Size 0 | | Use Size 0 | |
| 3 | 3 | 5 | 5 | 0 | 18 | WSCP32W*81 | $1,105.57 | WSCP32F*81 | $1,215.29 | WSCP32H*81 | $1,610.33 |
| 7 ½ | 7 ½ | 10 | 10 | 1 | 27 | WSDP32W*81 | $1,198.42 | WSDP32F*81 | $1,316.54 | WSDP32H*81 | $1,661.49 |
| 10 | 10 | 15 | 15 | 1 ¾ | 40 | WSEP32W*81 | $1,419.49 | WSEP32F*81 | $1,568.00 | WSEP32H*81 | $1,809.56 |
| 10 | 15 | 25 | 25 | 2 | 45 | WSFP32W*81 | $2,381.59 | WSFP32F*81 | $2,619.58 | WSFP32H*81 | $2,297.36 |
| 15 | 20 | 30 | 30 | 2 ½ | 60 | WSGP32W*81 | $3,016.64 | WSGP32F*81 | $3,304.90 | WSGP32H*81 | $2,873.31 |
| 25 | 30 | 50 | 50 | 3 | 90 | WSHP32W*81 | $3,688.02 | WSHP32F*81 | $4,078.00 | WSHP32H*81 | $4,141.76 |
| 30 | 40 | 75 | 75 | 3 ½ | 115 | WSIP32W*81 | $6,766.75 | WSIP32F*81 | — | WSIP32H*81 | $8,192.00 |
| 40 | 50 | 100 | 100 | 4 | 135 | WSJG32W*81 | $7,453.69 | WSJG32F*81 | $8,236.00 | WSJG32H*81 | $8,755.00 |

| HP | | NEMA Size | Contactor Amp Rating | Enclosure | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | NEMA 4/4X Stainless Steel | | NEMA 4x Fiberglass | | NEMA 7 & 9; NEMA 3 & 4 | |
| 115 Volts | 208/230 Volts | | | Model Number | List Price | Model Number | List Price | Model Number | List Price |
| Open Type & Standard Width Enclosure - Single Phase - 2-Pole | | | | | | | | | |
| ⅓ | 1 | 00 | 9 | Use Size 0 | | Use Size 0 | | Use Size 0 | |
| 1 | 2 | 0 | 18 | WSCP12W*81 | $1,051.76 | WSCP12F*81 | $1,160.00 | WSCP12H*81 | $1,500.34 |
| 2 | 3 | 1 | 27 | WSDP12W*81 | $1,149.00 | WSDP12F*81 | $1,264.00 | WSDP12H*81 | $1,626.66 |
| 3 | 5 | 1P | 35 | WSEP12W*81 | $1,303.05 | WSEP12F*81 | $1,454.00 | WSEP12H*81 | $1,734.45 |
| 3 | 7 ½ | 2 | 45 | WSFP12W*81 | $2,291.00 | WSFP12F*81 | $2,521.00 | WSFP12H*81 | $3,510.00 |
| 5 | 10 | 2 ½ | 60 | WSGP12W*81 | $2,945.48 | WSGP12F*81 | — | WSGP12H*81 | $4,432.00 |

Please refer to heater tables on PAGE 142-143 for heater selection
Three-Phase starters require - 3 heater elements
Single-Phase starters require - 1 heater element
Heaters = List Price $23.63 each

*Please refer to PAGE 144 for replacement coils

# WORLDWIDE MOTOR CONTROLS

## *NEMA Across-Line Motor Starters*

### *Heavy Duty Combination Starters*

### *MCP Type With Solid State Overload ▪ Class 18*



## Product Overview

- Solid state ESP200 overload relay
- Wide range of enclosure types available
- Flexibility with field modifications
- 100 KA short circuit current rating when protected with class R fuses to 600V
- Industrial type disconnect handle
- Visible blade disconnect
- Easy to install

| Field Modification Kits / Auxiliary Contact Kits | | | | |
|---|---|---|---|---|
| Class | Size | Type | Model Number | List Price |
| 14,17, 18, 22, 25, 26, 30, 32, 36, 37, 40, 43, 83, 84, 87, 88 | 00-4 | 1 NO | 49AB10 | $116.36 |
| | | 1 NC | 49AB01 | $116.36 |
| | | 1 NC early break | 49AB01EB | $205.45 |
| | | 1 NC late break | 49AB01LB | $205.45 |
| | | 1 NC extra late break | 49AB01XLB | $205.45 |
| | | 2 NO extra late make | 49AB10XLM | $205.45 |
| | | 1 NO & 1 NC | 49AB11 | $234.90 |
| | | 2 NO | 49AB20 | $234.90 |

| Coil Table * | |
|---|---|
| 60 Hz Voltage | Letter |
| 24 Separate Control | J |
| 120 Separate Control | F |
| 110-120/220-240 | A |
| 200-208 | D |
| 220-240 | G |
| 277 | L |
| 220-240/440-480 | C |
| 440-480 | H |
| 550-600 | E |

| HP | | | | NEMA Size | Breaker Size | Amp Range | Frame (Coil) Size | Enclosure | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | NEMA 1 | | NEMA 4/4X Stainless Steel | |
| 200 Volts | 230 Volts | 460 Volts | 575 Volts | | | | | Model Number | List Price | Model Number | List Price |
| ½ | ½ | 1 | 1 | 0 | 3 | 075.-3.4 | A | CSCUB92B* | $1,336.51 | CSCUB92W* | $2,312.88 |
| 2 | 2 | 5 | 5 | 0 | 10 | 3-12 | A1 | CSCUC92B* | $1,336.51 | CSCUC92W* | $2,312.88 |
| 3 | 3 | — | — | 0 | 25 | 5.5-22 | A1 | CSCUD92B* | $1,336.51 | CSCUD92W* | $2,312.88 |
| ½ | ½ | 1 | 1 | 1 | 3 | 0.75-3.4 | A | CSDUB92B* | $1,387.55 | CSDUB92W* | $2,361.97 |
| 2 | 2 | 5 | 5 | 1 | 10 | 3-12 | A1 | CSDUC92B* | $1,387.55 | CSDUC92W* | $2,361.97 |
| 3 | 3 | 7 ½ | 10 | 1 | 25 | 5.5-22 | A1 | CSDUD92B* | $1,387.55 | CSDUD92W* | $2,361.97 |
| 7 ½ | 7 ½ | 10 | — | 1 | 30 | 10-40 | A1 | CSDUE92B* | $1,387.55 | CSDUE92W* | $2,361.97 |
| — | — | 15 | 15 | — | 40 | 10-40 | A1 | CSEUE92B* | $1,539.67 | CSEUE92W* | $2,517.01 |
| 10 | 15 | 25 | 25 | 2 | 50 | 13-52 | B | CSFUF92B* | $4,212.66 | CSFUF92W* | $3,451.17 |
| 15 | 20 | 30 | 30 | — | 100 | 25-100 | B | CSGUG92B* | $2,585.69 | CSGUG92W* | $5,208.68 |
| 25 | 30 | 50 | 50 | 3 | 100 | 25-100 | B | CSHUG92B* | $2,809.43 | CSHUG92W* | $5,432.41 |
| 30 | 40 | 75 | 75 | — | 125 | 50-200 | B | CSIUH92B* | $5,706.19 | CSIUH92W* | $9,060.23 |
| 40 | 50 | 100 | 100 | 4 | 150 | 50-200 | B | CSJUH92B* | $6,113.42 | CSJUH92W* | $9,466.49 |
| 50 | 75 | 150 | 200 | 5 | 250 | 55-250 | — | CSLPT92B* | $14,117.79 | CSLPT92W* | $23,371.34 |
| 75 | 100 | 200 | — | 5 | 400 | 55-250 | — | CSLPU92B* | $14,117.79 | CSLPU92E* | $23,371.34 |
| 100 | 125 | 250 | 300 | 6 | 400 | 160-630 | — | CSMPW92B* | $29,903.77 | CSMPW92E* | $34,922.08 |
| 150 | 200 | 400 | 400 | 6 | 600 | 160-630 | — | CSMPX92B* | $30,600.49 | CSMPX93E* | $35,616.83 |
| — | 250 | 500 | 500 | 7 | 800 | 400-1220 | A1+CT | CSNUV92B* | $41,312.23 | — | — |
| — | 300 | 600 | 600 | 7 | 1000 | 400-1200 | A1+CT | CSNUY92B* | $41,312.23 | — | — |
| — | 400 | 800 | 800 | 8 | 1200 | 400-1220 | A1+CT | CSPUW92B* | $61,454.15 | — | — |
| — | 450 | 900 | 900 | 8 | 1600 | 400-1220 | A1+CT | CSPUZ92B* | $61,454.15 | — | — |

*Please refer to PAGE 144 for replacement coils
Continued On Next Page

# WORLDWIDE MOTOR CONTROLS

## *NEMA Across-Line Motor Starters*

### *Heavy Duty Combination Starters*

### *MCP Type With Solid State Overload ▪ Class 18*



## Product Overview

- Solid state ESP200 overload relay
- Wide range of enclosure types available
- Flexibility with field modifications
- 100 KA short circuit current rating when protected with class R fuses to 600V
- Industrial type disconnect handle
- Visible blade disconnect
- Easy to install

| Field Modification Kits / Auxiliary Contact Kits | | | | |
|---|---|---|---|---|
| Class | Size | Type | Model Number | List Price |
| 14,17, 18, 22, 25, 26, 30, 32, 36, 37, 40, 43, 83, 84, 87, 88 | 00-4 | 1 NO | 49AB10 | $116.36 |
| | | 1 NC | 49AB01 | $116.36 |
| | | 1 NC early break | 49AB01EB | $205.45 |
| | | 1 NC late break | 49AB01LB | $205.45 |
| | | 1 NC extra late break | 49AB01XLB | $205.45 |
| | | 2 NO extra late make | 49AB10XLM | $205.45 |
| | | 1 NO & 1 NC | 49AB11 | $234.90 |
| | | 2 NO | 49AB20 | $234.90 |

| Coil Table * | |
|---|---|
| 60 Hz Voltage | Letter |
| 24 Separate Control | J |
| 120 Separate Control | F |
| 110-120/220-240 | A |
| 200-208 | D |
| 220-240 | G |
| 277 | L |
| 220-240/440-480 | C |
| 440-480 | H |
| 550-600 | E |

| HP | | | | NEMA Size | Breaker Size | Amp Range | Frame Size | Enclosure | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | NEMA 4X Fiberglass | | NEMA 7 & 9 NEMA 3 & 4 | | NEMA 12 NEMA 3/3R | |
| 200 Volts | 230 Volts | 460 Volts | 575 Volts | | | | | Model Number | List Price | Model Number | List Price | Model Number | List Price |
| ½ | ½ | 1 | 1 | 0 | 3 | 075.-3.4 | A | CSCUB92F* | $2,545.47 | CSCUB92H* | $2,758.40 | CSCUB92N* | $1,580,85 |
| 2 | 2 | 5 | 5 | 0 | 10 | 3-12 | A1 | CSCUC92F* | $2,545.47 | CSCUC92H* | $2,758.40 | CSCUC92N* | $1,580,85 |
| 3 | 3 | — | — | 0 | 25 | 5.5-22 | A1 | CSCUD92F* | $2,545.47 | CSCUD92H* | $2,758.40 | CSCUD92N* | $1,580.85 |
| ½ | ½ | 1 | 1 | 1 | 3 | 0.75-3.4 | A | CSDUB92F* | $2,600.39 | CSDUB92H* | $2,823.15 | CSDUB92N* | $1,631.90 |
| 2 | 2 | 5 | 5 | 1 | 10 | 3-12 | A1 | CSDUC92F* | $2,600.39 | CSDUC92H* | $2,823.15 | CSDUC92N* | $1,631.90 |
| 3 | 3 | 7 ½ | 10 | 1 | 25 | 5.5-22 | A1 | CSDUD92F* | $2,600.39 | CSDUD92H* | $2,823.15 | CSDUD92N* | $1,631.90 |
| 7 ½ | 7 ½ | 10 | — | 1 | 30 | 10-40 | A1 | CSDUE92F* | $2,600.39 | CSDUE92H* | $2,823.15 | CSDUE92N* | $1,631.90 |
| — | — | 15 | 15 | — | 40 | 10-40 | A1 | CSEUE92F* | $2,767.23 | CSEUE92H* | $3,618.97 | CSEUE92N* | $1,783.99 |
| 10 | 15 | 25 | 25 | 2 | 50 | 13-52 | B | CSFUF92F* | $3,796.61 | CSFUF92H* | $3,756.37 | CSFUF92N* | $2,298.19 |
| 15 | 20 | 30 | 30 | — | 100 | 25-100 | B | CSGUG92F* | $5,728.76 | CSGUG92H* | $3,756.37 | CSGUG92N* | $3,036.11 |
| 25 | 30 | 50 | 50 | 3 | 100 | 25-100 | B | CSHUG92F* | $2,809.43 | CSHUG92H* | $6,176.23 | CSHUG92N* | $3,225.91 |
| 30 | 40 | 75 | 75 | — | 125 | 50-200 | B | CSIUH92F* | $9,965.96 | CSIUH92H* | $7,961.19 | CSIUH92N* | $6,946.54 |
| 40 | 50 | 100 | 100 | 4 | 150 | 50-200 | B | CSJUH92F* | $10,413.43 | CSJUH92H* | $9,598.96 | CSJUH92N* | $7,352.79 |
| 50 | 75 | 150 | 200 | 5 | 250 | 55-250 | — | — | — | CSLPT92H* | $20,809.19 | CSLPT92N* | $16,352.18 |
| 75 | 100 | 200 | — | 5 | 400 | 55-250 | — | — | — | CSLPU92H* | $20,809.19 | CSLPU92N* | $16,352.18 |
| 100 | 125 | 250 | 300 | 6 | 400 | 160-630 | — | — | — | — | — | CSMPW92N* | $31,093.09 |
| 150 | 200 | 400 | 400 | 6 | 600 | 160-630 | — | — | — | — | — | CSMPX92N* | $33,345.15 |
| — | 250 | 500 | 500 | 7 | 800 | 400-1220 | A1+CT | — | — | — | — | CSNUV92N* | $44,816.41 |
| — | 300 | 600 | 600 | 7 | 1000 | 400-1200 | A1+CT | — | — | — | — | CSNUY92N* | $44,816.41 |
| — | 400 | 800 | 800 | 8 | 1200 | 400-1220 | A1+CT | — | — | — | — | CSPUW92N* | $64,196.85 |
| — | 450 | 900 | 900 | 8 | 1600 | 400-1220 | A1+CT | — | — | — | — | CSPUZ92N* | $64,196.85 |

*Please refer to PAGE 144 for replacement coils

# WORLDWIDE MOTOR CONTROLS

## *NEMA Across-Line Motor Starters*

### *Heavy Duty Duplex Controllers*

### *Combination Circuit Breaker ▪ Class 84*



| Coil Table * | |
|---|---|
| 60 Hz Voltage | Letter |
| 24 Separate Control | J |
| 120 Separate Control | F |
| 110-120/220-240 | A |
| 200-208 | D |
| 220-240 | G |
| 277 | L |
| 220-240/440-480 | C |
| 440-480 | H |
| 550-600 | E |

## Product Overview

- Heavy Duty NEMA starters
- Solid State ESP200 overload relay
- Available fusible or MCPT
- Heavy duty disconnect handle
- Flexibility with field modifications
- Alternator transfer on de-energization
- Heavy Duty NEMA starters

Duplex Heavy Duty Controllers are designed to perform duplexing and alternation.

The duplexing function provides capacity for system peaking or above normal demand without having the full motor capacity spinning at all times. It also provides standby capacity for use when one of the motors or pumps is disabled.

The alternation function reverses the lead and lag mode for the two motors in a duplex system. Upon alternation, the first motors becomes the lag motor and the second motor assumes the lead function. The alternation function equalizes wear on the two machines and extends the life of seals and bearings.

| Field Modification Kits / Auxiliary Contact Kits | | | | |
|---|---|---|---|---|
| Class | Size | Type | Model Number | List Price |
| 14,17, 18, 22, 25, 26, 30, 32, 36, 37, 40, 43, 83, 84, 87, 88 | 00-4 | 1 NO | 49AB10 | $116.36 |
| | | 1 NC | 49AB01 | $116.36 |
| | | 1 NC early break | 49AB01EB | $205.45 |
| | | 1 NC late break | 49AB01LB | $205.45 |
| | | 1 NC extra late break | 49AB01XLB | $205.45 |
| | | 2 NO extra late make | 49AB10XLM | $205.45 |
| | | 1 NO & 1 NC | 49AB11 | $234.90 |
| | | 2 NO | 49AB20 | $234.90 |

| 2 Motor Circuit Protectors (with Solid-State Overload) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HP | | | | NEMA Size | Breaker Size | Amp Range | Frame Size | Enclosure | | | |
| | | | | | | | | NEMA 1 | | NEMA 4/4X Stainless Steel | |
| 200 Volts | 230 Volts | 460 Volts | 575 Volts | | | | | Model Number | List Price | Model Number | List Price |
| ⅛ | ⅛ | ⅓ | ½ | 0 | 3 | 0.25-1 | A | DSCUA92BDF | $2,246.20 | DSCUA92WDF | $2,744.78 |
| ½ | ¾ | 1 ½ | 2 | 0 | 3 | 0.75-3.4 | A | DSCUB92BDF | $2,246.20 | DSCUB92WDF | $2,744.78 |
| 2 | 2 | 5 | 5 | 0 | 10 | 3-12 | A1 | DSCUC92BDF | $2,246.20 | DSCUC92WDF | $2,744.78 |
| 3 | 3 | — | — | 0 | 25 | 5.5-22 | A1 | DSCUD9BDF | $2,246.20 | DSCUD92WDF | $2,744.78 |
| ⅛ | ⅛ | ⅓ | ½ | 1 | 3 | 0.25-1 | A | DSDUA92BDF | $2,388.96 | DSDUA92WDF | $2,837.04 |
| ½ | ¾ | 1 ½ | 2 | 1 | 3 | 0.75-3.4 | A | DSDUB92BDF | $2,388.96 | DSDUB92WDF | $2,837.04 |
| 2 | 2 | 5 | 5 | 1 | 10 | 3-12 | A1 | DSDUC92BDF | $2,388.96 | DSDUC92WDF | $2,837.04 |
| 3 | 3 | 10 | 10 | 1 | 25 | 5.5-22 | A1 | DSDUD92BDF | $2,388.96 | DSDUD92WDF | $2,837.04 |
| 7 ½ | 7 ½ | — | — | 1 | 30 | 10-40 | A1 | DSDUE92BDF | $2,388.96 | DSDUE92WDF | $2,837.04 |
| — | — | 15 | 15 | — | 40 | 10-40 | A1 | DSEUE92BDF | $3,092.52 | DSEUE92WDF | $3,092.51 |
| 10 | 15 | 25 | 25 | 2 | 50 | 13-52 | B | DSFUF92BDF | $3,429.76 | DSFUF92WDF | $3,092.51 |
| 15 | 20 | 30 | 30 | — | 100 | 25-100 | B | DSGUG92BDF | $4,937.50 | DSGUG92WDF | $5,759.75 |
| 20 | 25 | 50 | 50 | 3 | 100 | 25-100 | B | DSHUG92BDF | $5,310.12 | DSHUG92WDF | $5,765.95 |
| 30 | 40 | 75 | 75 | — | 125 | 50-200 | B | DSIUH92BDF | PLEASE CALL FOR PRICING | DSIUH92WDF | PLEASE CALL FOR PRICING |
| 40 | 50 | 100 | 100 | 4 | 150 | 50-200 | B | DSJUH92BDF | | DSJUH92WDF | |

*Please refer to PAGE 144 for replacement coils
Continued On Next Page

# WORLDWIDE MOTOR CONTROLS

## *NEMA Across-Line Motor Starters*

### *Heavy Duty Duplex Controllers*

### *Combination Circuit Breaker ▪ Class 84*



| Coil Table * | |
|---|---|
| 60 Hz Voltage | Letter |
| 24 Separate Control | J |
| 120 Separate Control | F |
| 110-120/220-240 | A |
| 200-208 | D |
| 220-240 | G |
| 277 | L |
| 220-240/440-480 | C |
| 440-480 | H |
| 550-600 | E |

| Field Modification Kits / Auxiliary Contact Kits | | | | |
|---|---|---|---|---|
| Class | Size | Type | Model Number | List Price |
| 14,17, 18, 22, 25, 26, 30, 32, 36, 37, 40, 43, 83, 84, 87, 88 | 00-4 | 1 NO | 49AB10 | $116.36 |
| | | 1 NC | 49AB01 | $116.36 |
| | | 1 NC early break | 49AB01EB | $205.45 |
| | | 1 NC late break | 49AB01LB | $205.45 |
| | | 1 NC extra late break | 49AB01XLB | $205.45 |
| | | 2 NO extra late make | 49AB10XLM | $205.45 |
| | | 1 NO & 1 NC | 49AB11 | $234.90 |
| | | 2 NO | 49AB20 | $234.90 |

## Product Overview

- Heavy Duty NEMA starters
- Solid State ESP200 overload relay
- Available fusible or MCPT
- Heavy duty disconnect handle
- Flexibility with field modifications
- Alternator transfer on de-energization
- Heavy Duty NEMA starters

Duplex Heavy Duty Controllers are designed to perform duplexing and alternation.

The duplexing function provides capacity for system peaking or above normal demand without having the full motor capacity spinning at all times. It also provides standby capacity for use when one of the motors or pumps is disabled.

The alternation function reverses the lead and lag mode for the two motors in a duplex system. Upon alternation, the first motors becomes the lag motor and the second motor assumes the lead function. The alternation function equalizes wear on the two machines and extends the life of seals and bearings.

| 2 Motor Circuit Protectors (with Solid-State Overload) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| HP | | | | NEMA Size | Breaker Size | Amp Range | Frame Size | Enclosure | | | |
| | | | | | | | | NEMA 4 Painted | | NEMA 12 NEMA 3/3R | |
| 200 Volts | 230 Volts | 460 Volts | 575 Volts | | | | | Model Number | List Price | Model Number | List Price |
| ⅙ | ⅙ | ⅓ | ½ | 0 | 3 | 0.25-1 | A | DSCUA92EDF | $4,082.23 | DSCUA92ODF | $2,744.28 |
| ½ | ¾ | 1 ½ | 2 | 0 | 3 | 0.75-3.4 | A | DSCUB92EDF | $4,082.23 | DSCUB92ODF | $2,744.28 |
| 2 | 2 | 5 | 5 | 0 | 10 | 3-12 | A1 | DSCUC92EDF | $4,082.23 | DSCUC92ODF | $2,744.28 |
| 3 | 3 | — | — | 0 | 25 | 5.5-22 | A1 | DSCUD92EDF | $4,082.23 | DSCUD92ODF | $2,744.28 |
| ⅙ | ⅙ | ⅓ | ½ | 1 | 3 | 0.25-1 | A | DSDUA92EDF | $4,174.97 | DSDUA92ODF | $2,837.04 |
| ½ | ¾ | 1 ½ | 2 | 1 | 3 | 0.75-3.4 | A | DSDUB92EDF | $4,174.97 | DSDUB92ODF | $2,837.04 |
| 2 | 2 | 5 | 5 | 1 | 10 | 3-12 | A1 | DSDUC92EDF | $4,174.97 | DSDUC92ODF | $2,837.04 |
| 3 | 3 | 10 | 10 | 1 | 25 | 5.5-22 | A1 | DSDUD92EDF | $4,174.97 | DSDUD92ODF | $2,837.04 |
| 7 ½ | 7 ½ | — | — | 1 | 30 | 10-40 | A1 | DSDUE92EDF | $4,174.97 | DSDUE92ODF | $2,837.04 |
| — | — | 15 | 15 | — | 40 | 10-40 | A1 | DSEUE92EDF | PLEASE CALL FOR PRICING | DSEUE92ODF | $3,092.51 |
| 10 | 15 | 25 | 25 | 2 | 50 | 13-52 | B | DSFUF92EDF | | DSFUF92ODF | $3,092.51 |
| 15 | 20 | 30 | 30 | — | 100 | 25-100 | B | DSGUG92EDF | | DSGUG92ODF | $5,759.75 |
| 20 | 25 | 50 | 50 | 3 | 100 | 25-100 | B | DSHUG92EDF | | DSHUG92ODF | $5,765.96 |
| 30 | 40 | 75 | 75 | — | 125 | 50-200 | B | DSIUH92EDF | | DSIUH92ODF | PLEASE CALL FOR PRICING |
| 40 | 50 | 100 | 100 | 4 | 150 | 50-200 | B | DSJUH92EDF | | DSJUH92ODF | |

*Please refer to PAGE 144 for replacement coils

# WORLDWIDE MOTOR CONTROLS

## *NEMA Across-Line Motor Starters*

### *Irrigation Pump Panels*





## Product Overview

- Heavy duty NEMA starters
- Fully gasketed NEMA 3R rainproof enclosures
- 100 KA interrupting capacity with class R fuses
- Solid state or ambient compensated bi-metal overload relays
- Copper grounding lug for three #6 wires
- Heavy duty disconnect handle
- Bold pilot legend
- Generous accessory space
- CSA certified file #LR6535
- UL listed for outdoor use and service equipment file #E14900

| HP | | | | Solid State Overload | | | | | Ambient Compensated Overload | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 200 Volts | 230 Volts | 460 Volts | 575 Volts | NEMA Size | Amp Range | Breaker Size | Model Number | List Price | Breaker Size | Model Number | List Price |
| Fusible Disconnect | | | | | | | | | | | |
| — | — | 7.5 | 10 | 1 | 5.5-22 | 30 | IPP1-460-ESP2** | $ 1,160.57 | 30 | IPP1-460 | $ 1,034.74 |
| 7.5 | 7.5 | — | — | 1 | 10-40 | 30 | IPP1-230-ESP2** | $ 1,160.57 | 30 | IPP1-230 | $ 1,034.74 |
| — | — | 15 | 15 | 1.75 | 10-40 | 30 | IPP1.75-460-ESP2** | $ 1,362.59 | 30 | IPP1.75-460 | $ 1,221.26 |
| 10 | 10 | — | — | 1.75 | 10-40 | 60 | IPP1.75-230-ESP2** | $ 1,362.59 | 60 | IPP1.75-230 | $ 1221.26 |
| — | — | 25 | 25 | 2 | 13-52 | 60 | IPP2-460-ESP2** | $ 1,564.54 | 60 | IPP2-460 | $ 1,408.81 |
| 10 | 15 | — | — | 2 | 13-52 | 60 | IPP2-230-ESP2** | $ 1,538.30 | 60 | IPP2-230 | $ 1,384.57 |
| — | — | 30 | 30 | 2.5 | 13-52 | 60 | IPP2.5-460-ESP2** | $ 2,001.22 | 60 | IPP2.5-460 | $ 1,994.67 |
| 15 | 20 | — | — | 2.5 | 25-100 | 60 | IPP2.5-230-ESP2** | $ 2,001.22 | 100 | IPP2.5-230 | $ 2,035.15 |
| — | — | 50 | 50 | 3 | 25-100 | 100 | IPP3-460-ESP2** | $ 2,260.94 | 100 | IPP3-460 | $ 2,258.28 |
| 20 | 25 | — | — | 3 | 25-100 | 100 | IPP3-230-ESP2** | $ 2,260.94 | 100 | IPP3-230 | $ 2,210.54 |
| — | — | 75 | 75 | 3.5 | 50-200 | 200 | IPP3.5-460-ESP2** | $ 3,844.94 | 200 | IPP3.5-460 | $ 3,865.85 |
| 30 | 40 | — | — | 3.5 | 50-200 | 200 | IPP3.5-230-ESP2** | $ 3,844.94 | 200 | IPP3.5-230 | $ 3,865.85 |
| — | — | 100 | 100 | 4 | 50-200 | 200 | IPP4-460-ESP2** | $ 4,159.91 | 200 | IPP4-460 | $ 4,185.5 |
| 40 | 50 | — | — | 4 | 50-200 | 200 | IPP4-230-ESP2** | $4,128.19 | 200 | IPP4-230 | $ 4,153.33 |
| — | — | 200 | 200 | 5 | 55-250 | 400 | IPP5-460-ESP2 | $ 9,043.80 | — | — | — |
| 75 | 100 | — | — | 5 | 55-250 | 400 | IPP5-230-ESP2 | $9,034.80 | — | — | — |
| — | — | 250 | — | 6 | 160-630 | 600 | IPP6-460-ESP2 | $21,464.44 | — | — | — |
| Circuit Breaker | | | | | | | | | | | |
| 7.5 | 7.5 | 10 | — | 1 | 10-40 | 30 | IPPCB1-230/460-ESP2 | $1,459.59 | 30<br>30 | IPPCB1-230<br>IPPCB1-460 | $1,232.17<br>$1,232.17 |
| — | — | 15 | 15 | 1.75 | 10-40 | 30 | IPPCB1.75-460-ESP2 | $1,635.30 | 30<br>50 | IPPCB1.75-460<br>IPPCB1.75-230 | $1,384.70<br>$1,384.70 |
| 10 | 15 | 25 | 25 | 2 | 13-52 | 50 | IPPCB2-230/460-ESP2 | $1,811.05 | 50 | IPPCB2-230/460 | $1,537.24 |
| 15 | 20 | 30 | 30 | 2.5 | 25-100 | 100 | IPPCB2.5-230/460-ESP2 | $2,118.84 | 50<br>100 | IPPCB2.5-460<br>IPPCB2.5-230 | $1,988.16<br>$1,988.16 |
| 25 | 30 | 50 | 50 | 3 | 25-100 | 100 | IPPCB3-230/460-ESP2 | $ 2,292.66 | 100 | IPPCB3-230/460 | $2,153.02 |
| 30 | 40 | 75 | 75 | 3.5 | 50-200 | 125 | IPPCB3.5-230/460-ESP2 | $ 4,538.28 | 125 | IPP3.5-230/460 | $4,295.79 |
| 40 | 50 | 100 | 100 | 4 | 50-200 | 150 | IPPCB4-230/460-ESP2 | $ 4,853.20 | 150 | IPPCB4-230/460 | $4,595.79 |
| 75 | 100 | 200 | 200 | 5 | 55-250 | 400 | IPPCB5-460-ESP | $10,374.64 | — | — | — |
| — | — | 250 | 300 | 6 | 160-630 | 400 | IPPCB6-460-ESP | $22,706.62 | — | — | — |

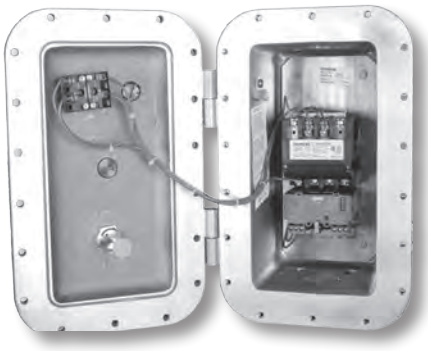
** Dual voltage 230/460 coil
Please refer to heater tables on PAGE 142-143 for heater selection
Please refer to PAGE 144 for replacement coils
Size 1-4 will be provided with 230/460 volt coil as a standard

# WORLDWIDE MOTOR CONTROLS

## *NEMA Across-Line Motor Starters*

### *NEMA Heavy Duty Explosion Proof Starters With Start/Stop Pushbuttons Installed*





## Product Overview

- Nema 7 & 9 / 3 & 4 enclosure
- Heavy duty NEMA starters
- Start/stop button
- Bold pilot legend
- Solid state esp200 overload relay
- Through door overload reset button
- 230/460 Dual voltage, 50/60 hertz dual frequency coils
- True phase loss protection - trips within three seconds
- Phase unbalanced prevents motor running inefficiently
- Provide improved starter performance
- Ground fault trip when selected
- Selectable trip class - 5, 10, 20 or 30
- Reset trip can be selected auto / manual reset
- Overload is self powered, no need for external power source
- Easy to select and use, dip switch selectable
- Rugged industrial design

| HP | | | | NEMA Size | Amp Range | NEMA 7 & 9/3 & 4 Explosion Proof | |
|---|---|---|---|---|---|---|---|
| 200 Volts | 230 Volts | 460 Volts | 575 Volts | | | Model Number | List Price |
| ⅛ | ⅛ | ⅓ | ½ | 0 | 0.25-1 | WSCUA32HCA1 | $1,953.00 |
| ½ | ¾ | 1 ½ | 2 | 0 | 0.75-3.4 | WSCUB32HCA1 | $1,953.00 |
| 2 | 2 | 5 | 5 | 0 | 3-12 | WSCUC32HCA1 | $1,953.00 |
| 3 | 3 | — | — | 0 | 5.5-22 | WSCUD32HCA1 | $1,953.00 |
| ⅛ | ⅛ | ⅓ | ½ | 1 | 0.25-1 | WSDUA32HCA1 | $2,002.85 |
| ½ | ¾ | 1 ½ | 2 | 1 | 0.75-3.4 | WSDUB32HCA1 | $2,002.85 |
| 2 | 2 | 5 | 5 | 1 | 3-12 | WSDUC32HCA1 | $2,002.85 |
| 3 | 3 | 10 | 10 | 1 | 5.5-22 | WSDUD32HCA1 | $2,002.85 |
| 7 ½ | 7 ½ | — | — | 1 | 10-40 | WSDUE32HCA1 | $2,002.85 |
| 10 | 10 | 15 | 15 | 1 ¾ | 10-40 | WSEUE32HCA1 | $2,150.47 |
| 10 | 15 | 25 | 25 | 2 | 13-52 | WSFUF32HCA1 | $2,634.18 |
| 15 | 20 | 30 | 30 | 2 ½ | 25-100 | WSGUG32HCA1 | $3,092.43 |
| 25 | 30 | 50 | 50 | 3 | 25-100 | WSHUG32HCA1 | $4,462.10 |
| 30 | 40 | 75 | 75 | 3 ½ | 50-200 | WSIUH32HCA1 | $5,480.22 |
| 40 | 50 | 100 | 100 | 4 | 50-200 | WSJUH32HCA1 | $5,875.16 |

# WORLDWIDE MOTOR CONTROLS

## *NEMA Across-Line Motor Starters*

### *ESP200 Solid State Electronic Overload Relays*




## Product Overview

- Selectable Trip Classes: 5, 10, 20 and 30
- Manual, automatic, and remote reset
- Phase loss protection - trips in less than 3 seconds
- Phase unbalance protection - trips based on trip class selected (minimize temperature rise of the motor on a asymmetrical three-phase system)
- Thermal memory (prevents restarting the motor when it is hot)
- Ground fault protection - trips 60% of motor current
- Ambient insensitive (prevents nuisance tripping)
- FLA dial with wide adjustment range - 4:1 ratio
- One NO and one NC contacts standard
- Self-powered - no separate source required
- Self protected in short circuit condition
- No heaters required (saves cost and eliminates time for installation)
- Test button - tests electronics
- Conformally coated circuit board
- Repeat trip accuracy <1%
- Visible trip indicator
- DIN Rail Mounted
- Touch-safe terminals
- Removable terminals

| Full Load Amp Range | Frame Size | New Model Number | Old Model Number | List Price |
|---|---|---|---|---|
| Three-Phase | | | | |
| 0.25-1 | A | 3UB81134AB2 | 48ATA3S00 | $225.60 |
| 0.75-1 | A | 3UB81134BB2 | 48ATB3S00 | $225.60 |
| 3-12 | A1 | 3UB81234CW2 | 48ATC3S00 | $229.47 |
| 5.5-22 | A1 | 3UB81234DW2 | 48ATD3S00 | $229.47 |
| 10-40 | A1 | 3UB81234EW2 | 48ATE3S00 | $229.47 |
| 13-52 | B | 3UB81334FW2 | 48BTF3S00 | $326.15 |
| 25-100 | B | 3UB81334GW2 | 48BTG3S00 | $379.01 |
| 50-200 | B | 3UB81334HW2 | 48BTH3S00 | $515.65 |
| 100-300 | A1 (1) | 3UB81234JW2 | 48ATJ3S00 | $268.14 |
| 133-400 | A1 (2) | 3UB81234KW2 | 48ATK3S00 | $268.14 |
| 200-600 | A1 (3) | 3UB81234LW2 | 48ATL3S00 | $268.14 |
| 250-750 | A1 (4) | 3UB81234MW2 | 48ATM3S00 | $268.14 |
| 400-1220 | A1 (5) | 3UB81234NW2 | 48ATN3S00 | $268.14 |
| Single-Phase | | | | |
| 0.25-1 | A | 3UB88134AB2 | 48ATA1S00 | $211.42 |
| 0.75-3.4 | A | 3UB88134BB2 | 48ATB1S00 | $211.42 |
| 3-12 | A1 | 3UB88234CW2 | 48ATC1S00 | $215.29 |
| 5.5-22 | A1 | 3UB88234DW2 | 48ATD1S00 | $215.29 |

The field selectable Trip Class 5, 10, 20 or 30 can easily be set by 2 DIP switches. This eliminates the guess factor of application requirements and provides reduced inventory for multiple applications.

ESP200 has a 4:1 current adjustment range with a fine adjustment dial labelled in full load amps. The heater-less overload minimizes the heat trapped in the enclosures, reduces cost for ventilation or cooling. Easily accessible reset button provides visible and audible indications to ensure the tripped overload is ready to restart.

ESP200 can be directly coupled to the contactors or remotely mounted. In addition to the NEMA contactor applications, it also can be used with other types of controllers for applications requiring DP or IEC contactors.

(1) Requires use of 300:5 current transformers - 3 of 97CT005
(2) Requires use of 600:5 current transformers - 3 of 97CT008
(3) Requires use of 1200:5 current transformers - 3 of 97CT012
(4) Requires use of 750:5 current transformers - 3 of 97CT009
(5) Requires use of 400:5 current transformers - 3 of 97CT006

# WORLDWIDE MOTOR CONTROLS

## *NEMA Across-Line Motor Starters*

### *Overload Relay Heater Tables*

### *Irrigation Pump Panels & Heavy Duty Starters*

| Bi-Metal Standard Trip | | | | | | |
|---|---|---|---|---|---|---|
| Full Load Amps | | | | | Model Number | List Price |
| Size 00, 0, 1 | Size 1 ¾ | Size 2, 2 ½ | Size 3, 3 ½ | Size 4 | | |
| Trip Class 20 - For Class 83, 84 and 87 | | | | | | |
| 0.38-0.40 | — | — | — | — | E6 | $23.63 |
| 0.41-0.43 | — | — | — | — | E7 | $23.63 |
| 0.44-0.48 | — | — | — | — | E8 | $23.63 |
| 0.49-0.53 | — | — | — | — | E9 | $23.63 |
| 0.54-0.57 | — | — | — | — | E11 | $23.63 |
| 0.58-0.62 | — | — | — | — | E12 | $23.63 |
| 0.63-0.66 | — | — | — | — | E13 | $23.63 |
| 0.67-0.72 | — | — | — | — | E14 | $23.63 |
| 0.73-0.80 | — | — | — | — | E16 | $23.63 |
| 0.81-0.85 | — | — | — | — | E17 | $23.63 |
| 0.86-0.92 | — | — | — | — | E18 | $23.63 |
| 0.93-0.99 | — | — | — | — | E19 | $23.63 |
| 1.00-1.08 | — | — | — | — | E23 | $23.63 |
| 1.09-1.23 | — | — | — | — | E24 | $23.63 |
| 1.24-1.37 | — | — | — | — | E25 | $23.63 |
| 1.38-1.54 | — | — | — | — | E27 | $23.63 |
| 1.55-1.69 | — | — | — | — | E28 | $23.63 |
| 1.70-1.80 | — | — | — | — | E29 | $23.63 |
| 1.81-1.94 | — | — | — | — | E31 | $23.63 |
| 1.95-2.07 | — | — | — | — | E32 | $23.63 |
| 2.08-2.26 | — | — | — | — | E33 | $23.63 |
| 2.27-2.54 | 2.27-2.54 | — | — | — | E34 | $23.63 |
| 2.55-2.69 | 2.55-2.69 | — | — | — | E36 | $23.63 |
| 2.70-2.88 | 2.70-2.88 | — | — | — | E37 | $23.63 |
| 2.89-3.14 | 2.89-3.14 | — | — | — | E38 | $23.63 |
| 3.15-3.40 | 3.15-3.41 | — | — | — | E39 | $23.63 |
| 3.41-3.81 | 3.41-3.81 | — | — | — | E41 | $23.63 |
| 3.82-4.26 | 3.82-4.25 | — | — | — | E42 | $23.63 |
| 4.27-4.62 | 4.26-4.62 | — | — | — | E44 | $23.63 |
| 4.63-5.09 | 4.63-5.09 | — | — | — | E46 | $23.63 |
| 5.10-5.61 | 5.10-5.61 | — | — | — | E47 | $23.63 |
| 5.62-5.91 | 5.62-5.91 | — | — | — | E48 | $23.63 |
| 5.92-6.15 | 5.92-6.15 | — | — | — | E49 | $23.63 |
| 6.16-6.70 | 6.16-6.70 | — | — | — | E50 | $23.63 |
| 6.71-7.54 | 6.71-7.54 | — | — | — | E51 | $23.63 |
| 7.55-8.29 | 7.55-8.29 | — | — | — | E52 | $23.63 |
| 8.30-8.99 | 8.30-8.99 | — | — | — | E53 | $23.63 |
| 9.00-9.85 | 9.00-9.85 | — | — | — | E54 | $23.63 |
| 9.86-10.4 | 9.86-10.4 | — | — | — | E55 | $23.63 |
| 10.5-12.0 | 10.5-12.0 | 10.5-12.0 | — | — | E56 | $23.63 |
| 12.1-13.6 | 12.1-13.6 | 12.1-13.6 | — | — | E57 | $23.63 |
| 13.7-15.6 | 13.7-15.6 | 13.7-15.6 | — | — | E60 | $23.63 |
| 15.7-17.0 | 15.7-17.0 | 15.7-17.1 | — | — | E61 | $23.63 |
| 17.1-18.4 | 17.1-19.4 | 17.2-19-4 | — | — | E62 | $23.63 |
| 18.5-19.4 | 19.5.20.9 | 19.5-20.9 | — | — | E65 | $23.63 |

## Product Overview

Heaters provide a maximum trip rating of 125% of minimum motor amperes for 40°C motors (service factor 1.15). For other motors (service factor 1.0), select the next lower listed heater catalog number within the designated table which provides a maximum trip rating of approximately 115%.

Overload relays do not provide against short circuits. To ensure proper coordination with short circuit protective device, select heaters from the information packaged with the controls device.

| Bi-Metal Standard Trip | | | | | | |
|---|---|---|---|---|---|---|
| Full Load Amps | | | | | Model Number | List Price |
| Size 00, 0, 1 | Size 1 ¾ | Size 2, 2 ½ | Size 3, 3 ½ | Size 4 | | |
| Trip Class 20 - For Class 83, 84 and 87 | | | | | | |
| 19.5-21.3 | 21.0-2.2 | 21.0-22.2 | — | — | E66 | $23.63 |
| 21.4-24.4 | 22.3-25.3 | 22.3-25.3 | — | — | E67 | $23.63 |
| 24.5-25.9 | 25.4-26.9 | 25.4-26.9 | 30.0-33.5 | — | E69 | $23.63 |
| 26.0-27.0 | 27.0-30.2 | 27.0-30.2 | 33.6-36.4 | — | E70 | $23.63 |
| — | — | — | 36.5-39.6 | — | E71 | $23.63 |
| — | 30.3-33.3 | 30.3-33.3 | — | — | E72 | $23.63 |
| — | 33.4-36.0 | 33.4-35.3 | 39.7-43.6 | — | E73 | $23.63 |
| — | — | — | 43.7-46.5 | — | E73A | $23.63 |
| — | — | 35.4-41.5 | 46.6-51.6 | — | E74 | $23.63 |
| — | — | 41.6-45.0 | 51.7-54.4 | — | E76 | $23.63 |
| — | — | 45.1-52.3 | 54.5-58.0 | — | E77 | $23.63 |
| — | — | 52.4-55.7 | 58.1-63.0 | — | E78 | $23.63 |
| — | — | 55.8-60.0 | 63.1-67.7 | — | E79 | $23.63 |
| — | — | — | 67.8-72.4 | — | E80 | $23.63 |
| — | — | — | — | — | E88 | $23.63 |
| — | — | — | — | — | E89 | $23.63 |
| — | — | — | — | — | E91 | $23.63 |
| — | — | — | — | — | E92 | $23.63 |
| — | — | — | — | — | E93 | $23.63 |
| — | — | — | 72.5-80.0 | 72.5-80.0 | E94 | $23.63 |
| — | — | — | 80.1-88.1 | 77.8-85.9 | E96 | $23.63 |
| — | — | — | 88.2-91.5 | 86.0-91.9 | E97 | $23.63 |
| — | — | — | 91.6-96.8 | 92.0-96.7 | E98 | $23.63 |
| — | — | — | 96.9-99.0 | 96.8-105 | E99 | $23.63 |
| — | — | — | 99.1-108.0 | — | E101 | $23.63 |
| — | — | — | — | — | E102 | $23.63 |
| — | — | — | — | 106-115 | E103 | $23.63 |
| — | — | — | — | 116-130 | E104 | $23.63 |

Continued On Next Page

# WORLDWIDE MOTOR CONTROLS

## *NEMA Across-Line Motor Starters*

### *Overload Relay Heater Tables*

### *Irrigation Pump Panels & Heavy Duty Starters*

| Bi-Metal Quick Trip | | | | | | |
|---|---|---|---|---|---|---|
| Full Load Amps | | | | | Model Number | List Price |
| Size 00, 0, 1 | Size 1 ¾ | Size 2, 2 ½ | Size 3, 3 ½ | Size 4 | | |
| Trip Class 10 - For Class 83, 84 and 87 | | | | | | |
| 1.52-1.65 | 1.52-1.65 | — | — | — | K21 | $23.63 |
| 1.66-1.79 | 1.66-1.79 | — | — | — | K22 | $23.63 |
| 1.80-1.94 | 1.80-4.94 | — | — | — | K23 | $23.63 |
| 1.95-2.15 | 1.95-2.15 | — | — | — | K24 | $23.63 |
| 2.16-2.37 | 2.16-2.37 | — | — | — | K26 | $23.63 |
| 2.38-2-56 | 2.38-2.56 | — | — | — | K27 | $23.63 |
| 2.57-2.87 | 2.57-2.87 | — | — | — | K28 | $23.63 |
| 2.88-3.13 | 2.88-3.13 | — | — | — | K29 | $23.63 |
| 3.14-3.37 | 3.14-3.37 | — | — | — | K31 | $23.63 |
| 3.38-3.72 | 3.38-3.72 | — | — | — | K32 | $23.63 |
| 3.73-4.00 | 3.73-4.00 | — | — | — | K33 | $23.63 |
| 4.01-4.35 | 4.01-4.35 | — | — | — | K34 | $23.63 |
| 4.36-4.99 | 4.36-4.99 | — | — | — | K36 | $23.63 |
| 5.00-5.38 | 5.00-5.38 | — | — | — | K37 | $23.63 |
| 5.39-5.79 | 5.39.-5.79 | — | — | — | K39 | $23.63 |
| 5.80-6.43 | 5.80-6.43 | — | — | — | K41 | $23.63 |
| 6.44-6.83 | 6.44-6.83 | — | — | — | K42 | $23.63 |
| 6.84-7.83 | 6.84-7.83 | — | — | — | K43 | $23.63 |
| 7.84-8.23 | 7.84-8.23 | — | — | — | K49 | $23.63 |
| 8.24-9.59 | 8.24-9.59 | — | — | — | K50 | $23.63 |
| 9.60-9.90 | 9.60-9.90 | — | — | — | K52 | $23.63 |
| 10.0-10.7 | 10.0-10.7 | — | — | — | K53 | $23.63 |
| 10.8-11.6 | 10.8-11.6 | 12.1-12.7 | — | — | K54 | $23.63 |
| 11.7-12.3 | 11.7-12.3 | 12.8-13.5 | — | — | K55 | $23.63 |
| 12.4-13.4 | 12.4-13.4 | 13.6-14.6 | -- | — | K56 | $23.63 |
| 13.5-14.2 | 13.5-14.2 | 14.7-15.9 | — | — | K57 | $23.63 |
| 14.3-15.1 | 14.3-15.1 | 16.0-16.9 | — | — | K58 | $23.63 |
| 15.2-17.5 | 15.2-17.5 | 17.0-18.2 | — | — | K60 | $23.63 |
| 17.6-18.7 | 17.6-18.7 | 18.3-19.5 | — | — | K61 | $23.63 |
| 18.8-20.0 | 18.8-20.0 | 19.6-20.9 | — | — | K62 | $23.63 |
| 20.1-21.5 | 20.1-20.5 | 21.0-23.1 | — | — | K63 | $23.63 |
| 21.6-23.9 | 21.6-23.9 | 23.2-25.4 | — | — | K64 | $23.63 |
| 24.0-25.8 | 24.0-25.8 | 25.5-27.9 | — | — | K67 | $23.63 |
| — | 25.9-29.5 | — | — | — | K68 | $23.63 |
| — | — | 28.0-30.5 | — | — | K69 | $23.63 |

## Product Overview

Heaters provide a maximum trip rating of 125% of minimum motor amperes for 40°C motors (service factor 1.15). For other motors (service factor 1.0), select the next lower listed heater catalog number within the designated table which provides a maximum trip rating of approximately 115%.

Overload relays do not provide against short circuits. To ensure proper coordination with short circuit protective device, select heaters from the information packaged with the controls device.

| Bi-Metal Quick Trip | | | | | | |
|---|---|---|---|---|---|---|
| Full Load Amps | | | | | Model Number | List Price |
| Size 00, 0, 1 | Size 1 ¾ | Size 2, 2 ½ | Size 3, 3 ½ | Size 4 | | |
| Trip Class 10 - For Class 83, 84 and 87 | | | | | | |
| — | 29.6-32.7 | 30.6-33.5 | 36.8-40.0 | — | K70 | $23.63 |
| — | 32.8-36.0 | 33.6-37.2 | 40.1-42.4 | — | K72 | $23.63 |
| — | — | 37.3-40.7 | 42.5-46.3 | — | K73 | $23.63 |
| — | — | 40.8-43.0 | 46.4-49.6 | — | K74 | $23.63 |
| — | — | 43.1-47.9 | 49.7-52.3 | 49.7-52.3 | K75 | $23.63 |
| — | — | 48.0-52.7 | 52.4-57.5 | 52.4-57.5 | K76 | $23.63 |
| — | — | 52.8-58.3 | 57.6-63.9 | 57.6-63.0 | K77 | $23.63 |
| — | — | 58.4-60.0 | 64.0-67.9 | 63.1-68.1 | K78 | $23.63 |
| — | — | — | 68.0-74.3 | 68.2-74.3 | K83 | $23.63 |
| — | — | — | 74.4-77.9 | 74.4-79.9 | K85 | $23.63 |
| — | — | — | 78.0-83.1 | 80.0-87.4 | K86 | $23.63 |
| — | — | — | 83.2-91.4 | 87.5-90.0 | K87 | $23.63 |
| — | — | — | 91.5-99.9 | 90.1-100.0 | K88 | $23.63 |
| — | — | — | 100.0-108.0 | 100.1-108.0 | K89 | $23.63 |
| — | — | — | — | 108.1-119.0 | K90 | $23.63 |
| — | — | — | — | 119.1-130.0 | K92 | $23.63 |
| — | — | — | — | — | K94 | $23.63 |
| — | — | — | — | — | K96 | $23.63 |

# WORLDWIDE MOTOR CONTROLS

## *NEMA Across-Line Motor Starters*

### *Replacement Coils*

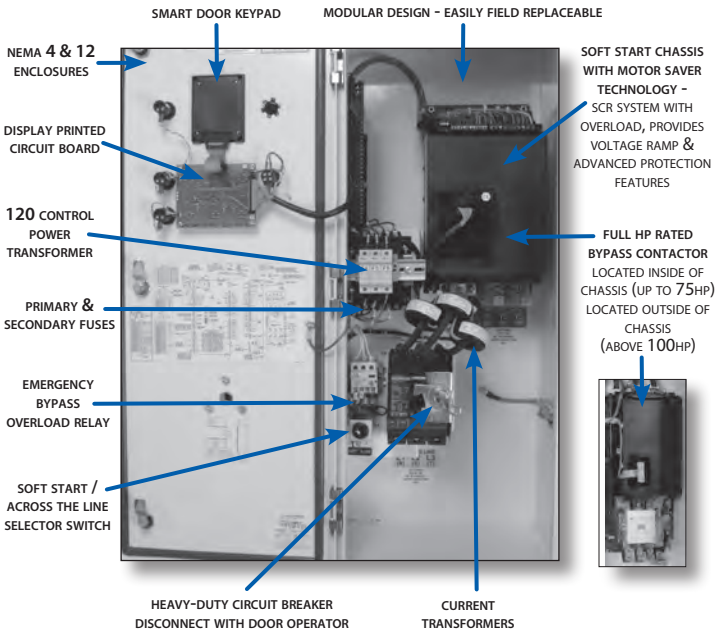
### *Irrigation Panels & Heavy Duty Starters*

| | Size | Volts | | Model Number | List Price |
|---|---|---|---|---|---|
| | | 60 Hz | 50 Hz | | |
| AC Coils | | | | | |
|  | 00 - 2.5 | 24 | 24 | 75D73070J | $188.10 |
| | | 120 | 110 | 75D73070F | |
| | | 110-120 / 220-240 | 110 / 190-200 | 75D73070A | |
| | | 208 | — | 75D73070D | |
| | | 220-240 | 190-220 | 75D73070G | |
| | | 277 | 240 | 75D73070L | |
| | | 220-240 / 440-480 | 190-220 / 380-440 | 75D73070C | |
| | | 440-480 | 380-440 | 75D73070H | |
| | | 575-600 | 550 | 75D73070E | |
| | 3, 3.5 | 24 | 24 | 75D73251J | $404.43 |
| | | 120 | 110 | 75D73251F | |
| | | 110-120 / 220-240 | 110 / 190-200 | 75D73251A | |
| | | 208 | — | 75D73251D | |
| | | 220-240 | 190-220 | 75D73251G | |
| | | 277 | 240 | 75D73251L | |
| | | 220-240 / 440-480 | 190-220 / 380-440 | 75D73251C | |
| | | 440-480 | 380-440 | 75D73251H | |
| | | 575-600 | 550 | 75D73251E | |
|  | 4 | 24 | 24 | 75D70131J | $485.94 |
| | | 120 | 110 | 75D70131F | |
| | | 110-120 / 220-240 | 110 / 190-200 | 75D70131A | |
| | | 208 | — | 75D70131D | |
| | | 220-240 | 190-220 | 75D70131G | |
| | | 277 | 240 | 75D70131L | |
| | | 220-240 / 440-480 | 190-220 / 380-440 | 75D70131C | |
| | | 440-480 | 380-440 | 75D70131H | |
| | | 575-600 | 550 | 75D70131E | |
|  | 5 | 23-26 | 23-26 | 3RT1965-5AB31 | $485.94 |
| | | 110-127 | 110-127 | 3RT1965-5AF31 | |
| | | 200-220 | 200-220 | 3RT1965-5AM31 | |
| | | 220-240 | 220-240 | 3RT1965-5AP31 | |
| | | 240-277 | 240-277 | 3RT1965-5AU31 | |
| | | 380-420 | 380-420 | 3RT1965-5AV31 | |
| | | 440-480 | 440-480 | 3RT1965-5AR31 | |
| | | 575-600 | 575-600 | 3RT1965-5AT31 | |
| | 6 | 23-26 | 23-26 | 3RT1975-5AB31 | $627.02 |
| | | 110-127 | 110-127 | 3RT1975-5AF31 | |
| | | 200-220 | 200-220 | 3RT1975-5AM31 | |
| | | 220-240 | 200-240 | 3RT1975-5AP31 | |
| | | 240-277 | 240-277 | 3RT1975-5AU31 | |
| | | 380-420 | 380-420 | 3RT1975-5AV31 | |
| | | 440-480 | 440-480 | 3RT1975-5AR31 | |
| | | 575-600 | 575-600 | 3RT1975-5AT31 | |

# WORLDWIDE MOTOR CONTROLS

## *Soft Start Starters*

## *WWEHD Heavy Duty Reduced Voltage Soft Start Starters With Full Rated Wired Emergency Bypass*




## Product Overview

- Three wire in, three wire out installation
- Service Entrance Rated
- Integral bypass contactors are standard on all sizes
- Over current capacity : 500% for 60 seconds
- Real-time thermal modeling and dynamic thermal register continuously calculates motor operating temperature even when your motor is not running
- Auto-synchronization
- Phase loss protection based on current and voltage
- Separate across the line overload protection
- Load loss trip (under current) with trip delay
- Pre-start checks for shorted load prior to each start
- Two programmable overload trip curves allow for the thermal capacity required to start the load while providing more closely matched over load protection during the run time
- PTC thermistor input for use on motors with embedded PTC temperature sensors
- Current imbalance trip and biasing of the thermal register
- Electronic shear pin trip (overcurrent) with trip delay
- Equipment ground fault trip and monitoring
- Load loss trip (under current) with trip delay

| NEMA 4 / 12 Enclosure | | | | | |
|---|---|---|---|---|---|
| HP | | Model Number | List Price | Max FLA | Dimensions (Inches) H x W x D |
| 230 Volt | 460 Volt | | | | |
| 15 | 25 | WWEBCDSSRV12-25 | PLEASE CALL FOR PRICING | 40 | 37 x 15 x 12 |
| 15 | 30 | WWEBCDSSRV12-30 | | 45 | 37 x 15 x 12 |
| 20 | 40 | WWEBCDSSRV12-40 | | 55 | 37 x 15 x 12 |
| 25 | 50 | WWEBCDSSRV12-50 | | 68 | 37 x 15 x 12 |
| 30 | 60 | WWEBCDSSRV12-60 | | 96 | 37 x 15 x 12 |
| 40 | 75 | WWEBCDSSRV12-75 | | 125 | 37 x 15 x 12 |
| 50 | 100 | WWEBCDSSRV12-100 | | 156 | 48 x 33 x 16 |
| 60 | 125 | WWEBCDSSRV12-125 | | 156 | 48 x 33 x 16 |
| 75 | 150 | WWEBCDSSRV12-150 | | 220 | 48 x 33 x 16 |
| 100 | 200 | WWEBCDSSRV12-200 | | 248 | 48 x 33 x 16 |
| 125 | 250 | WWEBCDSSRV12-250 | | 400 | 48 x 33 x 16 |
| 150 | 300 | WWEBCDSSRV12-300 | | 400 | 48 x 33 x 16 |
| 200 | 400 | WWEBCDSSRV12-400 | | 480 | 48 x 33 x 16 |
| 250 | 500 | WWEBCDSSRV12-500 | | 600 | 48 x 33 x 16 |
| 300 | 600 | WWEBCDSSRV12-600 | | 800 | 92 x 36 x 30 |

## Product Specifications

**Power Components**
- 6 SCRs in inverse parallel pairs for full phase angle soft start control
- 1600V PIV rating on all units
- RC snubber for dv/dt protection of each SCR pair

**Line Voltage Range**
- 200 to 600 VAC, 3 phase + 10%-15%, 50/60 Hz

**Current Ratings**
- 18 to 800A depending on unit selection
- Range of each unit is 50-100% of maximum

**Start/Stop Control Choices**
- 2-wire START/STOP using dry contacts
- 3-wire START/STOP with built-in seal in contact
- Normally closed interlock input (dry contact) for remote devices

**Ramp Control Choices (4 built-in)**
- Voltage Ramp
- Voltage Ramp with Current Limit
- CLT© Closed Loop Torque ramp (current ramp)
- Current Step (current limit only)

**Ramping**
- Ramp times adjustable 1-120 seconds
- Current limit adjustable 200-600% of FLA

**Kick Start**
- 10-100% starting torque for 0.1-2 seconds

# WORLDWIDE MOTOR CONTROLS

## *Soft Start Starters*

### *WWE Heavy Duty Non-Combination Reduced Voltage Soft Start Starters*




## Product Overview

- With motor-saver technology
- Same NEMA 4/12 enclosure as combination unit
- Service Entrance Rated
- Auto-synchronization
- Heavy duty full voltage rated integral bypass
- 120 Volt controls power transformer
- Programmable electronic overload
- Two pre-punched holes for optional controls
- White powder coated finish

| NEMA 4/12 Enclosure - No Circuit Breaker | | | | | |
|---|---|---|---|---|---|
| HP | | Model Number | List Price | Max FLA | Dimensions (Inches) H x W x D |
| 230 Volt | 460 Volt | | | | |
| 10 | 25 | WWE02534N1 | PLEASE CALL FOR PRICING | 40 | 24 x 16 x 8 |
| 20 | 40 | WWE04034N1 | | 55 | 24 x 16 x 8 |
| 25 | 50 | WWE05034N1 | | 68 | 24 x 16 x 8 |
| 40 | 75 | WWE07534N1 | | 125 | 36 x 24 x 8 |
| 50 | 100 | WWE010034N1 | | 156 | 48 x 24 x 12 |
| 75 | 150 | WWE015034N1 | | 220 | 48 x 24 x 12 |
| 100 | 200 | WWE020034N1 | | 248 | 48 x 24 x 12 |
| 150 | 300 | WWE030034N1 | | 400 | 60 x 24 x 12 |
| 200 | 400 | WWE40034N1 | | 480 | 60 x 24 x 12 |

# WORLDWIDE MOTOR CONTROLS

## *Soft Start Starters*

### *WWEPPB Heavy Duty Deep Well Soft Start Starters With Full Rated Wired Emergency Bypass*






## Product Overview

- Three wire in, three wire out installation
- NEMA 4/12 enclosure
- Service Entrance Rated
- Superior motor protection via "Retentive Thermal Modelling"
- 230/460 Volt - 3-phase - 50/60hz
- Advanced motor protection
- Auto-synchronization
- Circuit breaker with door mounted lockable operator handle
- Integral full rated bypass contactor
- "Smart Door" accepts input from Murphy Switches
- Across the line selector switch mounted inside the enclosure
- 120 Volt control power transformer
- Current rated 500% for 60 seconds
- Door mounted keypad & pilot devices
- Pump ramp down feature
- External/fault indicators with lights:
  - Green run light
  - Amber low crankcase oil level
  - Amber low pressure oil level
  - Amber vibration trip
  - Amber high pressure
  - Spare

| NEMA 4/12 Enclosure | | | | | |
|---|---|---|---|---|---|
| HP | | Model Number | List Price | Max FLA | Dimensions (Inches) H x W x D |
| 230 Volt | 460 Volt | | | | |
| 25 | 50 | WWEPPBSSRV12-50 | PLEASE CALL FOR PRICING | 68 | 37 x 15 x 12 |
| 40 | 75 | WWEPPBSSRV12-75 | | 125 | 37 x 15 x 12 |
| 50 | 100 | WWEPPBSSRV12-100 | | 156 | 48 x 33 x 16 |
| 60 | 125 | WWEPPBSSRV12-125 | | 156 | 48 x 33 x 16 |
| 75 | 150 | WWEPPBSSRV12-150 | | 220 | 48 x 33 x 16 |
| 100 | 200 | WWEPPBSSRV12-200 | | 248 | 48 x 33 x 16 |
| 150 | 300 | WWEPPBSSRV12-300 | | 400 | 48 x 33 x 16 |

# WORLDWIDE MOTOR CONTROLS

## *Soft Start Starters*

### *wwEPIC Irrigation Soft Start Starters*



**WWE Pump Irrigation Combination Soft Start wwEPIC SERIES**



**Simple Operation**

## Product Overview

- Service Entrance Rated
- NEMA 3R enclosure
- Advanced motor protection
- Circuit breaker and door operator disconnect (fused disconnect on 20 and 25 HP)
- Three wire in, three wire out installation
- REMOTE/ OFF/ ON selector switch for local or remote operation
- Full three leg power starter
- Overload rated 500% for 30 seconds
- Integral run rated bypass contactor
- Multiple ramp profiles, Pump-Flex decel control
- Emergency stop pushbutton
- Illuminated reset pushbutton
- Run pilot light

Four built in ramp control profiles include voltage ramp, voltage ramp with current limit, closed loop torque ramp, and current step allow for maximum soft start flexibility.

wwEPIC Soft Start starter eliminates the damaging effects of *water hammer* with Pump-Flex decel control ramp. A gradual reduction in the output torque of your pump motor is provided when a stop signal is initiated. Since no two pump applications are exactly the same, the flexible settings of Pump-Flex decel control allow you to tailor the output to precisely to match your application requirements.

*The Most Cost Effective Combination Soft-Start Starter In The Industry!*

| NEMA 3R Enclosure | | | | | |
|---|---|---|---|---|---|
| HP | | Model Number | List Price | Max FLA | Dimensions (Inches) H x W x D |
| 230 Volt | 460 Volt | | | | |
| 10 | 20 | wwEPICSSRV12-20 | PLEASE CALL FOR PRICING | 28 | 37 x 15 x 12 |
| — | 25 | wwEPICSSRV12-25 | | 39 | 37 x 15 x 12 |
| 15 | 30 | wwEPICSSRV12-30 | | 48 | 37 x 15 x 12 |
| 20 | 40 | wwEPICSSRV12-40 | | 62 | 37 x 15 x 12 |
| 25 | 50 | wwEPICSSRV12-50 | | 78 | 37 x 15 x 12 |
| 30 | 60 | wwEPICSSRV12-60 | | 92 | 37 x 15 x 12 |
| — | 75 | wwEPICSSRV12-75 | | 112 | 37 x 15 x 12 |
| 50 | 100 | wwEPICSSRV12-100 | | 150 | 37 x 15 x 12 |
| 60 | 125 | wwEPICSSRV12-125 | | 160 | 37 x 15 x 12 |
| 75 | 150 | wwEPICSSRV12-150 | | 210 | 48 x 33 x 16 |
| 100 | 200 | wwEPICSSRV12-200 | | 275 | 48 x 33 x 16 |
| 125 | 250 | wwEPICSSRV12-250 | | 361 | 48 x 33 x 16 |
| 150 | 300 | wwEPICSSRV12-300 | | 361 | 48 x 33 x 16 |
| 200 | 400 | wwEPICSSRV12-400 | | 550 | 48 x 33 x 16 |
| 250 | 500 | wwEPICSSRV12-500 | | 600 | 48 x 33 x 16 |
| 300 | 600 | wwEPICSSRV12-600 | | 862 | 92 x 36 x 30 |

# WORLDWIDE MOTOR CONTROLS

## *Soft Start Starters*

### *Solid State Soft Start Starters*



## Product Overview

- 115 Volt control power transformer
- Heavy duty & high torque applications
- ESP100 solid state overload
- Adjustable start time & torque settings
- All units fan cooled

These controls offer an affordable solution for your motor control needs. Our soft start controllers and starters incorporate the latest in solid-state technology providing precise control of the starting and stopping of any AC induction motor. Solid-state reduced voltage starting allows motor voltage to be gradually applied, reducing potentially damaging high inrush currents and starting torques.

AC induction motors and their associated high torque starting have been a routine cause of problems for plant and maintenance engineers. You can put an end to those problems with high quality, solid-state motor controls. They apply start and stopping power smoothly over a wide range of applications.

We offer one of the widest ranges of solid-state motor control products in the industry for both retrofit and OEM applications.

| Nema 1 Enclosure - No Circuit Breaker | | |
|---|---|---|
| HP | Model Number* | List Price |
| 230 Volt | | PLEASE CALL FOR PRICING |
| 25 | SK3N1025N | |
| 40 | SM3N1040N | |
| 50 | SN3N1050N | |
| 75 | SQ3N1075N | |
| 100 | SR3N1100N | |
| 150 | ST3N1150N | |
| 200 | SW3N1200N | |
| 300 | SY3N1300N | |
| 460 Volt | | |
| 40 | SJ4N1040N | |
| 50 | SK4N1050N | |
| 75 | SM4N1075N | |
| 100 | SN4N1100N | |
| 150 | SQ4N1150N | |
| 200 | SR4N1200N | |
| 300 | ST4N1300N | |
| 400 | SW4N1400N | |
| 600 | SY4N1600N | |

* Quantity is limited

# WORLDWIDE MOTOR CONTROLS

## *Soft Start Starters*

### *Solid State Soft Start Starters*

### *Advanced Design Crusher Starter*





## Product Overview

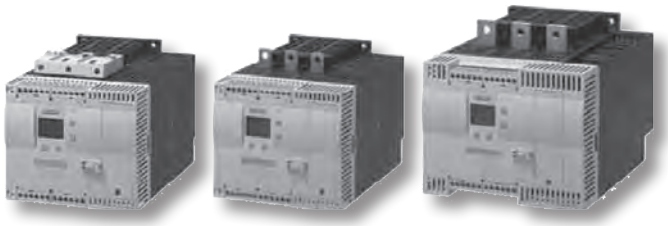
- NEMA 4 enclosure
- Industrial grade circuit breaker
- Heavy duty full horsepower rated by-pass contactor provides additional protection
- Emergency by-pass selector switch (will select solid state or across-line)
- Ultra heavy duty SCRs (1600 PIV rated)
- Class 20 thermal overload
- START / STOP pushbutton (mounted on door)
- Run pilot light (mounted on door)
- Terminal strip for remote connections (mounted in panel)
- 115 Volt control power transformer
- Smooth start, eliminates physical stresses to the system and load while minimizing current
- Single speed and reversing
- Ramp-up/ramp-down (soft-start / soft-stop)

| HP | | Model Number | List Price | Operational Current Rating Amp | Dimensions (Inches) H x W x D |
|---|---|---|---|---|---|
| 230 Volt | 460 Volt | | | | |
| 15 | 25 | WSACDSSRV4-25 | PLEASE CALL FOR PRICING | 42 | 36 x 23 x 15 |
| 20 | 40 | WSACDSSRV4-40 | | 68 | 36 x 23 x 15 |
| 25 | 50 | WSACDSSRV4-50 | | 68 | 36 x 23 x 15 |
| — | 75 | WSACDSSRV4-75 | | 117 | 50 x 25 x 20 |
| 50 | 100 | WSACDSSRV4-100 | | 145 | 66 x 25 x 20 |
| 75 | 150 | WSACDSSRV4-150 | | 215 | 66 x 25 x 20 |
| 100 | 200 | WSACDSSRV4-200 | | 280 | 90 x 30 x 20 |
| 150 | 300 | WSACDSSRV4-300 | | 385 | 90 x 40 x 20 |
| — | 400 | WSACDSSRV4-400 | | 494 | 90 x 40 x 20 |
| — | 600 | WSACDSSRV4-600 | | 780 | 90 x 40 x 20 |

# WORLDWIDE MOTOR CONTROLS

## *Soft Start Starters*

### *Soft Start Starters For High-Feature Applications*



3RW4427-1BC44 3RW4436-6BC44 3RW4447-6BC44

| Rated Operational Current | HP | | | Model Number | List Price |
|---|---|---|---|---|---|
| | 200 Volt | 230 Volt | 460 Volt | | |
| Inline Circuits (2) Rated Operational Voltage 200-460 Volt | | | | | |
| 26 | 7.5 | 7.5 | 15 | 3RW4422-☐BC☐4 | PLEASE CALL FOR PRICING |
| 32 | 10 | 10 | 20 | 3RW4423-☐BC☐4 | |
| 42 | 10 | 15 | 25 | 3RW4424-☐BC☐4 | |
| 51 | 15 | 15 | 30 | 3RW4425-☐BC☐4 | |
| 68 | 20 | 20 | 50 | 3RW4426-☐BC☐4 | |
| 82 | 25 | 25 | 60 | 3RW4427-☐BC☐4 | |
| Supplement number for connection types<br>- With spring-type terminals<br>- Witch screw terminals | | | | 31 | |
| Supplement number for the rated controls supply voltage<br>- 115 Volt AC<br>- 230 Volt AC | | | | 34 | |
| 100 | 30 | 30 | 75 | 3RW4434-☐BC☐4 | PLEASE CALL FOR PRICING |
| 117 | 30 | 40 | 75 | 3RW4435-☐BC☐4 | |
| 145 | 40 | 50 | 100 | 3RW4436-☐BC☐4 | |
| 180 | 50 | 60 | 125 | 3RW4443-☐BC☐4 | |
| 215 | 60 | 75 | 150 | 3RW4444-☐BC☐4 | |
| 280 | 75 | 100 | 200 | 3RW4445-☐BC☐4 | |
| 315 | 100 | 125 | 250 | 3RW4446-☐BC☐4 | |
| 385 | 125 | 150 | 300 | 3RW4447-☐BC☐4 | |
| 494 | 150 | 200 | 400 | 3RW4453-☐BC☐4 | |
| 551 | 150 | 200 | 450 | 3RW4454-☐BC☐4 | |
| 615 | 200 | 250 | 500 | 3RW4455-☐BC☐4 | |
| 693 | 200 | 250 | 550 | 3RW4456-☐BC☐4 | |
| 780 | 250 | 300 | 600 | 3RW4457-☐BC☐4 | |
| 850 | 300 | 250 | 700 | 3RW4458-☐BC☐4 | |
| 970 | 350 | 400 | 800 | 3RW4465-☐BC☐4 | |
| 1076 | 350 | 400 | 900 | 3RW4466-☐BC☐4 | |
| Supplement number for connection types<br>- With spring-type terminals<br>- With screw terminals | | | | 26 | |
| Supplement number for the rated controls supply voltage (1)<br>- 115 Volt AC<br>- 230 Volt AC | | | | 34 | |

(1) Control by way of the internal 24 volt DC supply and direct control by means of PLC possible

(2) For inside delta selection contact sales office

## Product Overview

- Soft starting and smooth ramp-down
- Stepless starting
- Reduction of current peaks
- Reduced load on the power supply network
- Reduction of the mechanical load in the operating mechanism
- Avoidance of mains voltage fluctuations during starting
- Considerable space savings and reduced wiring compared with conventional starters
- Maintenance-free switching
- Performance range:
  - Up to 900HP (at 460 Volt) in inline circuit
  - Up to 1600HP (at 460 Volt) in inside-delta circuit
- For heavy duty applications please contact our sales office

In addition to soft starting and soft ramp-down, the solid state 3RW44 soft starters provide numerous function for higher-lever requirements. The new torque control and adjustable current limiting enable the high-feature soft starters to be used in nearly every application. They guarantee the reliable avoidance of sudden torque applications and current peaks during motor starting and stopping. This creates savings potential when calculating the size of the switchgear and when servicing the machinery installed.

The bypass contacts already integrated in the soft starter bypass the thyristors after a motor ramp-up is detected. This results in a further reduction in the heat loss occurring during operation of the soft starter.

Combinations of various starting operating and ramp-down possibilities ensure an optimum adaptation to the application specific requirements.



3RW4458-6BC44 3RW4466-6BC44

SOFT START STARTERS

# WORLDWIDE MOTOR CONTROLS

## *Variable Frequency Drives*

## *HYUNDAI N700E Series High Performance Drives*



HYUNDAI HEAVY INDUSTRIES CO.,LTD.

### Product Overview

The HYUNDAI N700E Series High Performance Drives offer powerful control solutions with exceptional speed control and torque response which provides superior vector performance.

The N700E's compact size and sensorless vector control technology provides perfectly optimized performance for industrial and commercial applications.

Certificates of international standards (UL/cUL, CE) for the N700E series make it perfect for global applications. Compatible with the most common loads such as: fans, blowers, compressors, pumps, mixers, agitators, feeders, centrifuges, cranes, hoists, presses, saws, extruders, and textile spinning machines.

### Product Specifications

- Sensorless Vector Control
- 0.01 - 400hz
- 150% overload for one minute, CT application
  120% overload for one minute, VT applications
- 3000 second accel/decel
- DC braking
- Auto-tuning
- BDR brake function
- AVR function
- Sixteen level multi-speed
- Adjustable carrier frequencies
- PID control
- Frequency jump
- Analog Gain Bias
- Jog run
- Electronic thermal overload
- Auto-torque boost, trip history monitor and software lock
- 50°C ambient
- Speed search function
- Intelligent input function
- RS485 - Modbus communications

| HP | Rated Output Current | Model Number | List Price | Dimensions (Inches) H x W x D | Approx. Wt. (lbs.) |
|---|---|---|---|---|---|
| 230 Volt, Single Phase | | | | | |
| 0.5 | 3 | N700E-004SF | $627.00 | 5.04 x 2.67 x 5.04 | 2.6 |
| 1 | 5 | N700E-007SF | $652.00 | 5.04 x 2.67 x 5.04 | 2.6 |
| 2 | 7 | N700E-015SF | $757 .00 | 5.04 x 4.25 x 5.6 | 3.3 |
| 3 | 11 | N700E-022SF | $820 .00 | 5.04 x 4.25 x 5.6 | 3.3 |

| Constant Torque 150% Overload | | Variable Torque 120% Overload | | Model Number | List Price | Dimensions (Inches) H x W x D | Approx. Wt. (lbs.) |
|---|---|---|---|---|---|---|---|
| HP | Rated Output Current | HP | Rated Output Current | | | | |
| 230 Volt, Three Phase | | | | | | | |
| 0.5 | 3 | — | — | N700E-004LF | $610.00 | 5.04 x 2.67 x 5.04 | 2.6 |
| 1 | 5 | — | — | N700E-007LF | $633.00 | 5.04 x 2.67 x 5.04 | 2.6 |
| 2 | 7 | — | — | N700E-015LF | $745 .00 | 5.04 x 2.67 x 5.04 | 2.6 |
| 3 | 11 | — | — | N700E-022LF | $807 .00 | 5.04 x 4.25 x 5.6 | 3.3 |
| 5 | 17 | — | — | N700E-037LF | $1,037.00 | 5.04 x 5.42 x 5.78 | 4.4 |
| 7.5 | 24 | 10 | 30 | N700E-055LF | $1,850.00 | 10.82 x 8.26 x 6.61 | 9.3 |
| 10 | 32 | 15 | 44 | N700E-075LF | $2,185.00 | 10.82 x 8.26 x 6.61 | 9.3 |
| 15 | 45 | 20 | 50 | N700E-110LF | $2800.00 | 10.82 x 8.26 x 6.61 | 9.3 |
| 20 | 64 | 25 | 73 | N700E-150LF | $3235.00 | 15.4 x 9.85 x 7.4 | 16 |
| 25 | 76 | 30 | 85 | N700E-185LF | $3595.00 | 15.4 x 9.85 x 7.4 | 16 |

Note: Always check the motor full load amps prior to selecting the inverter

Continued On Next Page

# WORLDWIDE MOTOR CONTROLS

## *Variable Frequency Drives*

## *HYUNDAI N700E Series High Performance Drives*



HYUNDAI HEAVY INDUSTRIES CO.,LTD.

### Product Overview

The HYUNDAI N700E Series High Performance Drives offer powerful control solutions with exceptional speed control and torque response which provides superior vector performance.

The N700E's compact size and sensorless vector control technology provides perfectly optimized performance for industrial and commercial applications.

Certificates of international standards (UL/cUL, CE) for the N700E series make it perfect for global applications. Compatible with the most common loads such as: fans, blowers, compressors, pumps, mixers, agitators, feeders, centrifuges, cranes, hoists, presses, saws, extruders, and textile spinning machines.

### Product Specifications

- Sensorless Vector Control
- 0.01 - 400hz
- 150% overload for one minute, CT application
  120% overload for one minute, VT applications
- 3000 second accel/decel
- DC braking
- Auto-tuning
- BDR brake function
- AVR function
- Sixteen level multi-speed
- Adjustable carrier frequencies
- PID control
- Frequency jump
- Analog Gain Bias
- Jog run
- Electronic thermal overload
- Auto-torque boost, trip history monitor and software lock
- 50°C ambient
- Speed search function
- Intelligent input function
- RS485 - Modbus communications

| Constant Torque 150% Overload | | Variable Torque 120% Overload | | Model Number | List Price | Dimensions (Inches) H x W x D | Approx. Wt. (lbs.) |
|---|---|---|---|---|---|---|---|
| HP | Rated Output Current | HP | Rated Output Current | | | | |
| 460 Volt, Three Phase | | | | | | | |
| 0.5 | 1.8 | — | — | N700E-004HF | $775.00 | 5.04 x 4.25 x 5.6 | 2.6 |
| 1 | 3.4 | — | — | N700E-007HF | $813.00 | 5.04 x 4.25 x 5.6 | 2.6 |
| 2 | 4.8 | — | — | N700E-015HF | $938.00 | 5.04 x 4.25 x 5.6 | 3.3 |
| 3 | 7.2 | — | — | N700E-022HF | $1,173.00 | 5.04 x 4.25 x 5.6 | 3.3 |
| 5 | 9.2 | — | — | N700E-037HF | $1,316.00 | 5.04 x 5.42 x 5.78 | 4.4 |
| 7.5 | 12 | 10 | 15 | N700E-055HF | $1,832.00 | 10.82 x 8.26 x 6.61 | 9.3 |
| 10 | 16 | 15 | 22 | N700E-075HF | $2,241.00 | 10.82 x 8.26 x 6.61 | 9.3 |
| 15 | 23 | 20 | 29 | N700E-110HF | $2,800.00 | 10.82 x 8.26 x 6.61 | 9.3 |
| 20 | 32 | 25 | 37 | N700E-150HF | $3,235.00 | 15.4 x 9.85 x 7.4 | 16 |
| 25 | 38 | 30 | 43 | N700E-185HF | $3,595.00 | 15.4 x 9.85 x 7.4 | 16 |
| 30 | 45 | 40 | 57 | N700E-220HF | $4,296.00 | 15.4 x 9.85 x 7.4 | 17 |
| 40 | 58 | 50 | 70 | N700E-300HF | $6,178.00 | 20.86 x 12.28 x 10.63 | 48 |
| 50 | 75 | 60 | 85 | N700E-370HF | $7,277.00 | 20.86 x 12.28 x 10.63 | 48 |
| 60 | 90 | 75 | 105 | N700E-450HF | $8,804.00 | 21.57 x 13.46 x 11.02 | 60 |
| 75 | 110 | 100 | 135 | N700E-550HF | $9,965.00 | 21.57 x 13.46 x 11.02 | 66 |
| 100 | 149 | 125 | 160 | N700E-750HF | $13,045.00 | 27.48 x 15.6 x 11.02 | 110 |
| 125 | 176 | 150 | 195 | N700E-900HF | $16,435.00 | 27.48 x 15.6 x 11.02 | 110 |
| 150 | 217 | 200 | 230 | N700E-1100HF | $18,000.00 | 29.13 x 18.89 x 11.81 | 132 |
| 200 | 260 | 250 | 285 | N700E-1320HF | $20,750.00 | 29.13 x 18.89 x 11.81 | 132 |
| 250 | 300 | 300 | 370 | N700E-1600HF* | $35,700.00 | 36.22 x 19.92 x 15.35 | 242 |
| 300 | 415 | 350 | 450 | N700E-2200HF* | $36,650.00 | 36.22 x 19.92 x 15.35 | 242 |
| 400 | 525 | 450 | 600 | N700E-2800HF* | $48,400.00 | 40.15 x 31.73 x 15.55 | 375 |
| 450 | 656 | 500 | 680 | N700E-3500HF* | $54,500.00 | 40.15 x 31.73 x 15.55 | 375 |

Note: Always check the motor full load amps prior to selecting the inverter
* Available 10/2012

# WORLDWIDE MOTOR CONTROLS

## *Variable Frequency Drives*

### *HYUNDAI N700E Series High Performance Drives*

### *Specifications*

| Specification | | | Description |
|---|---|---|---|
| Control Method | | | Sensorless Vector Control PWM method |
| Output Frequency Range | | | 0.01~400Hz |
| Frequency Accuracy | | | Digital: max frequency ±0.01%;<br>Analogue: max frequency ±0.1% |
| Frequency Resolution | | | Digital setting: 0.01 Hz (<100Hz), 0.1Hz (>100Hz)<br>Analogue: Max frequency / 500 (when DC 5V input), Max frequency / 1,000 (DC 0~10V, 4~20mA) |
| V/f Characteristic | | | Base frequency: 0~400Hz free set<br>Torque pattern selection available (constant torque / reduced torque) |
| Overload Capacity | | | 150%, 1minute (heavy duty), 120%, 1minute (normal duty) |
| Acceleration/Deceleration Time | | | 0.1~3,000 sec (linear / curve selection available)<br>2nd acceleration / deceleration setting available |
| DC Braking | | | Performs between min frequency and established braking frequency<br>Level and time setting available |
| Input | Frequency Setting | Standard Operator | Set by volume up / down key<br>1 W, 1~2 kΩ variable resistor<br>DC 0~10 V (input impedance 10 kΩ), 4~20 mA (input impedance 250 Ω)<br>Run key / stop key (change forward / reverse by function command)<br>Forward run / stop, reverse run / stop set by terminal assignment (1a, 1b selection available) |
| | | External Signal | |
| | Forward / Reverse Start / Stop | Standard Operator | |
| | | External Signal | |
| Intelligent Input Terminal | | | FW (forward), RV (reverse),CF1~4 (multi-speed), RS (reset),<br>AT (analog input current / voltage transfer), USP (unattended start protection),<br>EXT (external trip), FRS (free run stop), JG (jogging command), SFT (software lock command),<br>2CH (2nd acceleration / deceleration), SET (2nd motor constants setting) |
| Intelligent Output Terminal | | | RUN (run signal), FA1 [frequency arrival signal (at the set frequency)],<br>FA2 [frequency arrival signal (at or above the set frequency)], OL (overload advanced notice signal),<br>OD (output deviation of PID signal), AL (alarm signal) |
| Output | Frequency Monitor | | Analog meter (DC0~10 V full scale. max. 1 mA)<br>Analog output frequency signal and analog output current signal<br>Analog output voltage signal selection available<br>OFF when inverter alarm (b contact output) / auto switch ON and OFF<br>Intelligent output terminal use available |
| | Alarm Output Contact | | |
| Main Functions | | | Auto torque boost, Trip history monitor, Software lock, S-shape Accel. / Decel,<br>Auto-tuning, AVR Function, V/F Setting, Curve Accel. / Decel. Selection, Frequency upper / lower limit,<br>6 Level multi-speed, Start frequency set, Carrier frequency setting (0.5~15 kHz), PID control,<br>Frequency jump, Analog gain bias control, Jogging run, Electronic thermal level control, Retry,<br>Auto torque boost, Trip history monitor, Software lock, S-shape Accel. / Decel,<br>Frequency conversion display, USP, 2nd control |
| Protective Functions | | | Over-current protection, Overload (electronic thermal), Over-voltage, Communication error,<br>Under-voltage, Output short, USP Error, EEPROM error, External trip, Ground fault, Temperature trip |
| Environmental Conditions | Ambient Temperature | | -10~50 °C (over 40 °C: set carrier frequency below 2.0 kHz) |
| | Storage Temperature | | -20~60 °C (while transporting: short time) |
| | Ambient Humidity | | Below 90% RH (non-condensing) |
| | Vibration | | 5.9 m/s2 (0.6 G). 10~55 Hz (JIS C0911 test methodology) |
| | Location | | Less than 1,000 m above sea level, Indoor (no corrosive gas, no flammable gas, no oil-drop, no-dust) |
| Options | | | Remote operator, Remote operator cable, Regenerative braking resistor |

# WORLDWIDE MOTOR CONTROLS

## *Variable Frequency Drives*

### *HYUNDAI N700E Series High Performance Drives*

### *Accessories*

| Model Number | Description | List Price |
|---|---|---|
| Remote Keypads (inverter catalog numbers 004SF/LF/HF through 037SF/LF/HF) | | |
| N700E-ROPA | Remote keypad kit, includes keypad holder and RS485 adpater | $165.00 |
| NOP1-1A | Cable, 1.5 meter | $40.00 |
| NOP1-3A | Cable, 3 meter | $63.00 |
| Remote Keypads (inverter catalog number 055LF/HF through 3500HF) | | |
| DOP7 | Remote keypad kit, 055LF through 3500HF | $185.00 |
| NOP1-1A | Cable, 1.5 meter | $40.00 |
| NOP1-3A | Cable, 3 meter | $63.00 |
| Rs 485 Serial Connection Adapter | | |
| COMM485 | For inverter model numbers 004SF, LF, HF through 037SF, LF, HF | $74.00 |
| RS485GENDER | For inverter model numbers 055LF, HF through 220HF | $20.00 |
| — | For inverter model number above 220HF (adapter not required) | — |
| Metallic Conduit Connection Box (NEMA 1 Enclosure) | | |
| N1CC075 | For inverter model number N700E-055LF/HF | $115.00 |
| N1CC075 | For inverter model number N700E-075HF | $115.00 |
| N1CC075 | For inverter model number N700E-110HF | $115.00 |
| N1CC150 | For inverter model number N700E-150HF | $130.00 |
| N1CC150 | For inverter model number N700E-185HF | $130.00 |
| N1CC150 | For inverter model number N700E-220HF | $130.00 |
| N1CC370 | For inverter model number N700E-300HF | $235.00 |
| N1CC370 | For inverter model number N700E-370HF | $235.00 |
| N1CC550 | For inverter model number N700E-450HF | $315.00 |
| N1CC550 | For inverter model number N700E-550HF | $315.00 |
| N1CC900 | For inverter model number N700E-750HF | $350.00 |
| N1CC900 | For inverter model number N700E-900HF | $350.00 |
| N1CC1320 | For inverter model number N700E-1100HF | $575.00 |
| N1CC1320 | For inverter model number N700E-1320HF | $575.00 |
| Dynamic Braking Module | | |
| BRD-VZ3-370H | For inverter model number N700E-300HF | $1,575.00 |
| BRD-VZ3-370H | For inverter model number N700E-370HF | $1,575.00 |
| BRD-VZ3-550H | For inverter model number N700E-450HF | $1,775.00 |
| BRD-VZ3-550H | For inverter model number N700E-550HF | $1,775.00 |
| BRD-VZ3-750H | For inverter model number N700E-750HF | $2,040.00 |
| BRD-VZ3-550H (1) | For inverter model number N700E-900HF | $1,775.00 |
| BRD-VZ3-750H (1) | For inverter model number N700E-1100HF | $2,040.00 |
| BRD-VZ3-750H (1) | For inverter model number N700E-1320HF | $2,040.00 |
| BU160-4S | For inverter model number N700E-1600HF | $7,675.00 |
| BU220-4S | For inverter model number N700E-2200HF | $10,265.00 |
| BU160-4S (1) | For inverter model number N700E-2800HF | $7,675.00 |
| BU220-4S (1) | For inverter model number N700E-3500HF | $10,265.00 |

Note: N700E-004SF/LF/HF thru N700E-220HF includes a built in brake circuit only resistors are required

(1) Indicates the need for two units of this catalog number, price shown is list for one unit only

Continued On Next Page

# WORLDWIDE MOTOR CONTROLS

## *Variable Frequency Drives*

## *HYUNDAI N700E Series High Performance Drives*

## *Accessories*

| Dynamic Braking Resistors - Light Duty Cycle | | | | |
|---|---|---|---|---|
| VFD Model Number | Model Number | List Price | Ohms | Watts |
| 230 Volt, Single Phase | | | | |
| N700E-004SF | RB-00P3-50 | $52.00 | 50 | 0.3 |
| N700E-007SF | RB-00P3-50 | $52.00 | 50 | 0.3 |
| N700E-015SF | RB-00P3-50 | $52.00 | 50 | 0.3 |
| N700E-022SF | RB-00P3-50 | $52.00 | 50 | 0.3 |
| 230 Volt, Three Phase | | | | |
| N700E-004LF | RB-00P3-50 | $52.00 | 50 | 0.3 |
| N700E-007LF | RB-00P3-50 | $52.00 | 50 | 0.3 |
| N700E-015LF | RB-00P3-50 | $52.00 | 50 | 0.3 |
| N700E-022LF | RB-00P3-50 | $52.00 | 50 | 0.3 |
| N700E-037LF | RB-00P6-35 | $125.00 | 35 | 0.6 |
| N700E-055LF | RB-01P0-LD-17 | $160.00 | 17 | 1 |
| 460 Volt, Three Phase | | | | |
| N700E-004HF | RB-00P3-180 | $75.00 | 180 | 0.3 |
| N700E-007HF | RB-00P3-180 | $75.00 | 180 | 0.3 |
| N700E-015HF | RB-00P3-180 | $75.00 | 180 | 0.3 |
| N700E-022HF | RB-00P3-100 | $75.00 | 100 | 0.3 |
| N700E-037HF | RB-00P6-100 | $161.00 | 100 | 0.6 |
| N700E-055HF | RB-01P2-LD-70 | $145.00 | 70 | 1.2 |
| N700E-075HF | RB-01P2-LD-50 | $145.00 | 50 | 1.2 |
| N700E-110HF | RB-02P0-LD-50 | $253.00 | 50 | 2 |
| N700E-150HF | RB-02P5-LD-30 | $575.00 | 30 | 2.5 |
| N700E-185HF | RB-03P0-LD-20 | $650.00 | 20 | 3 |
| N700E-220HF | RB-04P0-LD20 | $850.00 | 20 | 4 |
| N700E-300HF | RB-05P0-LD-12 | $1,225.00 | 12 | 5 |
| N700E-370HF | RB-06P0-LD-12 | $1,300.00 | 12 | 6 |
| N700E-450HF | RB-07P0-LD-8 | $1,942.00 | 8 | 7 |
| N700E-550HF | RB-08P5-LD-8 | $1,942.00 | 8 | 8.5 |
| N700E-750HF | RB-11P2-LD-6 | $2,225.00 | 6 | 11.2 |
| N700E-900HF | RB-08P5-LD-8 (1) | $3,875.00 | 8 | 8.5 |
| N700E-1100HF | RB-11P2-LD-6 (1) | $2,225.00 | 6 | 11.2 |
| N700E-1320HF | RB-11P2-LD-6 (1) | $2,225.00 | 6 | 11.2 |
| N700E-1600HF | RB-22P5-3 | $4,635.00 | 3 | 22.5 |
| N700E-2200HF | RB-22P5-3 | $4,635.00 | 3 | 22.5 |
| N700E-2800HF | RB-22P5-3 (1) | $4,635.00 | 3 | 22.5 |
| N700E-3500HF | RB-33P7-2 (1) | $11,095.00 | 2 | 33.7 |

| Dynamic Braking Resistors - Heavy Duty Cycle | | | | |
|---|---|---|---|---|
| VFD Model Number | Model Number | List Price | Ohms | Watts |
| 230 Volt, Single Phase | | | | |
| N700E-004SF | RB-00P3-50 | $52.00 | 50 | 0.3 |
| N700E-007SF | RB-00P3-50 | $52.00 | 50 | 0.3 |
| N700E-015SF | RB-00P3-50 | $52.00 | 50 | 0.3 |
| N700E-022SF | RB-00P3-50 | $52.00 | 50 | 0.3 |
| 230 Volt, Three Phase | | | | |
| N700E-004LF | RB-00P3-50 | $52.00 | 50 | 0.3 |
| N700E-007LF | RB-00P3-50 | $52.00 | 50 | 0.3 |
| N700E-015LF | RB-00P3-50 | $52.00 | 50 | 0.3 |
| N700E-022LF | RB-00P6-35 | $132.00 | 35 | 0.6 |
| N700E-037LF | RB-01P2-35 | $161.00 | 35 | 1.2 |
| N700E-055LF | RB-01P0-HD-17 | $144.00 | 17 | 1.2 |
| 460 Volt, Three Phase | | | | |
| N700E-004HF | RB-00P3-180 | $75.00 | 180 | 0.3 |
| N700E-007HF | RB-00P3-180 | $75.00 | 180 | 0.3 |
| N700E-015HF | RB-00P3-180 | $75.00 | 180 | 0.3 |
| N700E-022HF | RB-006-100 | $161.00 | 100 | 0.6 |
| N700E-037HF | RB-006-100 | $161.00 | 100 | 0.6 |
| N700E-055HF | RB-01P8-HD-70 | $253.00 | 70 | 1.8 |
| N700E-075HF | RB-02P4-HD-50 | $575.00 | 50 | 2.4 |
| N700E-110HF | RB-03P3-HD-50 | $575.00 | 50 | 3.3 |
| N700E-150HF | RB-04P5-HD-30 | $1,015.00 | 30 | 4.5 |
| N700E-185HF | RB-05P6-HD-20 | $1,225.00 | 20 | 5.6 |
| N700E-220HF | RB-06P6-HD-20 | $1,297.00 | 20 | 6.6 |
| N700E-300HF | RB-09P0-HD-12 | $1,942.00 | 12 | 9 |
| N700E-370HF | RB-11P2-HD-12 | $2,236.00 | 12 | 11.2 |
| N700E-450HF | RB-13P5-HD-8 | $2,507.00 | 8 | 13.5 |
| N700E-550HF | RB-16P5-HD-6 | $3,045.00 | 8 | 16.5 |
| N700E-750HF | RB-22P5-HD-6 | $3,725.00 | 6 | 22.2 |
| N700E-900HF | RB-16P5-HD-6 (1) | $3,045.00 | 6 | 16.5 |
| N700E-1100HF | RB-22P5-HD-6 (1) | $3,725.00 | 6 | 22.5 |
| N700E-1320HF | RB-22P5-HD-6 (1) | $3,725.00 | 6 | 22.5 |
| N700E-1600HF | RB-45P0-3 | $7,550.00 | 3 | 45 |
| N700E-2200HF | RB-45P0-3 | $7,550.00 | 3 | 45 |
| N700E-2800HF | RB-45P0-3 (1) | $7,550.00 | 3 | 45 |
| N700E-3500HF | RB-67P5-2 (1) | $21,875.00 | 2 | 67.5 |

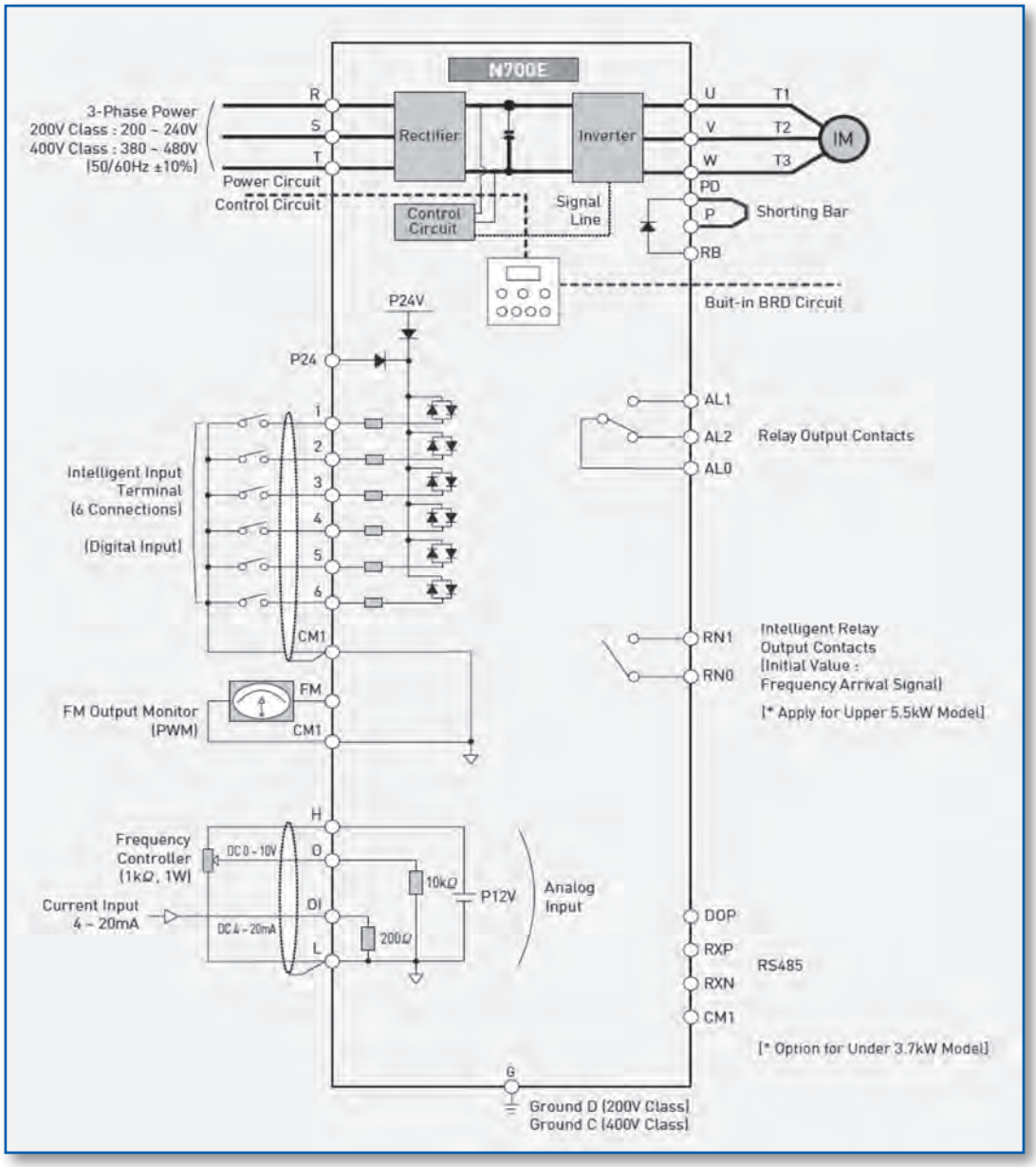
(1) Indicates the need for two units of this catalog number, price shown is list for one unit only

# WORLDWIDE MOTOR CONTROLS

## *Variable Frequency Drives*

### *HYUNDAI N700E Series High Performance Drives*

### *Terminal Connections Diagram*

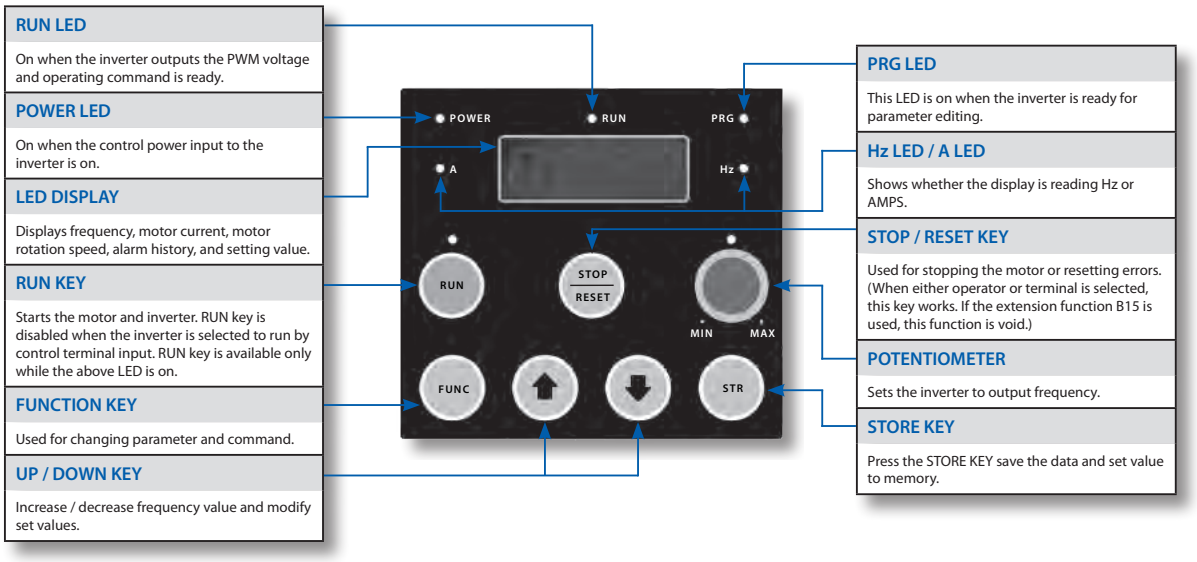


# WORLDWIDE MOTOR CONTROLS

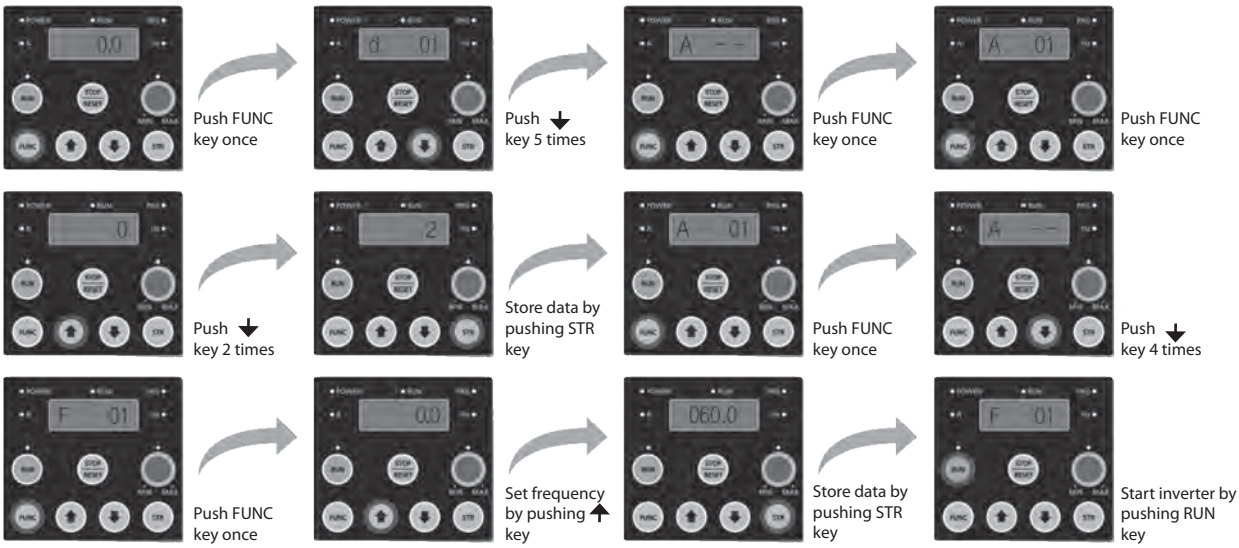
## *Variable Frequency Drives*

### *HYUNDAI N700E Series High Performance Drives*

### *Keypad Function*




### Standard Operator Setting




### Display Running Frequency



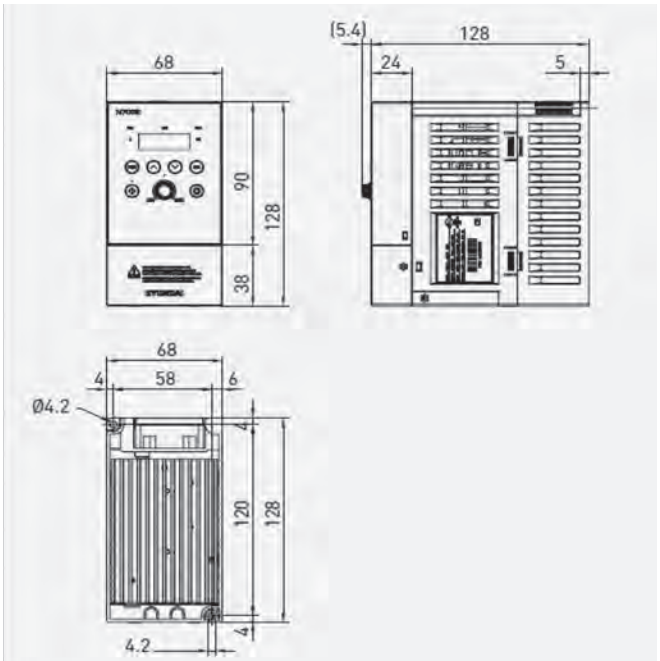
# WORLDWIDE MOTOR CONTROLS

## *Variable Frequency Drives*

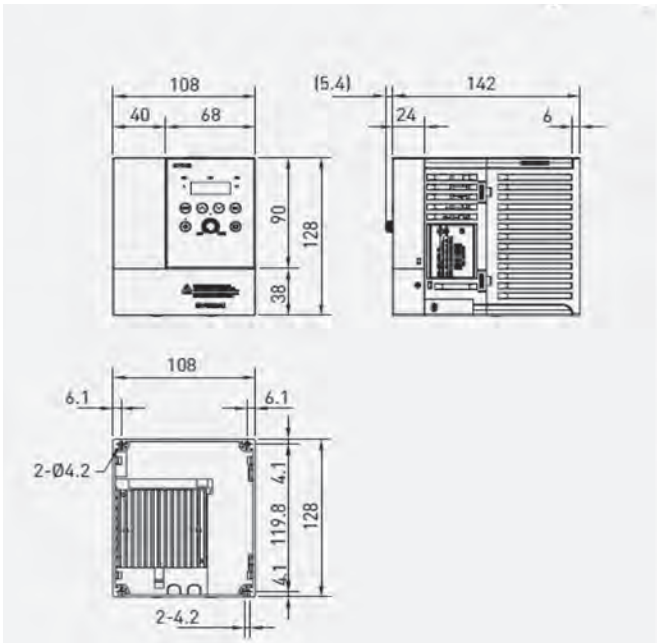
### *HYUNDAI N700E Series High Performance Drives*

### *Drive Outline Drawings*

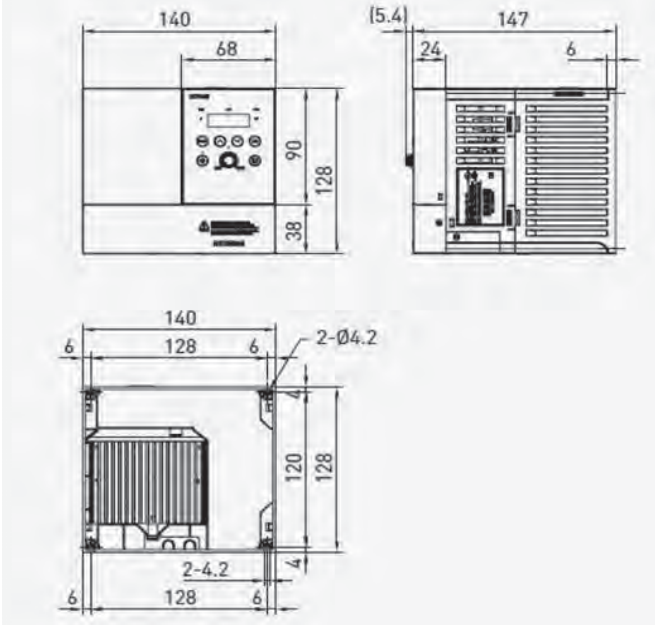
N700E-004SF/007SF,
N700E-004LF/007LF/015LF



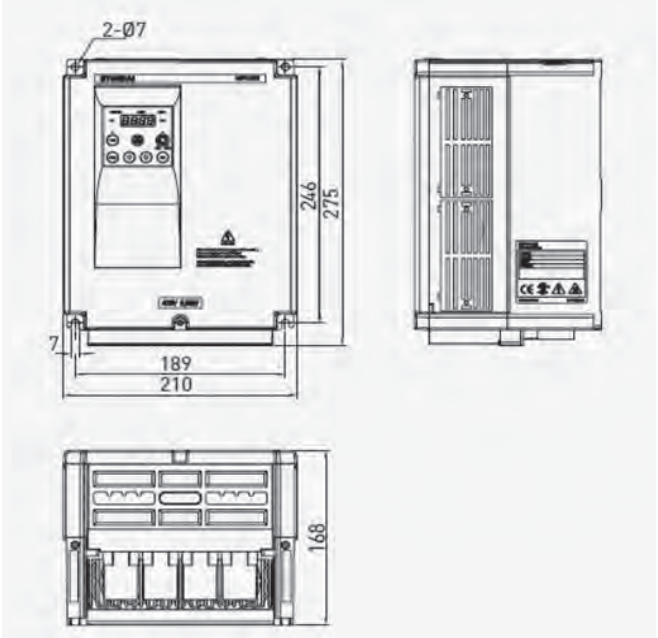

N700E-015SF/022SF, N700E-022LF,
N700E-004HF/007HF/015HF/022HF




N700E-037LF/HF




N700E-005LF/055HF, N700E-075LF/075HF
N700E-110LF/110HF



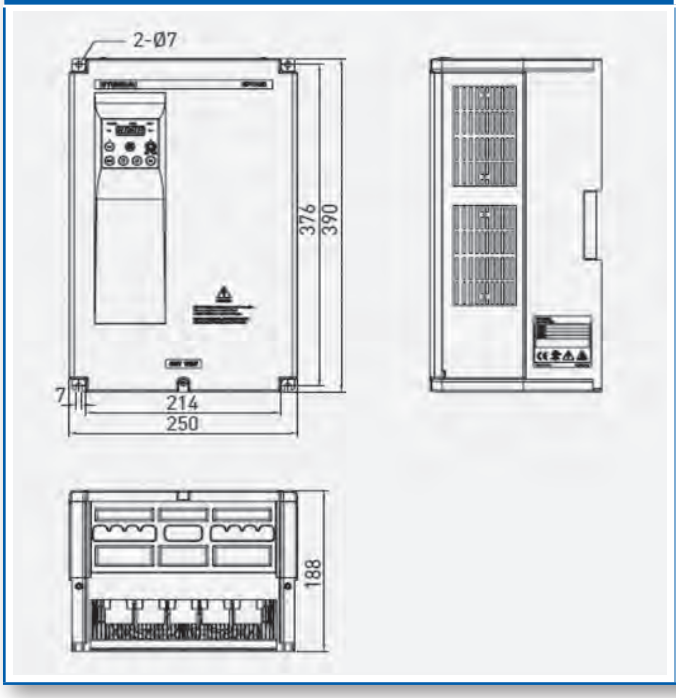
# WORLDWIDE MOTOR CONTROLS

## *Variable Frequency Drives*

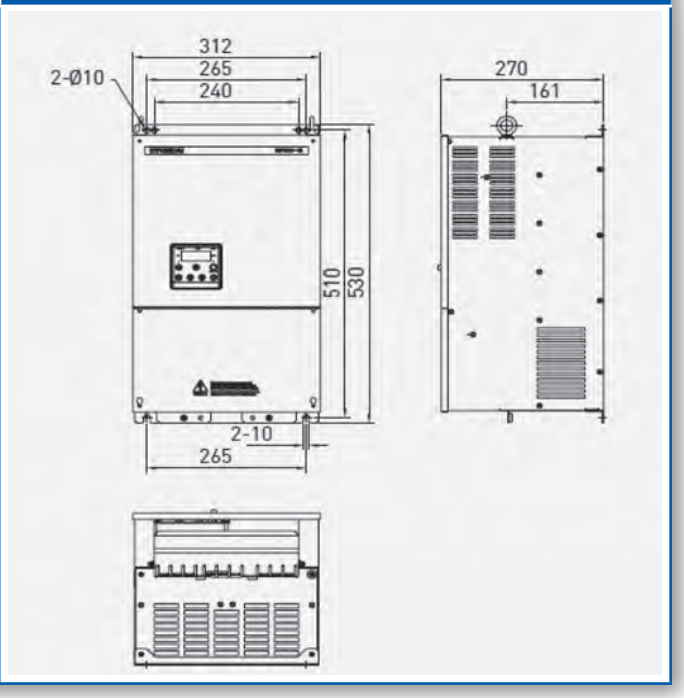
### *HYUNDAI N700E Series High Performance Drives*

### *Drive Outline Drawings*

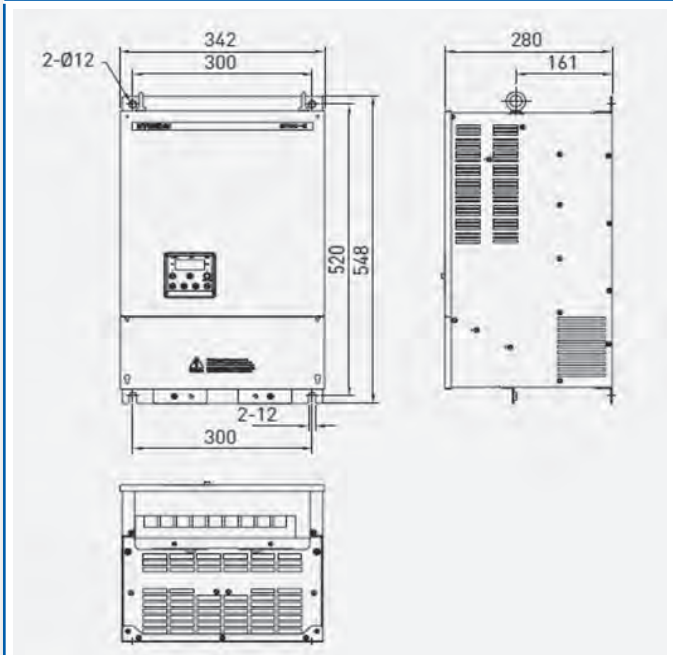
N700E-150LF/150HF, N700E-185LF/185HF, N700E-220LF/220HF



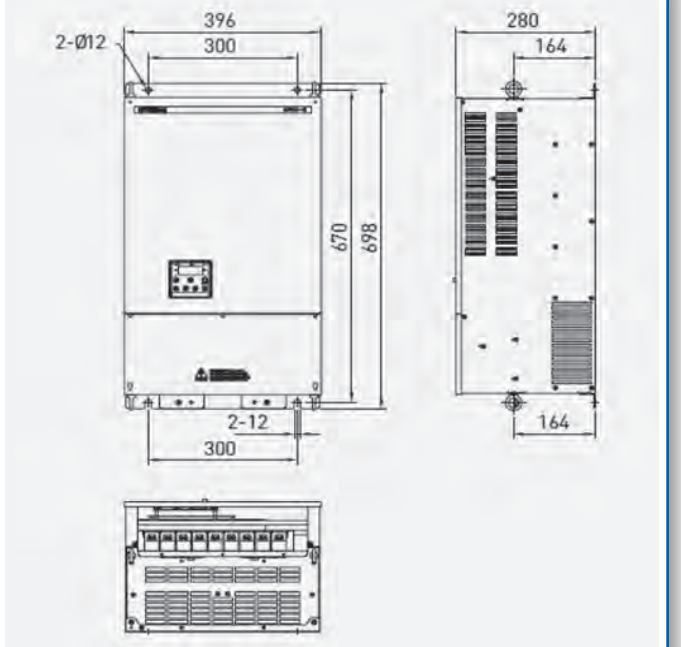

N700E-300HF, N700E-370HF




N700E-450HF, N700E-550HF




N700E-750HF, N700E-900HF



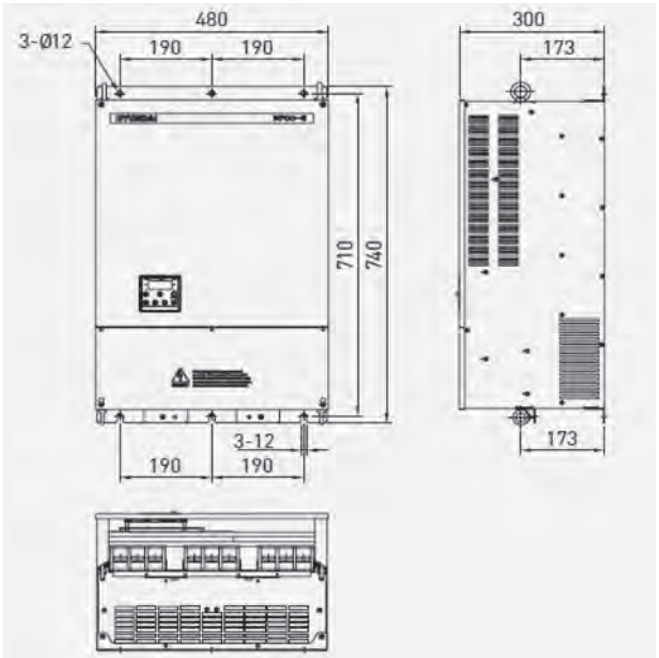
# WORLDWIDE MOTOR CONTROLS

## *Variable Frequency Drives*

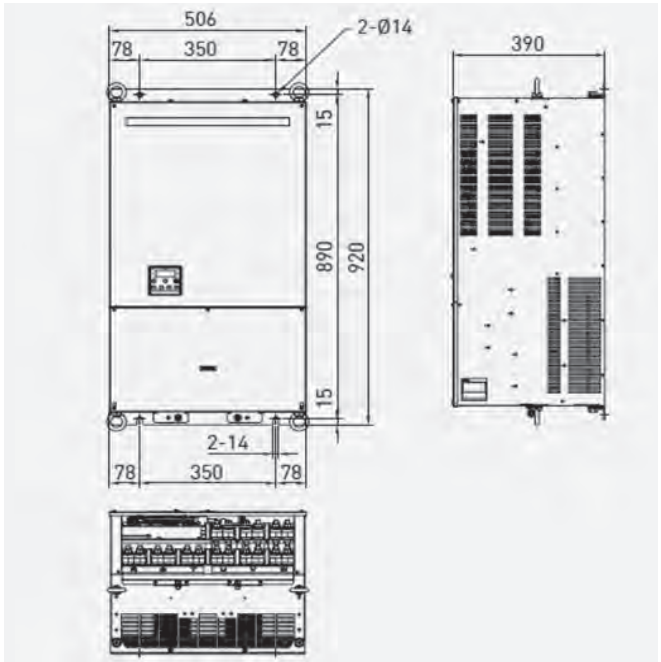
### *HYUNDAI N700E Series High Performance Drives*

### *Drive Outline Drawings*

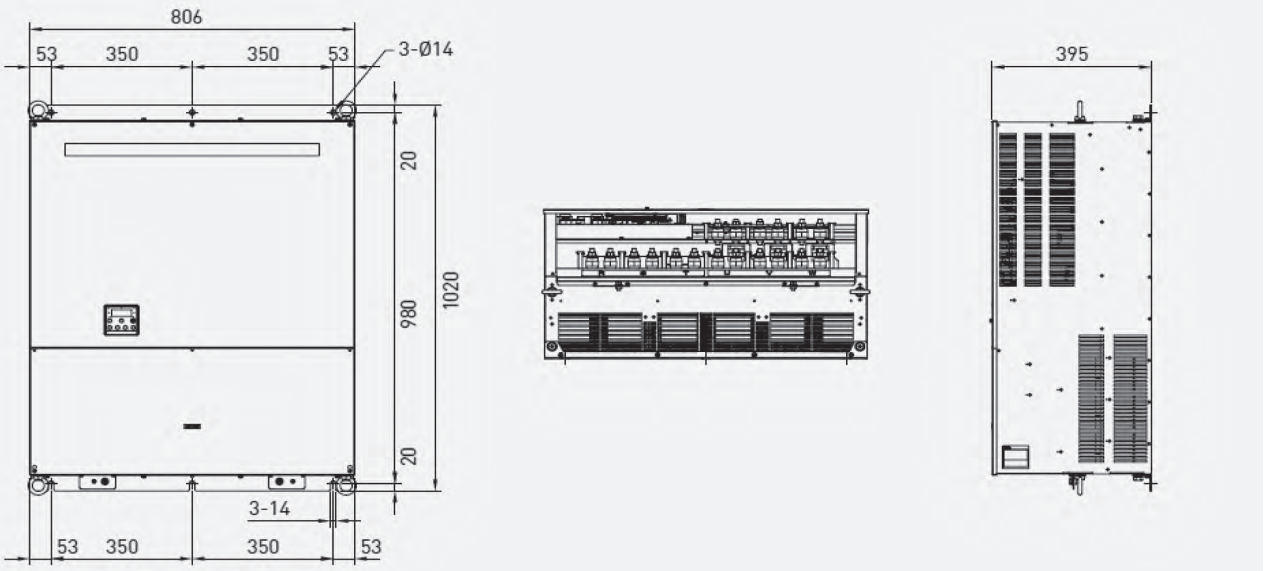
N700E-1100HF, N700E-1320HF




N700E-1600HF, N700E-2200HF




N700E-2800HF, N700E-3500HF



# WORLDWIDE MOTOR CONTROLS

## *Variable Frequency Drives*

### *WWEVFD Series General Purpose Drives*



## Product Overview

- General purpose drive variable and constant torque
- 6-digit digital display
- 400 Hz max. output
- Selectable carrier frequency
- Dynamic braking
- DC injection braking
- Can start into rotating load
- Keypad can be remote mounted
- Keypad can store programs to download to other drives

**Inputs**

2 Analog voltage or current
6 Multi-function digital
2 Fixed (forward & reverse)

**Outputs**

2 Analog multi-function
2 Solid state
2 Relay (1 NO and 1 form C)

| Max HP | Voltage | Amps | Model Number | List Price |
|---|---|---|---|---|
| 230 Volt | | | | |
| 1 | 230 | 5 | WWEVFD-1-230 | $548.00 |
| 2 | 230 | 8 | WWEVFD-2-230 | $740.00 |
| 3 | 230 | 11 | WWEVFD-3-230 | $992.00 |
| 5 | 230 | 17 | WWEVFD-5-230 | $1,032.00 |
| 7.5 | 230 | 25 | WWEVFD6-7.5-230 | $2,026.00 |
| 10 | 230 | 33 | WWEVFD6-10-230 | $2,596.00 |
| 15 | 230 | 46 | WWEVFD6-15-230 | $3,636.00 |
| 460 Volt | | | | |
| 1 | 460 | 1 | WWEVFD-1-460 | $700.00 |
| 2 | 460 | 2 | WWEVFD-2-460 | $800.00 |
| 3 | 460 | 3 | WWEVFD-3-460 | $888.00 |
| 5 | 460 | 5 | WWEVFD-5-460 | $1,064.00 |
| 7.5 | 460 | 7.5 | WWEVFD6-7.5-460 | $2,126.00 |
| 10 | 460 | 10 | WWEVFD6-10-460 | $2,455.00 |
| 15 | 460 | 15 | WWEVFD6-15-460 | $3,295.00 |
| 20 | 460 | 20 | WWEVFD6-20-460 | $3,979.00 |

# WORLDWIDE MOTOR CONTROLS

## *Variable Frequency Drives*

### *WWEVFD Series General Purpose Drives*

### *Accessories*







| Accessories | Model Number | List Price |
|---|---|---|
| NEMA Enclosure Kit For 1 - 5 HP Models | N1ENCL | $86.00 |
| Analog Keypad | WWE-202KP | $154.00 |
| Digital Keypad | WWE-201KP | $87.00 |
| Dynamic Brake Resistors | MHL100-100 | $66.00 |
| | MHL100-400 | $66.00 |
| | MHL500-40 | $200.00 |
| Remote Controller Base (internal) | A-01 | $44.00 |
| Remote Controller Base (external) | A-02 | $58.00 |
| Spare Fans For 1- 5 HP Models (2 per kit) | VFDFAN1-5 | $54.00 |
| ACL Reactors | ACL0.4mH-15A | $428.00 |
| | ACL0.2mH-30A | $536.00 |
| | ACL0.08mH-50A | $608.00 |
| | ACL0.07mH-75A | $720.00 |
| | ACL0.04mH-100A | $828.00 |
| | ACL0.03mH-150A | $952.00 |
| | ACL0.02mH-200A | $1,100.00 |
| | ACL0.015mH-300A | $1,204.00 |

Note: For enclosure options NEMA 12, 4, 3R and 4x please contact WorldWide Electric

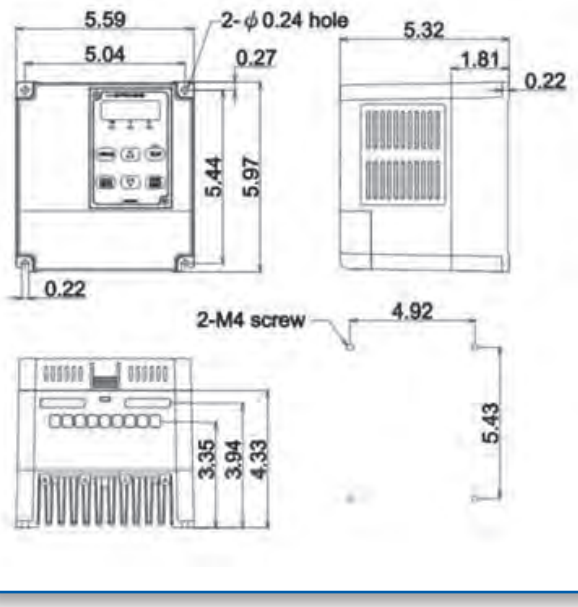
# WORLDWIDE MOTOR CONTROLS

## *Variable Frequency Drives*

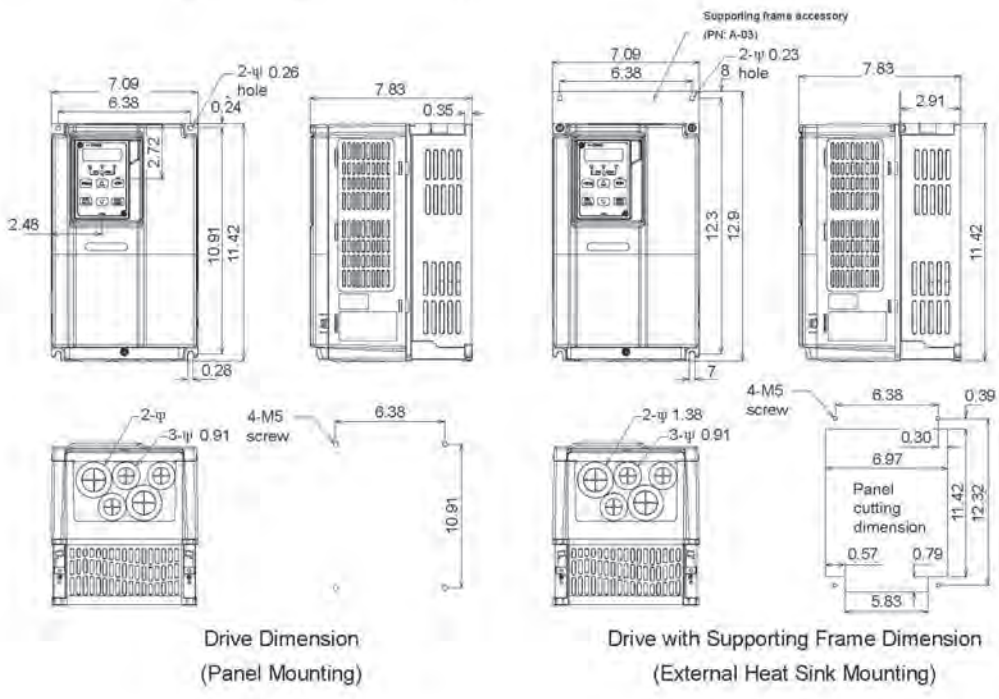
### *WWEVFD Series General Purpose Drives*

### *Drive Outline Drawings*

WWEVFD-1 - WWEVFD-5




WWEVFD6-7.5--WWEVFD6-20









## Product Overview

- Four point AC coil can be wired on top, bottom or diagonally
- Direct mount 3RU11 overload relays to create starters
- Snap-on auxiliary contacts, surge suppressors and timers
- 3RT01 contactors are available with cage clamps on the main terminal connections as well as the auxiliary terminal connections
- 3RT02, 3RT03 and 3RT04 contactors are available with cage clamps on the auxiliary terminals only
- Front and side mount auxiliary contacts available on 3RT102, 3RT103 and 3RT104 versions
- 3RT1029A and 12A version have extended electrical life compared to 3RT101 versions
- Accessories for the 3RT10 contactors are also available with cage clamp terminals

| Coil Table ** | | |
|---|---|---|
| 60 Hz Voltage | 50 Hz Voltage | Letter |
| 24 | 24 | C2* |
| 120 | 110 | K6 |
| 208 | 208 | M2 |
| 240 | 220 | P6 |
| 277 | — | U6 |
| 480 | — | V6 |
| 600 | — | T6 |

* For 3RT101 use B0

| Enclosed Amp Ratings | | Single-Phase HP Ratings | | Three-Phase HP Ratings | | | | Auxiliary Contacts | | Screw Terminals | | Cage Clamp Terminals | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AC3 | UL | 115 Volt | 230 Volt | 200 Volt | 230 Volt | 460 Volt | 575 Volt | NO | NC | Model Number | List Price | Model Number | List Price |
| 3RT101 | | | | | | | | | | | | | |
| 7 | 20 | ¼ | ¾ | 1.5 | 2 | 3 | 5 | 1 | — | 3RT1015-1A**1 | $135.50 | 3RT1015-2A**1 | $147.81 |
| | | | | | | | | — | 1 | 3RT1015-1A**2 | $135.50 | 3RT1015-2A**2 | $147.81 |
| 9 | 20 | ⅓ | 1 | 2 | 3 | 5 | 7.5 | 1 | — | 3RT1016-1A**1 | $177.38 | 3RT1016-2A**1 | $189.69 |
| | | | | | | | | — | 1 | 3RT1016-1A**2 | $177.38 | 3RT1016-2A**2 | $189.69 |
| 12 | 20 | ½ | 2 | 3 | 3 | 7.5 | 10 | 1 | — | 3RT1017-1A**1 | $219.26 | 3RT1017-2A**1 | $231.57 |
| | | | | | | | | — | 1 | 3RT1017-1A**2 | $219.26 | 3RT1017-2A**2 | $231.57 |
| 3RT102 | | | | | | | | | | | | | |
| 9 | 35 | ⅓ | 1 | 2 | 3 | 5 | 7.5 | — | — | 3RT1023-1A**0 | $199.55 | 3RT1023-3A**0 | $206.94 |
| 12 | 35 | ½ | 2 | 3 | 3 | 7.5 | 10 | — | — | 3RT1024-1A**0 | $258.67 | 3RT1024-3A**0 | $266.06 |
| 17 | 35 | 1 | 3 | 5 | 5 | 10 | 15 | — | — | 3RT1025-1A**0 | $298.09 | 3RT1025-3A**0 | $305.48 |
| 25 | 35 | 2 | 3 | 7.5 | 7.5 | 15 | 20 | — | — | 3RT1026-1A**0 | $335.04 | 3RT1026-3A**0 | $342.43 |
| 3RT103 | | | | | | | | | | | | | |
| 28 | 35 | 2 | 5 | 7.5 | 10 | 20 | 25 | — | — | 3RT1033-1A**0 | $384.31 | 3RT1033-3A**0 | $391.71 |
| 32 | 45 | 2 | 5 | 10 | 10 | 25 | 30 | — | — | 3RT1034-1A**0 | $423.73 | 3RT1034-3A**0 | $431.12 |
| 40 | 55 | 3 | 7.5 | 10 | 15 | 30 | 40 | — | — | 3RT1035-1A**0 | $470.54 | 3RT1035-3A**0 | $477.93 |
| 50 | 50 | 3 | 10 | 15 | 15 | 40 | 50 | — | — | 3RT1036-1A**0 | $507.50 | 3RT1036-3A**0 | $514.88 |
| 3RT104 | | | | | | | | | | | | | |
| 65 | 90 | 5 | 15 | 20 | 25 | 50 | 60 | — | — | 3RT1044-1A**0 | $716.90 | 3RT1044-3A**0 | $724.29 |
| 80 | 105 | 7.5 | 15 | 25 | 30 | 60 | 75 | — | — | 3RT1045-1A**0 | $815.44 | 3RT1045-3A**0 | $822.83 |
| 95 | 105 | 10 | — | 30 | 30 | 75 | 100 | — | — | 3RT1046-1A**0 | $1,115.99 | 3RT1046-3A**0 | $1,123.38 |

Replace the ** in the contactor model number with a coil code from the table above.

# WORLDWIDE MOTOR CONTROLS

## *IEC Contactors and Overload Relays*

### *IEC Contactors*

### *SIRIUS 3RT10 ▪ 3-Pole ▪ AC / DC Coil*





## Product Overview

- Easy access plug-in AC/DC coil system
- Integrated varistor surge suppressor
- Direct mount 3RB10 solid state overload relay to create starter
- Snap-on auxiliary contacts, surge suppressors and timers
- Front and side mounted auxiliary contacts from sizes 3RT102 through 3RT107

| Coil Table ** | |
|---|---|
| AC (40 Hz to 60 Hz) and DC | Letter |
| 23 to 26 | B3 |
| 42 to 48 | D3 |
| 110 to 127 | F3 |
| 200 to 220 | M3 |
| 220 to 240 | P3 |
| 240 to 277 | U3 |
| 380 to 420 | V3 |
| 440 to 480 | R3 |
| 500 to 550 | S3 |
| 575 to 600 | T3 |

| Enclosed Amp Ratings | | Three-Phase HP Ratings | | | | Auxiliary Contacts | | Model Number | List Price |
|---|---|---|---|---|---|---|---|---|---|
| AC3 | AC-1 | 200 Volt | 230 Volt | 460 Volt | 575 Volt | NO | NC | | |
| 3RT105 | | | | | | | | | |
| 115 | 160 | 40 | 50 | 100 | 125 | 2 | 2 | 3RT1054-6A**6 | $1,207.63 |
| 150 | 185 | 50 | 60 | 125 | 150 | 2 | 2 | 3RT1055-6A**6 | $1,737.51 |
| 185 | 215 | 60 | 75 | 150 | 200 | 2 | 2 | 3RT1056-6A**6 | $2,316.67 |
| 3RT106 | | | | | | | | | |
| 225 | 275 | 75 | 75 | 150 | 200 | 2 | 2 | 3RT1064-6A**6 | $2,538.48 |
| 265 | 330 | 75 | 100 | 200 | 250 | 2 | 2 | 3RT1065-6A**6 | $2,883.48 |
| 300 | 330 | 100 | 125 | 250 | 300 | 2 | 2 | 3RT1066-6A**6 | $3,930.90 |
| 3RT107 | | | | | | | | | |
| 400 | 430 | 125 | 150 | 300 | 400 | 2 | 2 | 3RT1075-6A**6 | $4,473.13 |
| 500 | 610 | 150 | 200 | 400 | 500 | 2 | 2 | 3RT1076-6A**6 | $11,903.96 |

Replace the ** in the contactor model number with a coil code from the table above.

### *IEC Overload Relays*

### *SIRIUS 3RB10 Solid State*



## Product Overview

- 1 NO and 1 NC auxiliary contacts
- Manual / automatic reset
- Trip indicator
- STOP button
- Test function
- Sealable cover

The 3RB20 solid-state overload relays are suitable for customers from all industries who want to provide optimum inverse-time delayed protection of their electrical loads under normal and heavy starting conditions, minimize project completion times, inventories and power consumption, and optimize plant availability and maintenance management.

| For Contactor Type | Setting Range Amp | Manual/Automatic Reset | | | |
|---|---|---|---|---|---|
| | | Class 10 | | Class 20 | |
| | | Model Number | List Price | Model Number | List Price |
| 3RB205 - For Direct Mounting To 3RT105 Contactors | | | | | |
| 3RT1054<br>3RT1055<br>3RT1056 | 50-200 | 3RB2056-1FW2 (1) | $671.53 | 3RB2056-2FW2 (1) | $671.11 |
| | 50-200 | 3RB2056-1FC2 (2) | $671.53 | 3RB2056-2FC2 (2) | $671.11 |
| 3RB206 - For Direct Mounting To 3RT106 & 3RT107 Contactors | | | | | |
| 3RT106 | 55-250 | 3RB2066-1GC2 (2) | $744.72 | 3RB2066-2GC2 (2) | $744.72 |
| 3RT107 | 160-630 | 3RB2066-1MC2 (2) | $983.58 | 3RB2066-2MC2 (2) | $977.58 |

(1) Overload contains pass through windows
(2) Overload has busbar connections




## Product Overview

- Provides optimum inverse-time delayed protection of loads against excessive temperature rises due to overload
- Provides optimum inverse-time delayed protection of loads against excessive temperature rises due to phase unbalance
- Minimizes heating of induction motors during phase failure
- Enables the protection of single-phase loads
- Manual or automatic resetting of the relay
- Allows the remote resetting of the relay
- Easy checking of the function and wiring

| For Contactor Type | Setting Range Amp | Screw Terminal Model Number | List Price |
|---|---|---|---|
| 3RU111 - For Direct Mounting To 3RT101 Contactors | | | |
| 3RT1015<br>3RT1016<br>3RT1017 | 0.11 - 0.16 | 3RU1116-0AB0 | $142.95 |
| | 0.14 - 0.2 | 3RU1116-0BB0 | |
| | 0.18 - 0.25 | 3RU1116-0CB0 | |
| | 0.22 - 0.32 | 3RU1116-0DBO | |
| | 0.28 - 0.4 | 3RU1116-0EB0 | |
| | 0.35 - 0.5 | 3RU1116-0FB0 | |
| | 0.45 -0.63 | 3RU1116-0GB0 | |
| | 0.55 - 0.8 | 3RU1116-0HB0 | |
| | 0.7 - 1.0 | 3RU1116-0JB0 | |
| | 0.9 - 1.25 | 3RU1116-0KB0 | |
| | 1.1 - 1.6 | 3RU1116-1AB0 | |
| | 1.4 - 2 | 3RU1116-1BB0 | |
| | 1.8 - 2.5 | 3RU1116-1CB0 | |
| | 2.2 - 3.2 | 3RU1116-1DB0 | |
| | 2.8 - 4 | 3RU1116-1EB0 | |
| | 3.5 - 5 | 3RU1116-1FB0 | |
| | 4.5 - 6.3 | 3RU1116-1GB0 | |
| | 5.5 - 8 | 3RU1116-1HB0 | |
| | 7 - 10 | 3RU1116-1JB0 | |
| | 9 - 12 | 3RU1116-1KB0 | |
| 3RU112 - For Direct Mounting To 3RT102 Contactors | | | |
| 3RT1023<br>3RT1024<br>3RT1025<br>3RT1026 | 1.8 - 2.5 | 3RU1126-1CB0 | $147.86 |
| | 2.2 - 3.2 | 3RU1126-1DB0 | |
| | 2.8 - 4 | 3RU1126-1EB0 | |
| | 3.5 - 5 | 3RU1126-1FB0 | |
| | 4.5 - 6.3 | 3RU1126-1GB0 | |
| | 5.5 - 8 | 3RU1126-1HB0 | |
| | 7 - 10 | 3RU1126-1JB0 | |
| | 9 - 12.5 | 3RU1126-1KB0 | |
| | 11 - 16 | 3RU1126-4AB0 | |
| | 14 - 20 | 3RU1126-4BB0 | |
| | 17 - 22 | 3RU1126-4CB0 | |
| | 20 - 25 | 3RU1126-4DB0 | |

| For Contactor Type | Setting Range Amp | Screw Terminal Model Number | List Price |
|---|---|---|---|
| 3RU113 - For Direct Mounting To 3RT103 Contactors | | | |
| 3RT1033<br>3RT1034<br>3RT1035<br>3RT1036 | 5.5 - 8 | 3RU1136-1HB0 | $174.98 |
| | 7 - 10 | 3RU1136-1JB0 | $174.98 |
| | 9 - 12.5 | 3RU1136-1KB0 | $174.98 |
| | 11 - 16 | 3RU1136-4AB0 | $174.98 |
| | 14 - 20 | 3RU1136-4BB0 | $174.98 |
| | 18 - 25 | 3RU1136-4DB0 | $174.98 |
| | 22 - 32 | 3RU1136-4EB0 | $219.34 |
| | 28 - 40 | 3RU1136-4FBO | $219.34 |
| | 36 - 45 | 3RU1136-4GB0 | $243.97 |
| | 40 - 50 | 3RU1136-4HB0 | $243.97 |
| 3RU114 - For Direct Mounting To 3RT104 Contactors | | | |
| 3RT1044<br>3RT1045<br>3RT1046 | 18 - 25 | 3RU1146-4DB0 | $253.84 |
| | 22 - 32 | 3RU1146-4EB0 | $253.84 |
| | 28 - 40 | 3RU1146-4FB0 | $253.84 |
| | 36 - 50 | 3RU1146-4HB0 | $278.47 |
| | 45 - 63 | 3RU1146-4JB0 | $278.47 |
| | 57 - 75 | 3RU1146-4KB0 | $303.16 |
| | 70 - 90 | 3RU1146-4LB0 | $352.43 |
| | 80 -100 | 3RU1146-4MB0 | $446.06 |

# WORLDWIDE MOTOR CONTROLS

## *IEC Contactors and Overload Relays*

### *IEC Contactors*

### *Auxiliary Contact Blocks*



**3RH1921-1FA****



**3RH1921-1KA20**



**3RH1921-1LA20**

## Product Overview

- The 3RH19 auxiliary contact blocks are available in:
  1, 2, 3, 4-pole front mount versions and 2-pole Side Mount versions
- The 3RH19 front mount auxiliary contacts are rated NEMA A600/Q600
- The 3RH1921 contact blocks will mount to all 3RT102, 3RT103, 3RT104, 3RT105, 3RT106 and 3RT107 contactors.
- Front mount auxiliary contacts come in three main versions:
  - For standard through wiring (HA, FA, FC, CA)
  - Cable entry from below (BA, MA) and
  - Cable entry from above
- The 3RH19 Side Mount auxiliary contacts are rated NEMA A300/Q300
- The 3RH1921-1EA** units are the standard side mount contact blocks. They can mount to either the left or right hand side of the contactor.
- The 3RH1921-1KA** contact blocks are designed to mount to the 3RH1921-1EA** blocks on a 3RT104 contactor

| Contactor Size | Max. Number of Auxiliary Contacts Total | Max. Number of Normally Open Contacts | Max Number of Normally Closed Contacts | Mounting Position |
|---|---|---|---|---|
| 3RT101 | 5 | 5 (1) | 3 (2) | FRONT |
| 3RT102 | 4 | 4 | 4 | FRONT and SIDE |
| 3RT103 | 4 | 4 | 4 | FRONT and SIDE |
| 3RT104 | 8 | 8 | 4 | FRONT and SIDE |
| 3RT105 | 8 | 4 | 4 | FRONT and SIDE |
| 3RT106 | 8 | 4 | 4 | FRONT and SIDE |
| 3RT107 | 8 | 4 | 4 | FRONT and SIDE |
| 3RT126 / 3RT127 | 4 | 2 | 2 | SIDE |

(1) With 1-NO contact built-in to contactor
(2) With 1-NC contact built-in to contactor

| Auxiliary Contacts | | | | Screw Terminals | | Cage Clamp Terminals | |
|---|---|---|---|---|---|---|---|
| NO | Early Make NC | Late Break NO | NC | Model Number | List Price | Model Number | List Price |
| **For 3RT1*2, 3RT1*3, 3RT1*4, 3RT1*5, 3RT1*6 and 3RT1*7 Contactors - Front Mount Version - NEMA A600/Q600 Rated** | | | | | | | |
| 4-Pole Auxiliary Contact Blocks - Terminals Are Marked With Positions 1 Through 4 | | | | | | | |
| 4 | — | — | — | 3RH1921-1FA40 | $98.59 | 3RH1921-2FA40 | $108.15 |
| 3 | 1 | — | — | 3RH1921-1FA31 | $98.59 | 3RH1921-2FA31 | $108.15 |
| 2 | 2 | — | — | 3RH1921-1FA22 | $98.59 | 3RH1921-2FA22 | $108.15 |
| — | 4 | — | — | 3RH1921-1FA04 | $98.59 | 3RH1921-2FA04 | $108.15 |
| — | — | 2 | 2 | 3RH1921-1FC22 | $133.09 | 3RH1921-2FC22 | $142.95 |
| 4-Pole Auxiliary Contact Blocks -Acc To EN50 012 | | | | | | | |
| 3 | 1 | — | — | 3RH1921-HA31 | $98.59 | 3RH1921-2HA31 | $108.45 |
| 2 | 2 | — | — | 3RH1921-1HA22 | $98.59 | 3RH1921-2HA22 | $108.45 |
| 1 | 3 | — | — | 3RH1921-IHA13 | $98.59 | 3RH1921-2HA13 | $108.45 |
| 1-Pole Auxiliary Contact Blocks | | | | | | | |
| 1 | — | — | — | 3RH1921-1CA10 | $24.63 | 3RH1921-2CA10 | $27.11 |
| — | 1 | — | — | 3RH1921-1CA01 | $24.63 | 3RH1921-2CA01 | $27.11 |
| — | — | 1 | — | 3RH1921-1CD10 | $49.27 | — | — |
| — | — | — | 1 | 3RH1921-1CD01 | $49.27 | — | — |
| 2-Pole - Cable Entry From Above | | | | | | | |
| 1 | 1 | — | — | 3RH1921-1LA11 | $49.27 | — | — |
| 2 | — | — | — | 3RH1921-1LA20 | $49.27 | — | — |
| -- | 2 | — | — | 3RH1921-1LA02 | $49.27 | — | — |
| 2-Pole - Cable Entry From Below | | | | | | | |
| 1 | 1 | — | — | 3RH1921-1MA11 | $49.27 | — | — |
| 2 | — | — | — | 3RH1921-1MA20 | $49.27 | — | — |
| — | 2 | — | — | 3RH1921-1MA02 | $49.27 | — | — |
| 4-Pole (1 NO, 1 NC Low Level Circuit - 1 NO, 1 NC Standard Auxiliary) | | | | | | | |
| 2 | 2 | — | — | 3RH1921-1FE22 | $194.70 | 3RH1921-2FE22 | $194.70 |
| **For 3RT1*2, 3RT*3 and 3RT106, 3RT107, 3RT126 and 3RT127 Contactors - First Side Mount - NEMA A300/Q300 Rated** | | | | | | | |
| 2-Pole Auxiliary Contact Blocks - Mountable On Either Left or Right - Acc. to EN50 005 | | | | | | | |
| 2 | — | — | — | 3RH1921-1EA20 | $49.27 | 3RH1921-2EA20 | $54.23 |
| 1 | 1 | — | — | 3RH1921-1EA11 | $49.27 | — | — |
| — | 2 | — | — | 3RH1921-1EA02 | $49.27 | 3RH1921-2EA02 | $54.23 |
| 2-Pole Auxiliary Contact Blocks - Mountable On Either Left or Right - Acc. To EN50 012 | | | | | | | |
| 1 | 1 | — | — | 3RH1921-1DA11 | $49.27 | 3RH1921-2DA11 | $54.23 |
| **For 3RT1*4 Through 3RT107 Contactors - Second Side Mount - NEMA A300/Q300 Rated** | | | | | | | |
| 2- Pole Auxiliary Contact Blocks - Mountable Onto a First Position Auxiliary On Either Left or Right (only on 3RT104 types) - Acc to EN5 005 | | | | | | | |
| 2 | — | — | — | 3RH1921-1KA20 | $49.27 | 3RH1921-2KA20 | $54.23 |
| 1 | 1 | — | — | 3RH1921-1KA11 | $49.27 | — | — |
| — | 2 | — | — | 3RH1921-1KA02 | $49.27 | 3RH1921-2KA02 | $54.23 |
| 2- Pole Auxiliary Contact Blocsk - Mountable Onto a First Position Auxiliary On Either Left or Right (only on 3RT104 through 3RT107 types) - Acc to EN5 012 (1) | | | | | | | |
| 1 | 1 | — | — | 3RH1921-1JA11 | $49.27 | 3RH1921-2JA11 | $54.23 |

(1) Can only be used if no 4-pole auxiliary contact blocks are snapped onto the front

# WORLDWIDE MOTOR CONTROLS

## *IEC Contactors and Overload Relays*

### *Manual Motor Starters / Protectors*

### *Class 11 - 3RV ▪ Three-Phase*



**Open Type**




**NEMA 1**




**NEMA 7 & 9**
**NEMA 3 & 4**

## Product Overview

- ON/OFF rotary handle with lockout and visible trip indication
- Adjustment dial for setting to motor FLA (standards only)
- Low voltage protection (LVP) option
- Short circuit trip at 13 times the maximum setting of the FLA dial or rated current
- Ambient compensated up to 140 °F
- Phase loss sensitivity
- Test trip function
- LVP option meets OSHA requirements
- UL Listed
- CSA Certified

| Low Voltage Protection Coil Table | |
|---|---|
| 60 Hz Voltage | Letter |
| 120 | F* |
| 208 | D* |
| 240 | G* |
| 460 | H* |

* Add corresponding letter to end of base class 11 model number for low voltage protection coil

| FLA Adj. Range (1) | HP | | | | | | Enclosure | |
|---|---|---|---|---|---|---|---|---|
| | Single Phase | | Three-Phase | | | | Open | |
| | 115 Volts | 230 Volts | 200 Volts | 230 Volts | 460 Volts | 575 Volts | Model Number | List Price |
| **Manual Starters - Class 11 - 3RV, 3 Phase** | | | | | | | | |
| 0.11-016 | — | — | — | — | — | — | 3RV1021-0AA10 | $334.86 |
| 0.14-0.2 | — | — | — | — | — | — | 3RV1021-0BA10 | $334.86 |
| 0.18-0.25 | — | — | — | — | — | — | 3RV1021-0CA10 | $334.86 |
| 0.22-0.32 | — | — | — | — | — | — | 3RV1021-0DA10 | $334.86 |
| 0.28-0.4 | — | — | — | — | — | — | 3RV1021-0EA10 | $334.86 |
| 0.35-.05 | — | — | — | — | — | — | 3RV1021-0FA10 | $369.35 |
| 0.45-0.63 | — | — | — | — | — | — | 3RV1021-0GA10 | $369.35 |
| 0.55-0.8 | — | — | — | — | — | ½ | 3RV1021-0HA10 | $369.35 |
| 0.7-1 | — | — | — | — | ½ | ½ | 3RV1021-0JA10 | $369.35 |
| 0.9-1.25 | — | — | — | — | ¾ | ¾ | 3RV1021-OKA10 | $369.35 |
| 1.1-1.6 | — | 1/10 | — | — | ¾ | 1 | 3RV1021-1AA10 | $369.35 |
| 1.4-2 | — | ⅛ | — | — | 1 | 1.5 | 3RV1021-1BA10 | $369.35 |
| 1.8-2.5 | — | ⅙ | ½ | ½ | 1.5 | 1.5 | 3RV1021-1CA10 | $369.35 |
| 2.2-3.2 | 1/10 | ¼ | ¾ | ¾ | 1.5 | 2 | 3RV1021-1DA10 | $369.35 |
| 2.8-4 | ⅛ | ⅓ | ¾ | 1 | 2 | 3 | 3RV1021-1EA10 | $369.35 |
| 3.5-5 | ⅙ | ½ | 1 | 1 | 3 | 3 | 3RV1021-1FA10 | $369.35 |
| 4.5-6.3 | ¼ | ¾ | 1.5 | 1.5 | 5 | 5 | 3RV1021-1GA10 | $369.35 |
| 5.5-8 | ⅓ | 1 | 2 | 2 | 5 | 5 | 3RV1021-1HA10 | $369.35 |
| 7-10 | ½ | 1.5 | 3 | 3 | 7.5 | 10 | 3RV1021-1JA10 | $369.35 |
| 9-12.5 | ½ | 2 | 3 | 3 | 7.5 | 10 | 3RV1021-1KA10 | $440.78 |
| 11-16 | 1 | 3 | 5 | 5 | 10 | 15 (2) | 3RV1021-4AA10 | $440.78 |
| 14-20 | 1.5 | 3 | 5 | 7.5 | 15 | 20 (2) | 3RV1021-4BA10 | $440.78 |
| 17-22 | 2 | 3 | 7.5 | 7.5 | 15 | 20 (2) | 3RV1021-4CA10 | $440.78 |
| 20-25 | 2 (2) | 5 (2) | 7.5 (2) | 7.5 (2) | 15 | 20 (2) | 3RV1021-4DA10 | $440.78 |
| **Manual Switches - Class 11 - 3RV, 3 Phase** | | | | | | | | |
| 1 | — | — | — | — | ½ | ½ (2) | 3RV1321-OJC10 | $357.05 |
| 5 | ⅙ (2) | ½ (2) | 1 (2) | 1 (2) | 3 (2) | 3 (2) | 3RV1321-1FC10 | $357.05 |
| 10 | ½ (2) | 1.5 (2) | 3 (2) | 3 (2) | 7.5 (2) | 10 (2) | 3RV1321-1JC10 | $357.05 |
| 20 | 1.5 (2) | 3 (2) | 5 (2) | 7.5 (2) | 15 (2) | 20 (2) | 3RV1321-4BC10 | $428.43 |
| 25 | 2 (2) | 5 (2) | 7.5 (2) | 7.5 (2) | 15 (2) | 20 (2) | 3RV1321-4DC10 | $428.43 |

Please call for technical data and model numbers for enclosures: NEMA 1, NEMA 7 & 9, NEMA 3 & 4

(1) Instantaneous magnetic trip will occur at 13 times the maximum FLA dial setting or rated switch current.

(2) These ratings apply for manual motor controllers only.

These ratings do not apply as UL Listed manual combination starters.

# WORLDWIDE MOTOR CONTROLS

## *IEC Contactors and Overload Relays*

### *WALS Across-Line Starters*

### *Three-Phase ▪ Three-Phase With 115 Volt Coil*





**WALS5/460/5-8**

## Product Overview

- 2HP - 200HP
- Multiple AC coil 208, 230, 460 & 575 volt
- Adjustable differential thermal overload for better motor protection
- Conduit knockouts for easy wiring
- Pre-wired, simple 3 wire IN/OUT
- Auxiliary contacts
- 3 Pole contacts

## Applications

- Fans
- Pumps
- Grinders
- Conveyors
- Bench saws
- Compressors
- Food processing equipment
- Farm Equipment application
- Commercial & residential use

| HP | Voltage | Amp Range | Model Number | List Price |
|---|---|---|---|---|
| Three-Phase | | | | |
| 2 | 230 | 5-8 | WALS2/230/5-8 | $149.40 |
| 5 | 460 | 5-8 | WALS5/460/5-8 | $149.40 |
| 3 | 230 | 7-10 | WALS3/230/7-10 | $156.71 |
| 3 | 230 | 9-15 | WALS3/230/9-13 | $156.71 |
| 7.5 | 460 | 9-13 | WALS7.5/460/9-13 | $158.93 |
| 5 | 230 | 12-18 | WALS5/230/12-18 | $166.29 |
| 10 | 460 | 12-18 | WALS10/460/12-18 | $157.96 |
| 7.5 | 230 | 18-26 | WALS7.5/230/18-26 | $165.07 |
| 10 | 230 | 24-36 | WALS10/230/24-36 | $213.13 |
| 20 | 460 | 24-36 | WALS20/460/24-36 | $238.25 |
| 25 | 460 | 28-40 | WALS25/460/28-40 | $255.14 |
| 15 | 230 | 34-50 | WALS15/230/35-50 | $342.99 |
| 30 | 460 | 34-50 | WALS30/460/34-50 | $349.98 |
| 20 | 230 | 45-65 | WALS20/230/45-65 | $349.98 |
| 40 | 460 | 45-65 | WALS40/460/45-65 | $401.02 |
| 25 | 230 | 54-75 | WALS25/230/54-75 | $404.23 |
| 50 | 460 | 54-75 | WALS50/460/54-75 | $404.23 |
| 30 | 230 | 63-85 | WALS30/230/63-85 | $407.42 |
| 30 | 230 | 65-100 | WALS30/100-240/65-100 | $635.87 |
| 60 | 460 | 65-100 | WALS60/460-575/65-100 | $721.98 |
| 40 | 100-240 | 85-125 | WALS40/100-240/85-125 | $721.98 |
| 75 | 440-575 | 85-125 | WALS75/440-575/85-125 | $721.98 |
| 50 | 100-240 | 100-150 | WALS50/100-240/100-150 | $929.58 |
| 100 | 440-575 | 100-150 | WALS100/440-575/100-150 | $929.58 |
| 60 | 100-240 | 120-180 | WALS60/120-240/120-180 | $1,610.89 |
| 125 | 440-575 | 120-180 | WALS125/440-575/120-180 | $1,610.89 |
| 75 | 100-240 | 160-240 | WALS75/100-240/160-240 | $1,686.84 |
| 150 | 440-575 | 160-240 | WALS150/440-575/160-240 | $1,686.84 |
| 100 | 100-240 | 220-300 | WALS100/100-240/220-300 | $1,987.44 |
| 200 | 440-575 | 220-300 | WALS200/440-575/220-300 | $1,987.44 |

| HP | Voltage | Amp Range | Model Number | List Price |
|---|---|---|---|---|
| Three-Phase - With 115 Volt Coil | | | | |
| 2-5 | 230/460 | 5-8 | WALS2-5/115/5-8 | $149.40 |
| 3 | 230 | 7-10 | WALS3/115/7-10 | $156.71 |
| 3-7.5 | 460 | 9-13 | WALS3-7.5/115/12-18 | $156.71 |
| 5-10 | 230/460 | 12-18 | WALS5-10/115/12-18 | $166.29 |
| 7.5 | 230 | 18-26 | WALS7.5/115/18-26 | $165.07 |
| 10-20 | 230/460 | 24-36 | WALS10-20/115/24-36 | $213.13 |
| 25 | 460 | 28-40 | WALS25/115/28-240 | $255.14 |
| 15-30 | 230/460 | 34-50 | WALS15-30/115/34-50 | $342.99 |
| 20-40 | 230/460 | 45-65 | WALS20-40/115/46-56 | $401.02 |
| 25-50 | 230/460 | 54-75 | WALS25-50/115/54-75 | $404.23 |
| 30 | 230 | 63-85 | WALS30/115/63-85 | $407.42 |

| Coil Table | | |
|---|---|---|
| 60 Hz Voltage | 50 Hz Voltage | DC |
| 24 | 24 - 25 | 24 |
| 48 | 48 - 50 | 48 |
| 100/200 | 100 - 240 | 100-200 |
| 300 | 265 - 347 | — |
| 400 | 380 - 450 | — |
| 500 | 440 - 575 | — |

# WORLDWIDE MOTOR CONTROLS

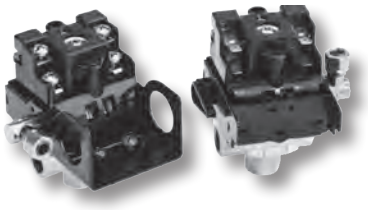
## *Pressure Switches*

### *HUBBELL Pressure Switches*

### *Formerly Manufactured by FURNAS*

| Model Number | Cut-In (PSI) | Cut-Out (PSI) | List Price |
|---|---|---|---|
| **Pressure Switches - Air** | | | |
| 69MB6 | 80 | 100 | $46.21 |
| 69JF6 | 80 | 100 | $36.16 |
| 69MB6L | 80 | 100 | $52.24 |
| 69MB6LY | 80 | 100 | $60.27 |
| 69JF6LY | 80 | 100 | $44.20 |
| 69MB6LY2C | 80 | 100 | $68.31 |
| 69MB6Y | 80 | 100 | $54.24 |
| 69MB6YZ30-50 | 30 | 50 | $54.24 |
| 69JF6Y | 80 | 100 | $42.19 |
| 69MB7 | 95 | 125 | $46.21 |
| 69JF7 | 95 | 125 | $36.16 |
| 69MB7L | 95 | 125 | $52.24 |
| 69JF7L | 95 | 125 | $38.17 |
| 69MB7LY | 95 | 125 | $60.27 |
| 69JF7LY | 95 | 125 | $44.20 |
| 69MB7LY2A | 95 | 125 | $60.27 |
| 69JF7LY2A | 95 | 125 | $47.21 |
| 69MB7LY2C | 95 | 125 | $68.31 |
| 69JF7LY2C | 95 | 125 | $51.23 |
| 69MB7Y | 95 | 125 | $54.24 |
| 69JF7Y | 95 | 125 | $42.19 |
| 69MB7Y2C | 95 | 125 | $62.28 |
| 69MB8 | 115 | 150 | $46.21 |
| 69JF8 | 115 | 150 | $36.16 |
| 69MB8L | 115 | 150 | $52.24 |
| 69MB8LY | 115 | 150 | $60.27 |
| 69JF8LY | 115 | 150 | $44.20 |
| 69MB8LY2C | 115 | 150 | $68.31 |
| 69JF8LY2C | 115 | 150 | $51.23 |
| 69MB8Y | 115 | 150 | $54.24 |
| 69JF8Y | 115 | 150 | $42.19 |
| 69MB8YZ140-175 | 140 | 175 | $54.24 |
| 69MB8Z140-175 | 140 | 175 | $46.21 |
| 69JF9 | 140 | 175 | $36.16 |
| 69JF92C | 140 | 175 | $40.18 |
| 69JF9LY | 140 | 175 | $44.20 |
| 69JF9LY2C | 140 | 175 | $51.23 |
| 69JF9Y | 140 | 175 | $42.19 |
| 69MC6 | 80 | 100 | $61.48 |
| 69JG6 | 80 | 100 | $49.22 |
| 69MC6L | 80 | 100 | $67.50 |
| 69MC6LY | 80 | 100 | $76.34 |
| 69JG6LY | 80 | 100 | $57.26 |
| 69MC6Y | 80 | 100 | $74.33 |
| 69JG6Y | 80 | 100 | $55.25 |
| 69MC7 | 95 | 125 | $61.48 |
| 69JG7 | 95 | 125 | $49.22 |
| 69MC7L | 95 | 125 | $67.50 |

| Model Number | Cut-In (PSI) | Cut-Out (PSI) | List Price |
|---|---|---|---|
| **Pressure Switches - Air** | | | |
| 69MC7LY | 95 | 125 | $76.34 |
| 69JG7LY | 95 | 125 | $57.26 |
| 69MC7LY2C | 95 | 125 | $84.38 |
| 69JG7LY2C | 95 | 125 | $64.29 |
| 69MC7Y | 95 | 125 | $74.33 |
| 69JG7Y | 95 | 125 | $55.25 |
| 69MC8 | 115 | 150 | $61.48 |
| 69JG8 | 115 | 150 | $49.22 |
| 69MC8L | 115 | 150 | $67.50 |
| 69MC8LY | 115 | 150 | $76.34 |
| 69JG8LY | 115 | 150 | $57.26 |
| 69MC8LY2C | 115 | 150 | $84.38 |
| 69JG8LY2C | 115 | 150 | $64.29 |
| 69MC8Y | 115 | 150 | $74.33 |
| 69JG8Y | 115 | 150 | $55.25 |
| 69JG9 | 140 | 175 | $49.22 |
| 69JG9LY | 140 | 175 | $57.26 |
| 69JG9LY2C | 140 | 175 | $64.29 |
| 69JG9Y | 140 | 175 | $55.25 |
| 69JG9Y2C | 140 | 175 | $61.96 |
| 69HA1 | 115 | 150 | $188.85 |
| 69HA12S | 115 | 150 | $188.85 |
| 69HA1Z140-175 | 140 | 175 | $188.85 |
| 69HAU1 | 115 | 150 | $200.90 |
| 69HAU12AZ140-175 | 140 | 175 | $200.90 |
| 69HAU1Z1140-175 | 140 | 175 | $200.90 |
| 69HAU2 | 100 | 125 | $200.90 |
| 69HAU3 | 300 | 40 | $200.90 |
| 69HB1 | 115 | 150 | $200.90 |
| 69HBU1 | 115 | 150 | $212.96 |
| 69HB2 | 100 | 125 | $200.90 |
| 69HBU2 | 100 | 125 | $212.96 |
| 69HBU3 | 30 | 40 | $212.96 |
| **Pressure Switches - Water** | | | |
| 69ES1 | 30 | 50 | $54.24 |
| 69ES1Z20-40 | 20 | 40 | $54.24 |
| 69ES1Z40-60 | 40 | 60 | $54.24 |
| 69ES2 | 30 | 50 | $64.29 |
| 69ES2B | 30 | 50 | $66.30 |
| 69WA4 | 30 | 50 | $54.24 |
| 69WA4B | 30 | 50 | $55.25 |
| 69WA4L | 30 | 50 | $56.25 |
| 69WA4LZ20-40 | 20 | 40 | $56.25 |
| 69WA4Z20-40 | 20 | 40 | $54.24 |
| 69WA4Z40-60 | 40 | 60 | $54.24 |
| 69WB2 | 3 | 7 | $48.22 |
| 69WB3 | 5 | 10 | $57.26 |
| 69WB5 | 30 | 50 | $56.25 |



### 69J/69M Series

- 1/4″ Female NPT with pulsation orifice
- 69J Rotatable unloader
- 69M Stationary unloader

| Suffix | Description |
|---|---|
| L | AUTO-OFF disconnect lever |
| Y | Unloader valve |
| 2A | 1/4″ Male NPT |
| 2C | Four-port manifold (4 x 1.4″ female) |

### 69H Series

- 3/8″ Female NPT with pulsation orifice

| Suffix | Description |
|---|---|
| U | AUTO-OFF disconnect lever |
| 2A | 1/4″ Male NPT |
| 2S | 1/4″ Female NPT |

### 69ES Series

- 1/4″ Female NPT pipe fitting

| Suffix | Description |
|---|---|
| B | Pulsation orifice |

### 69W Series

- 1/4″ Female NPT pipe fitting

| Suffix | Description |
|---|---|
| B | Pulsation orifice |
| L | AUTO-OFF disconnect lever |

| Model Number | Cut-In (PSI) | Cut-Out (PSI) | List Price |
|---|---|---|---|
| **Pressure Switches - Water** | | | |
| 69WC7 | 12 | 150 | $56.25 |
| 69WEC | 20 | 40 | $58.26 |
| 69WFC | 20 | 40 | $74.33 |
| 69WH6 | 80 | 150 | $62.28 |
| 69WR2 | 7 | 3 | $66.30 |
| 69WR3 | 10 | 5 | $66.30 |
| 69WR5 | 50 | 30 | $57.26 |
| 69WR7 | 125 | 95 | $54.24 |
| **Spare Unloader Valves** | | | |
| 69DCA | — | — | $19.09 |
| 69DJA | — | — | $19.09 |

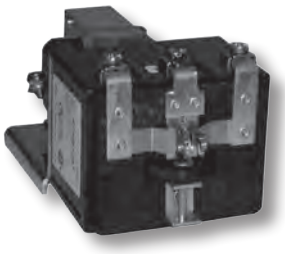
# WORLDWIDE MOTOR CONTROLS

## *Alternator Relays*

## *HUBBELL Alternator Relays*

## *Formerly Manufactured By FURNAS*



## Product Overview

- Single pole double throw heavy duty 10 amp silver cadmium oxide contacts enclosed in a transparent dust cover
- The circuit is never closed or opened while current is being conducted (this provides increased control life)
- No load transfer
- Front wired
- Industrial/rugged design

## Electrical Ratings

- NEMA AC ratings 50/60 Hz
- NEMA A600 10 continuous amps

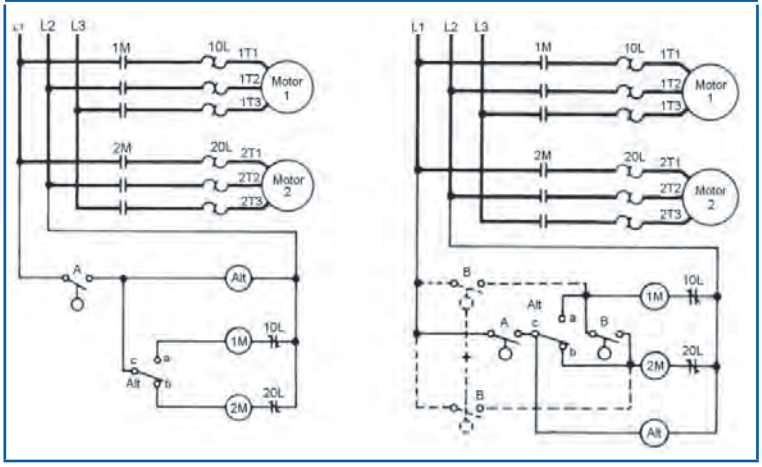


| Electrical Ratings | | |
|---|---|---|
| Volts | Make | Break |
| 120 | 60 | 6 |
| 240 | 30 | 3 |
| 480 | 15 | 1.5 |

| Volts 60 Hz | Open Type | | NEMA 1 General Purpose | |
|---|---|---|---|---|
| | Model Number | List Price | Model Number | List Price |
| 24 | 47AB10AJ | $686.16 | 47AB10BJ | $1091.19 |
| 120 | 47AB10AF | $686.16 | 47AB10BF | $1091.19 |
| 200 | 47AB10AD | $686.16 | 47AB10BD | $1091.19 |
| 240 | 47AB10AG | $686.16 | 47AB10BG | $1091.19 |
| 480 | 47AB10AH | $686.16 | 47AB10BH | $1091.19 |

| Coil Table | | | | | |
|---|---|---|---|---|---|
| Watts | Volts 60 Hz | Inrush Open Magnet | | Normal Sealed Magnet | |
| | | Amps | VA | Amps | VA |
| 4 | 24 | 4.0 | — | 0.629 | — |
| | 120 | 0.8 | — | 0.126 | — |
| | 240 | 0.4 | 96 | 0.063 | 15.1 |
| | 480 | 0.2 | — | 0.031 | — |

Wiring Diagrams (typical)




See dotted wiring:
For added safety, replace the single pole float switch (B)
With a 2 pole auxiliary (B) float switch
Switch (A) is set to close before switch (B)

# WORLDWIDE MOTOR CONTROLS

## *Drum Controllers*

## *HUBBELL Drum Controllers*

## *Formerly Manufactured By FURNAS*



### Product Overview

- Start, stop and change the speed and/or rotating direction of reversible AC and DC motors.
- Variety of handle styles are available as field modifications.
- Magnetic chuck switches are also available
- Variety of enclosures NEMA 1, NEMA 3R and NEMA 4
- Easy terminal access
- Heavy duty contacts

**Note:** To prevent unintentional operation, OSHA regulations and local installation codes may require guarding of handles. Consult these requirements prior to selecting a drum switch or handle.

| Type / Purpose | Max. HP | | | | | | Enclosure | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Single-Phase AC | | | Three-Phase AC | | DC | NEMA 1 | | NEMA 3R | |
| | 120 Volts | 240 Volts | 480 Volts | 240 Volts | 480-600 Volts | 120-240 Volts | Model Number | List Price Each | Model Number | List Price Each |
| Reversing / Maintaining | 1.5 | 2 | — | 2 | 2 | ¼ | 58R44 (2) | $599.92 | WR44 (1) | $953.00 |
| Reversing / Maintaining | 1.5 | 2 | 3 | 3 | 3 | 1 | J2 (2) | $794.17 | — | — |
| Reversing / Maintaining | 2 | 3 | — | 5 | 7.5 | 2 | J5 (2) | $1,032.42 | WJ5 (2) | $1,429.50 |

(1) The WR44 is maintained only
(2) Switch is shipped maintained - customer adjustable to momentary

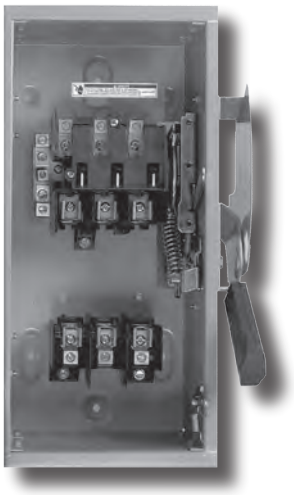
# WORLDWIDE MOTOR CONTROLS

## *Safety Switches*

## *VBII Safety Switches*

## *General Duty ▪ 240 Volt*



## Product Overview

- Highly visible easy-to-grip handle
- Visible blade construction
- Door opens greater than 180°
- Quick-make, quick-break mechanism
- 200% optional neutrals (200-600 Amps)
- Positive two and three point mounting
- Padlock style cover latch and handle
- Generous wiring gutter
- Front removable lugs which can easily be converted to copper body or compression type lugs
- Lugs suitable for copper or aluminium at 60°C or 75°C
- Replacement parts

VBII safety switches are built to last. Everything about the VBII safety switch has been designed for the engineering and installer. We have rolled the enclosure's metal edges and corners to minimize cuts, nicks, and scrapes to the installer's hands and conductors. We have added generous wiring gutters to meet or exceed UL and NEC wire bending space requirements.

The enclosure is more rigid and resilient and all parts are replaceable for easier service. Our quick-make quick-break switching action coupled with our double break visible blade design ensures reliable operation in both general duty and heavy duty applications.



| Amp Rating | NEMA 1 Indoor | | NEMA 3R Outdoor | | Horsepower Rating 240V AC | | | |
|---|---|---|---|---|---|---|---|---|
| | Model Number | List Price | Model Number | List Price | Single Phase, 2-Wire | | Three Phase, 3-Wire | |
| | | | | | Std. | Max. | Std. | Max. |
| 240 Volt Fusible - 2-Pole, 2-Fuse, Solid Neutral | | | | | | | | |
| 30 | GF221N | $63.06 | GF221NR | $100.10 | 1.5 | 3 | 3 | 7.5 |
| 60 | GF222N | $107.41 | GF222NR | $165.21 | 3 | 10 | 7.5 | 15 |
| 100 | GF223N | $216.07 | GF223NR | $243.34 | 7.5 | 15 | 15 | 30 |
| 200 | GF224N | $448.40 | GF224NR | $636.39 | 15 | — | 25 | 60 |
| 400 | GF225N | $1,371.28 | GF225NR | $1,855.51 | 15 | — | 50 | 125 |
| 600 | GF226N | $2,703.51 | GR226NR | $3,426.19 | 15 | — | 75 | 200 |
| 240 Volt Fusible - 3-Pole, 3 Fuse, Solid Neutral | | | | | | | | |
| 30 | GF321N | $100.10 | GF321NR | $149.35 | 1.5 | 3 | 3 | 7.5 |
| 60 | GF322N | $165.21 | GF322NR | $224.62 | 3 | 10 | 7.5 | 15 |
| 100 | GF323N | $287.69 | GF323NR | $415.06 | 7.5 | 15 | 15 | 30 |
| 200 | GF324N | $636.39 | GF324NR | $753.61 | 15 | — | 25 | 60 |
| 400 | GF325N | $1,625.19 | GF325NR | $1,955.61 | 15 | — | 50 | 125 |
| 600 | GF326N | $3,027.80 | GF326NR | $4,056.88 | 15 | — | 75 | 200 |
| 240 Volt Non Fusible - 3-Pole, 3-Wire, No Neutral - Also Used For 2-Pole Applications | | | | | | | | |
| 30 | GNF321 | $82.19 | GNF321R | $149.35 | — | 3 | 7.5 | — |
| 60 | GNF322 | $103.35 | GNF322R | $230.73 | — | 10 | 15 | — |
| 100 | GNF323 | $243.34 | GNF323R | $415.06 | — | 15 | 30 | — |
| 200 | GNF324 | $438.24 | GNF324R | $744.25 | — | 15 | 60 | — |
| 400 | GNF325 | $1,125.53 | HNF365R | $2,030.49 | — | 15 | 125 | — |
| 600 | GNF326 | $2,150.91 | HNF366R | $4,028.40 | — | 15 | 200 | — |

# WORLDWIDE MOTOR CONTROLS

## *Safety Switches*

## *VBII Safety Switches*

## *Heavy Duty ▪ 240 Volt & 600 Volt*



| Heavy Duty - 240 Volt | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Amp Rating | NEMA 1 Indoor | | NEMA 3R Outdoor | | Horsepower Rating 240V AC | | | |
| | | | | | Single Phase, 2-Wire | | Three Phase, 3-Wire | |
| | Model Number | List Price | Model Number | List Price | Std. | Max. | Std. | Max. |
| 240 Volt Fusible - 2-Pole, 2-Fuse, Solid Neutral | | | | | | | | |
| 30 | HF221N | $126.53 | HF22NR | $240.49 | 1.5 | 3 | 3 | 7.5 |
| 60 | HF222N | $253.50 | HF222NR | $451.66 | 3 | 10 | 7.5 | 15 |
| 100 | HF223N | $386.54 | HF223NR | $580.68 | 7.5 | 15 | 15 | 30 |
| 200 | HF224N | $687.29 | HF224NR | $840.69 | 15 | — | 25 | 60 |
| 400 | HF225N | $885.72 | HF225NR | $2,254.27 | 15 | — | 50 | 125 |
| 600 | HF226N | $3,098.61 | HF226NR | $4,129.30 | 15 | — | 75 | 200 |
| 800 | HF227N | $5,496.93 | HF227NR | $6,561.80 | — | — | 100 | 250 |
| 1200 | HF228N | $6,768.51 | HF228NR | $9,124.92 | — | — | 100 | 250 |
| 240 Volt Fusible - 3-Pole, 3-Fuse, Solid Neutral | | | | | | | | |
| 30 | HF321N | $159.51 | HF321NR | $306.41 | 1.5 | 3 | 3 | 7.5 |
| 60 | HF322N | $270.58 | HF322NR | $484.23 | 3 | 10 | 7.5 | 15 |
| 100 | HF323N | $448.00 | HF323NR | $692.55 | 7.5 | 15 | 15 | 30 |
| 200 | HF324N | $776.38 | HF324NR | $942.00 | 15 | — | 25 | 60 |
| 400 | HF325N | $2,068.33 | HF325NR | $2,307.17 | 15 | — | 50 | 125 |
| 600 | HF326N | $3,512.43 | HF326NR | $4,642.42 | 15 | — | 75 | 200 |
| 800 | HF327N | $6,720.51 | HF327NR | $8,592.29 | — | — | 100 | 250 |
| 1200 | HF328N | $8,379.47 | HF328NR | $10,431.13 | — | -- | 100 | 250 |

## Product Overview

- Highly visible easy-to-grip handle
- Visible blade construction
- Door opens greater than 180°
- All copper current carrying parts on heavy duty switches (except wire grips)
- Quick-make, quick-break mechanism
- 200% optional neutrals (200-600 Amps)
- Positive two and three point mounting
- Padlock style cover latch and handle
- Generous wiring gutter
- Front removable lugs which can easily be converted to copper body or compression type lugs
- Lugs suitable for copper or aluminium at 60°C or 75°C
- Generous wiring gutter
- Replacement parts

| Heavy Duty - 600 Volt | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Amp Rating | NEMA 1 Indoor | | NEMA 3R Outdoor | | NEMA 12 Industrial | | Horsepower Rating 240V AC | | | |
| | | | | | | | Single Phase, 2-Wire | | Three Phase, 3-Wire | |
| | Model Number | List Price | Model Number | List Price | Model Number | List Price | Std. | Max. | Std. | Max. |
| 600 Volt Fusible - 3-Pole, 3-Fuse, No Neutral - Also Used For 2-Pole Applications | | | | | | | | | | |
| 30 | HF361 | $275.48 | HF361R | $477.28 | HF361J | $494.80 | 5 | 15 | 7.5 | 20 |
| 60 | HF362 | $327.98 | HF362R | $559.51 | HF362J | $565.62 | 15 | 30 | 15 | 50 |
| 100 | HF363 | $643.34 | HF363R | $883.79 | HF363J | $893.15 | 25 | 60 | 30 | 75 |
| 200 | HF364 | $904.96 | HF364R | $1,208.11 | HF364J | $1,239.45 | 50 | 125 | 60 | 150 |
| 400 | HF365 | $2,421.93 | HF365R | $2,918.74 | HF365J | $2,966.38 | 100 | 250 | 125 | 350 |
| 600 | HF366 | $4,204.58 | HF366R | $5,785.82 | HF366J | $5,798.43 | 150 | 400 | 200 | 500 |
| 800 | HF367 | $7,330.87 | HF367R | $8,888.13 | HF367J | $8,618.76 | 200 | 500 | 250 | 500 |
| 1200 | HF368 | $9,258.41 | HF368R | $10,936.09 | — | — | — | — | — | — |
| 600 Volt Non-Fusible - 3-Pole, 3-Wire | | | | | | | | | | |
| 30 | HNF361 | $148.10 | HNF361R | $236.27 | HNF361J | $331.63 | — | 20 | — | 30 |
| 60 | HNF362 | $263.27 | HNF362R | $463.06 | HNF362J | $467.52 | — | 50 | — | 60 |
| 100 | HNF363 | $427.68 | HNF363R | $661.22 | HNF363J | $669.37 | — | 75 | — | 100 |
| 200 | HNF364 | $650.25 | HNF364R | $799.16 | HNF364J | $837.00 | — | 125 | — | 150 |
| 400 | HNF365 | $1,516.97 | HNF365R | $2,030.49 | HNF365J | $2,052.86 | — | 250 | — | 350 |
| 600 | HNF366 | $2,703.51 | HNF366 | $4,028.40 | HNF366J | $4,029.60 | — | 400 | — | 500 |
| 800 | HNF367 | $5,330.51 | HNF367 | $7,026.11 | HNF367J | $7,033.02 | — | 500 | — | 500 |
| 1200 | HNF368 | $7,240.13 | HNF368 | $9,180.68 | — | — | — | 500 | — | 500 |

# WORLDWIDE MOTOR CONTROLS

## *Transfer Switches*

### *Double Throw Transfer Switches*




## Product Overview

- All 2 and 3 pole double throw switches are suitable for use as service equipment
- When protected with class H fuses, switches are rated for use on systems up to 10,000 A
- When protected with class R or class T fuses, switches are rated for use on systems up to 100,000 A
- Switches can be used to connect a single source of power to either of two loads
- A cover interlock is provided on all ampere ratings
- The operating handle may be padlocked in the OFF position

| Wire Ranges (Line, Load and Neutral). Per NEC Requirements. | |
|---|---|
| Switch Ampere Rating | Wire Range ( Cu / Al) New VBII Design Line, Load and Neutral |
| 30 - 200 A - 2, 3 & 4 Pole Switches | |
| 30 | 1 - #14-6 |
| 60 | 1 - #14-2 |
| 100 | 1 - #14-1/0 AWG |
| 100 | 1 - #14-1/0 AWG |
| 200 | 1 - #6-250 kcmil |
| 400 - 1200 A - 2 & 3 Pole Switches | |
| 400 | 1 - 1/0 AWG - 750 kcmil or<br>2 - 1/0 AWG - 250 kcmil |
| 600 | 2 - 1/0 AWG - 500 kcmil |
| 800 | 2 - 1/0 AWG - 750 kcmil or<br>3 - 1/0 AWG - 500 kcmil |
| 1200 | 3 - 1/0 AWG - 600 kcmil or<br>4 - 1/0 AWG - 500 kcmil |
| 400 - 800 A - 4 Pole Switches | |
| 400 | 1 - 1/0 AWG - 300 kcmil or<br>2 - 1/0 AWG - 750 kcmil |
| 600 | 2 - 250 - 500 kcmil |
| 800 | 3 - 250 - 500 kcmil |

| Fuse Capabilities of Fusible Switches | | | | |
|---|---|---|---|---|
| Ampere Rating | Fuse Type | | | |
| | H | R | T | J |
| 30 & 60 A, 240 V | Std. | YES (Kit) | NO | NO |
| 30 & 60 A, 600 V | Std. | YES (Kit) | NO | YES 3 |
| 100 & 200 A | Std. | YES (Kit) | YES (Kit) | YES 3 |

| Maximum Horsepower Ratings | | | | | |
|---|---|---|---|---|---|
| Ampere Rating | Single Phase AC 240 V | Three Phase AC | | | 250 V DC |
| | | 240 V | 480 V | 600 V | |
| Fused | | | | | |
| 30 | 3 | 7.5 | 15 | 20 | 5 |
| 60 | 10 | 15 | 30 | 50 | 10 |
| 100 | 15 | 30 | 60 | 75 | 20 |
| 200 | 15 | 60 | 125 | 150 | 40 |
| 400 | — | 125 | 125 | 125 | 50 |
| 600 | — | 125 | — | — | 50 |
| Non Fused | | | | | |
| 30 | 5 | 10 | 20 | 30 | 5 |
| 60 | 10 | 20 | 50 | 60 | 10 |
| 100 | 15 | 40 | 75 | 100 | 20 |
| 200 | 15 | 60 | 125 | 150 | 40 |
| 400 - 800 | — | 125 | 250 | 350 | 50 |

| Voltage | Number Of Poles | Amperes | NEMA 3R - Outdoor Less Neutral | | NEMA 3R - Outdoor With Neutral | |
|---|---|---|---|---|---|---|
| | | | Model Number | List Price | Model Number | List Price |
| General Duty Non-Fusible | | | | | | |
| 240 Volt AC | 2 | 100 | DTGNF223R | $1,261.21 | DTGNF223NR | $1,487.61 |
| | | 200 | DTGNF224R | $1,940.50 | DTGNF224NR | $2,310.03 |
| 240 Volt AC | 3 | 100 | DTGNF323R | $1,759.82 | DTGNF323NR | $1,982.71 |
| | | 200 | DTGNF324R | $2,199.77 | DTGNF324NR | $2,551.73 |

# WORLDWIDE MOTOR CONTROLS

## *Transfer Switches*

### *Double Throw Transfer Switches*

| Voltage | Number Of Poles | Amperes | NEMA 1 Indoor* | | NEMA 3R Outdoor* | |
|---|---|---|---|---|---|---|
| | | | Model Number | List Price | Model Number | List Price |
| **Heavy Duty Fusible (30-200 A) With Class H Fuse Spacings (1)** | | | | | | |
| 240 Volt AC or 250 Volt AC | 2 | 200 | DTF224 ▲ | $4,241.15 | DTF224R | $6,234.40 |
| 240 Volt AC or 250 Volt AC | 3 | 30 | DTF321 | $1,237.73 | DTF321R ▲ | $1,918.17 |
| | | 60 | DTF322 | $2,223.21 | DTF322R ▲ | $2,984.65 |
| | | 100 | DTF323 ▲ | $3,726.07 | DTF323R | $4,217.66 |
| | | 200 | DTF324 | $5,490.61 | DTF324R | $7,203.47 |
| | | 400 | DTF325 | $13,100.00 | FR325DTK (2) ▲ | $14,633.73 |
| | | 600 | DTF326 ▲ | $14,166.44 | FR326DTK (2) ▲ | $16,199.92 |
| 600 Volt AC or 250 Volt AC | 3 | 30 | DTF361 | $2,375.73 | — | — |
| | | 60 | DTF362 ▲ | $2,493.07 | — | — |
| | | 100 | DTF363 | $4,381.92 | DTF363R | $6,011.51 |
| | | 200 | DTF364 | $6,809.29 | DTF364R | $8,876.47 |
| | | 400 | DTF365 | $13,405.04 | FR355DTK (2) ▲ | $14,885.12 |
| **Heavy-Duty Non-Fusible (1)** | | | | | | |
| 240 Volt AC or 250 Volt AC | 2 | 30 | DTNF221 | $720.71 | — | — |
| | | 60 | DTNF222 | $1,113.36 | — | — |
| | | 100 | DTNF223 | $1,558.02 | — | — |
| | | 200 | DTNF224 | $2,166.90 | DTNF224R | $2,765.23 |
| | | 400 | DTNF225 | $5,874.25 | DTNF225R | $9,041.89 |
| 240 Volt AC or 250 Volt AC | 3 | 30 | DTNF321 | $853.61 | — | — |
| | | 60 | DTNF322 | $1,332.78 | — | — |
| | | 100 | DTNF323 | $2,017.78 | DTNF323R | $2,452.01 |
| | | 200 | DTNF324 | $3,110.17 | DTNF324R | $3,730.79 |
| | | 400 | DTNF325 | $8,488.12 | — | — |
| | | 600 | DTNF326 | $11,039.85 | — | — |
| | | 800 | DTNF327 ▲ | $18,141.24 | — | — |
| 600 Volt AC or 250 Volt AC | 3 | 30 | DTNF361 | $989.00 | DTNF361R | $1,695.28 |
| | | 60 | DTNF362 | $1,296.39 | DTNF362R | $2,141.10 |
| | | 100 | DTNF363 | $2,277.21 | DTNF363R | $3,742.53 |
| | | 200 | DTNF364 | $3,179.38 | DTNF364R | $5,152.70 |
| | | 400 | DTNF365 | $8,877.62 | DTNF365R | $13,781.65 |
| | | 600 | DTNF366 | $12,647.16 | DTNF366R | $17,404.48 |
| | | 800 | DTNF367 | $19,822.47 | DTNF367R | $20,120.43 |
| | | 1200 | DTNF368 ▲ | $25,977.07 ▲ | DTNF368R | $27,908.18 |
| 600 Volt AC or 250 Volt AC | 4 (3) | 30 | — | — | NFR451DTK ▲ | $4,566.11 |
| | | 60 | — | — | NFR452DTK ▲ | $4,862.92 |
| | | 100 | — | — | NFR453DTK ▲ | $7,191.72 |
| | | 200 | NF454DTK | $5,447.20 | NFR454DTK ▲ | $9,188.53 |
| | | 400 | NF455DTK | $14,035.04 | NFR455DTK ▲ | $19,014.10 |
| | | 600 | NF456DTK ▲ | $19,512.71 | NFR456DTK ▲ | $23,385.48 |
| | | 800 | NF457DTK ▲ | $46,776.79 | NFR457DTK ▲ | $60,821.22 |

Use HS type hubs for 30-200A switches - 400 A and larger switches do not have hub provisions

(1) All Heavy Duty Double Throw Switches with catalog number starting with "DT" are rated 200,000 AIC max when protected by Class R, J or T fuses. Fuse ampere rating must not exceed switch ampere rating.

(2) Model number F355SSDTK will accept class T fuses only

(3) 4 Pole switches are not approved for service entrance

*NEMA 12/3R and 4X Also Available

▲ Built to order - please allow 3-4 weeks for delivery

| Description | | | Model Number | List Price |
|---|---|---|---|---|
| **Accessories - 2 & 3 Pole Switches Only** (1) | | | | |
| Neutral Kits | 30 A HD, 60 A HD | | HN612 | $178.59 |
| | 60 A HD, 100 A HD | | HN623 | $344.97 |
| | 200 A | | HN64 | $344.97 |
| | 400 & 600 A | | HN656 | $809.00 |
| | 800 & 1200 A | | HN678 | $1,553.89 |
| Equipment Ground Kit | 30 - 200 A | 2 - #14-4 AW | HG61234 | $44.65 |
| | 400 & 600 A | 4 - #14-2/0 | HG656 | $228.20 |
| | 800 - 1200 A | 8 - #6-350 Kcmil | HG678 | $443.17 |
| Auxiliary Contacts (HD Only) (2 Required Per Switch) (4) | 30 - 200 A | With 1 NO & 1 NC contacts | HA161234 | $443.17 |
| | 30 - 200 A | With 2 NO & 2 NC contacts | HA261234 | $494.43 |
| | 400 - 1200 A | With 1 NO & 1 NC contacts | HA165678 | $1,089.73 |
| | 400 - 1200 A | With 2 NO & 2 NC contacts | HA265678 | $1,140.99 |
| Class R Fuse Clip Kits (2 Required Per Switch) | 30 A, 240 V Kit | | HR21 | $153.83 |
| | 30 A, 600 V Kit/60 A, 240 V Kit | | HR612 | $153.83 |
| | 60 A, 600 V Kit | | HR62 | $153.83 |
| | 100 A Kit | | HR63 | $99.22 |
| | 200 A Kit | | HR64 | $99.22 |
| Class T Fuse Adapter Kits (2 Required Per Pole) | 100 A, 240 V Kit | | HT23 | $142.21 |
| | 100 A, 600 V Kit | | HT63 | $223.24 |
| | 200 A, 240 V Kit | | HT24 | $188.51 |
| | 200 A, 600 V Kit | | HT64 | $266.23 |
| Type 3R Hubs (300 - 200 A) | For 3/4" Conduit | | HS075 | $68.28 |
| | For 1" Conduit | | ECHS100 | $68.28 |
| | For 1 ¼" Conduit | | ECHS125 | $68.28 |
| | For 1 ½" Conduit | | ECHS150 | $68.28 |
| | For 2" Conduit | | ECHS200 | $120.94 |
| | For 2 ½" Conduit | | ECHS250 | $191.22 |
| **Accessories - 4 Pole Switches Only** (2) | | | | |
| Auxiliary Switch (2 Required Per Switch) | 30 - 800 A | 1 - NO, 1 - NC (4) | DS200EK1 | $390.66 |
| | | 2 - NO, 2 - NC (4) | DS200EK2 | $780.17 |
| Ground Lug Kit (3) | 30 - 60 - 100 A | | DS100GK | $12.58 |
| | 200 A | | DS200GK | $212.34 |
| | 400 - 600 - 800 A | | DS468GK | $306.20 |
| Hubs | 30 - 60 - 100 A | Use Type HR Hubs | — | — |
| | 200 - 400 A | Use Type SSH 4, 4X Hubs | — | — |
| | 600 - 800 A | Use Type SSH 4, 4X Hubs | — | — |
| Neutrals (For Fusible Stainless and 400 Type 12 & 4X Only) | 30 - 60 - 100 A | | DT100NK | $205.32 |
| | 200 A | | DT200NK | $409.43 |
| | 400 A Fusible | | DS800NK | $512.67 |
| **Replacement Parts - 2 & 3 Pole Switches Only** (1) | | | | |
| Type 1, 3R & 12 Replacement Handle | 30 - 200 A | | HHD61234 | $181.90 |

(1) Not for fusible stainless or 400 A NEMA 12 or 4X switches
(2) Also for fusible stainless & 400 A NEMA 12 or 4X switches
(3) The following ground lugs are provided as standard in:
200 A and larger switches 200 - one #14-4 Cu/Al
400-800 A - three #6-250MCM Cu/Al
(4) One auxiliary required for normal and one required for emergency switch line base

# WORLDWIDE MOTOR CONTROLS

## *Pilot Devices*

### *Class 52 ▪ Watertight / Oiltight ▪ 30 MM Heavy Duty*



**Pilot Light**



**Pushbutton**



**Selector Operator**



**Selector Push Operator**

**Pushbutton Operators**
- Neoprene actuator seals ring to prevent oil and dust from penetrating the contact blocks
- Neoprene gasket to seal operator mounting hole and a chrome plated lock nut

**Mushroom Head Pushbutton Operators**
- The Mushroom head base construction is Identical to the pushbutton base
- The actuator is molded of high impact material for either a 1 ⅝ Inch or 2 ½ inch diameter molded head

**Contact Blocks**
- Contact blocks have double break bifurcated silver contacts, with gold flashing as standard, which improve contact fidelity
- Heavy duty rated, NEMA A600
- Suitable for applications down to 5V/1MA solid state outputs
- Molded bodies and pushers resist arcing and tracking
- Stainless steel springs resist Corrosion and Provide strong contact pressure
- Captive mounting screws speed panel assembly

**LED Type Pilot Lights:**
- LEDs (Light Emitting Diodes) can be used in pilot lights instead of incandescent bulbs because of their long life (up to 10 years)
- Resistance to vibration and ambient sensitivity

**Push Pull Operators:**
- Push pull operators combine two or three functions in one unit
- The maintained operator has two position: PULL to start and PUSH to stop
- The momentary operator with three positions provides spring return from both pull and push positions
- Also available with a pilot light

**Lever Color Inserts Are Available In 8 Colors.**

**Transformer Type Pilot Lights:**
- Available with a 120, 240, 480 or 600 volt primary (50/60 Hertz) and a separate secondary winding which supplies reduced voltage to a miniature bayonet base 6 volt lamp
- Suitable for applications where vibration is present and long bulb life is desirable

**Full Voltage Type Pilot Lights:**
- Available for 6, 12, 24, 120 and 240 volt AC and DC applications
- The 240 volt pilot light is supplied with a 120 volt lamp and a voltage dropping resistor

**Selector Operators:**
- Positive action indexing
- Available with either a short or long lever
- The molded black lever is designed to accept a color insert
- A white insert is provided as standard
- Each operator is equipped with a cam to actuate plungers of contact blocks assembled behind the operator
- Two, three and four position operators are available with seven different cams

**Electrical Ratings**
- NEMA AC Ratings 50/60 Hz
- NEMA A600 10 Continuous Amps

| Volts | Make | Break |
|---|---|---|
| 120 | 60 | 6 |
| 240 | 30 | 3 |
| 480 | 15 | 1.5 |
| 600 | 12 | 1.2 |
| VA | 7200 | 720 |

***WorldWide Electric Carries a Complete Line of Pilot Devices. Please Call For More Information.***

# WORLDWIDE MOTOR CONTROLS

## *Pilot Devices*

## *Class 52 ▪ Watertight / Oiltight ▪ 30 MM Heavy Duty Pushbutton Complete Units*



**Pushbutton With Flush Cap**



**Pushbutton With Extended Cap**



**Pushbutton With Mushroom Head**

## Product Overview

- Octagonal mounting nuts
- Meets type 1, 3, 4, 12, 13 and automotive standards (oil and dust tight)
- Heavy duty rated NEMA A600 contacts
- Positive indexing selectors
- Building block construction of contact blocks make possible many circuitry combinations
- Bifurcated movable contacts. Silver contacts carry heavy duty ratings.
- Chrome plating covers exposed metal parts
- Boots not required for Type 4
- Durable one piece castings
- Heavy duty plastic buttons resist oils and corrosion
- UL listed file #E22655
- CSA certified file #LR6535
- Touchsafe terminals

| Color Of Actuator | Contact Blocks | Flush Cap | | Extended Cap | | Mushroom Head | |
|---|---|---|---|---|---|---|---|
| | | Model Number | List Price | Model Number | List Price | Model Number | List Price |
| Pushbutton Unit With Assembled Contact Blocks | | | | | | | |
| Black | 1 NO | 52PA8A1K | $62.07 | 52PA8B1K | $62.07 | 52PB9D1K | $106.15 |
| Red | 1 NO | 52PA8A2K | | 52PA8B2K | | 52PB9D2K | |
| Green | 1 NO | 52PA8A3K | | 52PA8B3K | | 52PB9D3K | |
| Yellow | 1 NO | 52PA8A4K | | 52PA8B4K | | 52PB9D4K | |
| Black | 1 NC | 52PA8A1J | $62.07 | 52PA8B1J | $62.07 | 52PB9D1J | $106.15 |
| Red | 1 NC | 52PA8A2J | | 52PA8B2J | | 52PB9D2J | |
| Green | 1 NC | 52PA8A3J | | 52PA8B3J | | 52PB9D3J | |
| Yellow | 1 NC | 52PA8A4J | | 52PA8B4J | | 52PB9D4J | |
| Black | 1 NO - 1 NC | 52PA8A1A | $84.34 | 52PA8B1A | $84.34 | 52PB9D1A | $128.41 |
| Red | 1 NO - 1 NC | 52PA8A2A | | 52PA8B2A | | 52PB9D2A | |
| Green | 1 NO - 1 NC | 52PA8A3A | | 52PA8B3A | | 52PB9D3A | |
| Yellow | 1 NO - 1 NC | 52PA8A4A | | 52PA8B4A | | 52PB9D4A | |



***WorldWide Electric Carries a Complete Line of Pilot Devices. Please Call For More Information.***



**Assembled Selector Operator**

## Product Overview

- Octagonal mounting nuts
- Meets type 1, 3, 4, 12, 13 and automotive standards (oil and dust tight)
- Heavy duty rated NEMA A600 contacts
- Positive indexing selectors
- Building block construction of contact blocks make possible many circuitry combinations
- Bifurcated movable contacts. Silver contacts carry heavy duty ratings.
- Chrome plating covers exposed metal parts
- Boots not required for Type 4
- Durable one piece castings
- Heavy duty plastic buttons resist oils and corrosion
- UL listed file #E22655
- CSA certified file #LR6535
- Touchsafe terminals

| Version | Lever Type | Contact Bocks | Cam (1) | Model Number | List Price |
|---|---|---|---|---|---|
| **Selector Switches With 2 Switching Positions** | | | | | |
| Maintained Operation | Short Lever, Non-Illuminated | 1 NO | A | 52SA2AABK1 | $76.83 |
| | Short Lever, Non-Illuminated | 1 NC | A | 52SA2AABJ1 | $76.83 |
| | Short Lever, Non-Illuminated | 1 NO + 1 NC | A | 52SA2AABA1 | $99.09 |
| | Long Lever, Non-Illuminated | 1 NO | A | 52SB2AABK1 | $76.83 |
| | Long Lever, Non-Illuminated | 1 NC | A | 52SB2AABJ1 | $76.83 |
| | Long Lever, Non-Illuminated | 1 NO + 1 NC | A | 52SB2AABA1 | $99.09 |
| Spring Return From Right Operation | Short Lever, Non-Illuminated | 1 NO | A | 52SA2ACBK1 | $106.54 |
| | Short Lever, Non-Illuminated | 1 NC | A | 52SA2ACBJ1 | $106.54 |
| | Short Lever, Non-Illuminated | 1 NO + 1 NC | A | 52SA2ACBA1 | $128.74 |
| | Long Lever, Non-Illuminated | 1 NO | A | 52SB2ACBK1 | $106.54 |
| | Long Lever, Non-Illuminated | 1 NC | A | 52SB2ACBJ1 | $106.54 |
| | Long Lever, Non-Illuminated | 1 NO + 1 NC | A | 52SB2ACBA1 | $128.74 |
| **Selector Switches With 3 Switching Positions** | | | | | |
| Maintained Operation | Short Lever, Non-Illuminated | 1 NO + 1 NC | C | 52SA2CABA1 | $99.09 |
| | Short Lever, Non-Illuminated | 2 NC + 1 NO | G | 52SA2GABJ2K1 | $121.29 |
| | Short Lever, Non-Illuminated | 2 NO + 2 NC | C | 52SA2CABA2 | $143.50 |
| | Long Lever, Non-Illuminated | 1 NO + 1 NC | C | 52SB2CABA1 | $99.09 |
| | Long Lever, Non-Illuminated | 2 NC + 1 NO | G | 52SB2GABJ2K1 | $121.29 |
| | Long Lever, Non-Illuminated | 2 NO + 2 NC | C | 52SB2CABA2 | $143.50 |
| Spring Return From Right Operation | Short Lever, Non-Illuminated | 1 NO + 1 NC | C | 52SA2CCBA1 | $128.74 |
| | Short Lever, Non-Illuminated | 2 NC + 1 NO | G | 52SA2GCBJ2K | $151.00 |
| | Short Lever, Non-Illuminated | 2 NO + 2 NC | C | 52SA2CCBA2 | $173.20 |
| | Long Lever, Non-Illuminated | 1 NO + 1 NC | C | 52SB2CCBA1 | $128.74 |
| | Long Lever, Non-Illuminated | 2 NC + 1 NO | G | 52SB2GCBJ2K1 | $151.00 |
| | Long Lever, Non-Illuminated | 2 NO + 2 NC | C | 52SB2CCBA2 | $173.20 |
| Spring Return From Right & Left Operation | Short Lever, Non-Illuminated | 1 NO + 1 NC | C | 52SA2CDBA1 | $128.74 |
| | Short Lever, Non-Illuminated | 2 NC + 1 NO | G | 52SA2GDBJ2K1 | $151.00 |
| | Short Lever, Non-Illuminated | 2 NO + 2 NC | C | 52SA2CDBA2 | $173.20 |
| | Long Lever, Non-Illuminated | 1 NO + 1 NC | C | 52SB2CDBA1 | $128.74 |
| | Long Lever, Non-Illuminated | 2 NC + 1 NO | G | 52SB2GDBJ2K1 | $151.00 |
| | Long Lever, Non-Illuminated | 2 NO + 2 NC | C | 52SB2CDBA2 | $173.20 |

(1) For Contact Operation - call sales office for more information.

WorldWide Electric Carries a Complete Line of Pilot Devices. Please Call For More Information.

# WORLDWIDE MOTOR CONTROLS

## *Pilot Devices*

### *Class 52 ▪ Watertight / Oiltight ▪ 30 MM Heavy Duty Special Devices*



**Potentiometer Operator**



**2 Button Maintained Operator**



**Wobble Stick 2.5″ Operator**



**Maintained Toggle Operator**

| Version | Ohms / Color | Model Number | List Price |
|---|---|---|---|
| Potentiometer Operator 2 Watts (Type 12/3 Only) | 50 | 52MA3B01 | $295.08 |
| | 250 | 52MA3B04 | $295.08 |
| | 500 | 52MA3B06 | $295.08 |
| | 1 K | 52MA3B08 | $295.08 |
| | 2.5 K | 52MA3B10 | $295.08 |
| | 5 K | 52MA3B12 | $295.08 |
| | 10 K | 52MA3B14 | $295.08 |
| | 15 K | 52MA3B15 | $295.08 |
| | 25 K | 52MA3B16 | $295.08 |
| | 100 K | 52MA3B20 | $295.08 |
| | 500 K | 52MA3B24 | $295.08 |
| | 2 M | 52MA3B28 | $295.08 |
| | 5 M | 52MA3B31 | $295.08 |
| 2 Button Maintained Operator Button Remains Depressed When Pushed | Black/Red | 52MA2A1A2 | $124.53 |
| | Less Caps | 52MA2 | $118.83 |
| Wobble Stick 2.5″ Operator For Use With 52BAJ (NC) Contact Block | — | 52ABW2 (1) | $84.34 |
| | — | 52ABW3 (1) | $84.34 |
| | — | 52ABW6 (1) | $84.34 |
| Maintained Toggle Operator | — | 52ABT | $84.34 |



***WorldWide Electric Carries a Complete Line of Pilot Devices. Please Call For More Information.***

(1) For use with 52BAJ (NC) Contact Block

| Version | Suitable For | Color | Model Number | List Price |
|---|---|---|---|---|
| Flush Actuator Lens Cap | Flush Type Non-Illuminated Pushbuttons | Black | 52RA1A1 | $9.94 |
| | | Red | 52RA1A2 | $9.94 |
| | | Green | 52RA1A3 | $9.94 |
| | | Yellow | 52RA1A4 | $9.94 |
| | | Blue | 52RA1A5 | $9.94 |
| | | Gray | 52RA1A6 | $9.94 |
| | | Orange | 52RA1A8 | $9.94 |
| | | Kit - All Colors | 52RA1AN | $20.13 |
| Extended Actuator Lens Cap | Extended Type Non-Illuminated Pushbuttons | Black | 52RA1B1 | $9.94 |
| | | Red | 52RA1B2 | $9.94 |
| | | Green | 52RA1B3 | $9.94 |
| | | Yellow | 52RA1B4 | $9.94 |
| | | Blue | 52RA1B5 | $9.94 |
| | | Gray | 52RA1B6 | $9.94 |
| | | Orange | 52RA1B8 | $9.94 |
| | | Kit - All Colors | 52RA1BN | $20.13 |
| Mushroom Head Cap - Plastic | Small 1 ⅝" (41.3 mm) Type Non-Illuminated Mushroom Pushbuttons | Black | 52RB3D1 | $14.76 |
| | | Red | 52RB3D2 | $14.76 |
| | | Green | 52RB3D3 | $14.76 |
| | | Yellow | 52RB3D4 | $14.76 |
| | | Blue | 52RB3D5 | $14.76 |
| | | Gray | 52RB3D6 | $14.76 |
| | | Orange | 52RB3D8 | $14.76 |
| Mushroom Head Cap - Metal | Small 1 ⅝" (41.3 mm) Type Non-Illuminated Mushroom Pushbuttons | Chrome | 52RB3FC | $32.04 |
| | | Red | 52RB3F2 | $32.04 |
| | | Green | 52RB3F3 | $32.04 |
| Mushroom Head Cap - Plastic | Large 2 ½" (63.5 mm) Type Non-Illuminated Mushroom Pushbuttons | Black | 52RB3E1 | $29.51 |
| | | Red | 52RB3E2 | $29.51 |
| | | Green | 52RB3E3 | $29.51 |
| | | Yellow | 52RB3E4 | $29.51 |
| | | Blue | 52RB3E5 | $29.51 |
| | | Gray | 52RB3E6 | $29.51 |
| | | Orange | 52RB3E8 | $29.51 |
| Illuminated Mushroom Head Cap | | | | |
| Illuminated Metal | Illuminated Mushroom Head Pushbuttons | Red | 52RB3H2 | $32.36 |
| | | Green | 52RB3H3 | $32.36 |
| | | Amber | 52RB3H9 | $32.36 |
| Illuminated Plastic | Illuminated Mushroom Head Pushbuttons | Red | 52RB3JR | $32.36 |

***WorldWide Electric Carries a Complete Line of Pilot Devices. Please Call For More Information.***

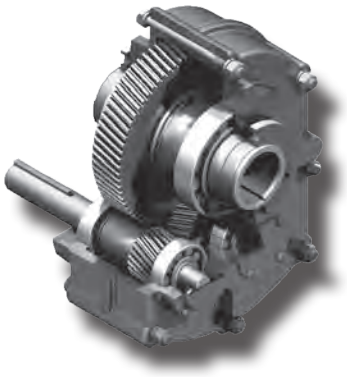
# WORLDWIDE GEAR REDUCERS

## *Shaft Mount Reducers*

### *"Original" Shaft Mount Reducer*

### *Product Overview*





## Product Overview

- 15:1 and 25:1 ratios
- Box sizes 2 - 9
- Tapered bushing type (bushing not included)
- Premium quality ball and tapered bearings - double lip seals
- Shafts and gears manufactured from high grade steel, case hardened and precision ground to AGMA standards
- Industrial grade all-cast iron housings protect gearing for life
- Extended gear centers and tooth contact
- Metal reinforced double lip, spring loaded oil seals
- Dimensional drop-in for all major makes
- Torque arm included
- 2 year warranty

| Box Size | Ratio | Output Bore (Max.) | Approx. Wt. (lbs.) | Model Number | List Price |
|---|---|---|---|---|---|
| 2 | 15:1<br>25:1 | 1 15/16" | 58 | SMR2-15:1<br>SMR2-25:1 | $911.03 |
| 3 | 15:1<br>25:1 | 2 3/16" | 98 | SMR3-15:1<br>SMR3-25:1 | $1,618.21 |
| 4 | 15:1<br>25:1 | 2 7/16" | 139 | SMR4-15:1<br>SMR4-25:1 | $2,188.72 |
| 5 | 15:1<br>25:1 | 2 15/16" | 207 | SMR5-15:1<br>SMR5-25:1 | $3,287.05 |
| 6 | 15:1<br>25:1 | 3 7/16" | 285 | SMR6-15:1<br>SMR6-25:1 | $4,295.00 |
| 7 | 15:1<br>25:1 | 3 15/16" | 462 | SMR7-15:1<br>SMR7-25:1 | $6,854.00 |
| 8 | 15:1<br>25:1 | 4 7/16" | 633 | SMR8-15:1<br>SMR8-25:1 | $11,654.00 |
| 9 | 15:1<br>25:1 | 4 15/16" | 760 | SMR9-15:1<br>SMR9-25:1 | $15,286.00 |

## Output Shaft Overhung Load Ratings

| Box Size | Shaft Size | Overhung Load (lbs.) At Various RPMs | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10 | 20 | 30 | 50 | 80 | 100 | 120 | 140 | 160 | 180 | 200 |
| 2 | 1 7/16 | 2000 | 1510 | 1270 | 1010 | 840 | 820 | 720 | 720 | 710 | 710 | 700 |
| | 1 15/16 | 1750 | 1320 | 1110 | 890 | 730 | 710 | 630 | 630 | 620 | 620 | 610 |
| 3 | 1 15/16 | 5400 | 4250 | 3680 | 3050 | 2620 | 2440 | 2310 | 2210 | 2110 | 2040 | 1980 |
| | 2 3/16 | 5240 | 4120 | 3570 | 2960 | 2540 | 2370 | 2240 | 2140 | 2050 | 1980 | 1920 |
| 4 | 2 3/16 | 6520 | 5180 | 4510 | 3800 | 3230 | 3000 | 2830 | 2710 | 2600 | 2510 | 2430 |
| | 2 7/16 | 6360 | 5060 | 4410 | 3710 | 3160 | 2930 | 2770 | 2640 | 2530 | 2450 | 2370 |
| 5 | 2 7/16 | 7460 | 5860 | 5080 | 4280 | 3690 | 3450 | 3270 | 3110 | 2980 | 2880 | 2790 |
| | 2 15/16 | 7060 | 5540 | 4800 | 4040 | 3490 | 3260 | 3090 | 2940 | 2820 | 2720 | 2640 |
| 6 | 2 15/16 | 9100 | 7100 | 6100 | 5000 | 4100 | 4050 | 3700 | 3550 | 3400 | 3300 | 3200 |
| | 3 7/16 | 8200 | 6400 | 5500 | 4500 | 3700 | 3650 | 3400 | 3300 | 3250 | 3200 | 3150 |
| 7 | 3 7/16 | 11400 | 9500 | 7300 | 5950 | 4750 | 5050 | 4500 | 4300 | 4250 | 4200 | 4150 |

# WORLDWIDE GEAR REDUCERS

## *Shaft Mount Reducers*

### *"Original" Shaft Mount Reducer Mechanical Ratings*

| Reducer Model Number | Service Class I | | | Service Class II | | | Service Class III | | |
|---|---|---|---|---|---|---|---|---|---|
| | Power (HP) | Output (RPM) | Output * Torque | Power (HP) | Output (RPM) | Output * Torque | Power (HP) | Output (RPM) | Output * Torque |
| SMR2-15/1 | 2 | 18-32 | 6700-3769 | 1.5 | 19-34 | 4761-2660 | 1.5 | 27-51 | 3350-1774 |
| | 3 | 27-51 | 6700-3547 | 2 | 25-47 | 4824-2566 | 2 | 37-71 | 3260-1699 |
| | 5 | 71-85 | 4247-3547 | 3 | 39-75 | 4639-2412 | 3 | 58-113 | 3119-1601 |
| | 7.5 | 75-140 | 6030-3230 | 5 | 70-136 | 4307-2217 | 5 | 104-140 | 2899-2154 |
| | 10 | 104-140 | 5798-4307 | 7.5 | 111-140 | 4074-3230 | — | — | — |
| SMR2-25/1 | 0.5 | 4-6 | 7538-5025 | 0.33 | 4-6 | 5025-3350 | 0.25 | 4-6 | 3769-2513 |
| | 0.75 | 6-10 | 7538-4523 | 0.5 | 6-9 | 5025-3350 | 0.33 | 5-9 | 4020-2233 |
| | 1 | 8-15 | 7538-4020 | 0.75 | 9-16 | 5025-2827 | 0.5 | 8-15 | 3769-2010 |
| | 1.5 | 13-23 | 6958-3933 | 1 | 12-22 | 5025-2741 | 0.75 | 13-23 | 3479-1966 |
| | 2 | 18-32 | 6700-3769 | 1.5 | 19-34 | 4761-2660 | 1 | 18-32 | 3350-1884 |
| | 3 | 27-51 | 6700-3547 | 2 | 25-47 | 4824-2566 | 1.5 | 27-51 | 3350-1774 |
| | 5 | 47-70 | 6415-4307 | 3 | 39-75 | 4639-2412 | 2 | 37-71 | 3260-1699 |
| | 7.5 | 75-85 | 6030-5321 | 5 | 70-85 | 4307-3547 | 3 | 58-85 | 3119-2128 |
| SMR3-15/1 | 5 | 27-46 | 11167-6555 | 2 | 15-24 | 8040-5025 | 2 | 22-36 | 5482-3350 |
| | 7.5 | 41-74 | 11031-6112 | 3 | 23-38 | 7865-4761 | 3 | 33-57 | 5482-3174 |
| | 10 | 57-103 | 10579-5855 | 5 | 38-69 | 7934-4370 | 5 | 57-103 | 5290-2927 |
| | 15 | 94-140 | 9623-6461 | 7.5 | 60-110 | 7538-4111 | 7.5 | 94-140 | 4811-3230 |
| | — | — | — | 10 | 85-140 | 7094-4307 | — | — | — |
| SMR3-25/1 | 0.75 | 4-5 | 11307-9045 | 0.5 | 4-5 | 7538-6030 | 0.5 | 6-7 | 5025-4307 |
| | 1 | 6-7 | 10050-8615 | 0.75 | 6-8 | 7538-5653 | 0.75 | 8-12 | 5653-3769 |
| | 1.5 | 8-12 | 11307-7538 | 1 | 8-11 | 7538-5482 | 1 | 11-17 | 5482-3547 |
| | 2 | 11-17 | 10964-7094 | 1.5 | 12-18 | 7538-5025 | 1.5 | 16-26 | 5653-3479 |
| | 3 | 16-26 | 11307-6958 | 2 | 15-24 | 8040-5025 | 2 | 22-36 | 5482-3350 |
| | 5 | 27-46 | 11167-6555 | 3 | 23-38 | 7865-4761 | 3 | 33-57 | 5482-3174 |
| | 7.5 | 41-74 | 11031-6112 | 5 | 38-69 | 7934-4370 | 5 | 57-85 | 5290-3547 |
| | 10 | 57-85 | 10579-7094 | 7.5 | 60-85 | 7538-5321 | — | — | — |
| SMR4-15/1 | 5 | 18-26 | 16750-11596 | 3 | 15-22 | 12060-8223 | 3 | 21-32 | 8615-5653 |
| | 7.5 | 27-40 | 16750-11307 | 5 | 25-37 | 12060-8149 | 5 | 37-56 | 8149-5384 |
| | 10 | 37-56 | 16298-10768 | 7.5 | 39-59 | 11596-7665 | 7.5 | 57-93 | 7934-4863 |
| | 15 | 57-93 | 15869-9726 | 10 | 53-84 | 11378-7179 | 10 | 79-141 | 7633-4277 |
| | 20 | 79-140 | 15266-8615 | 15 | 83-140 | 10898-6461 | — | — | — |
| | 25 | 102-140 | 14780-10768 | — | — | — | — | — | — |
| SMR4-25/1 | 1 | 4-5 | 15075-12060 | 0.75 | 4-5 | 11307-9045 | 0.5 | 4-5 | 7538-6030 |
| | 1.5 | 5-7 | 18091-12922 | 1 | 5-7 | 12060-8515 | 0.75 | 5-7 | 9045-6461 |
| | 2 | 7-10 | 17229-12060 | 1.5 | 7-11 | 12922-8223 | 1 | 7-10 | 8615-6030 |
| | 3 | 11-15 | 16446-12060 | 2 | 10-14 | 12060-8615 | 1.5 | 11-15 | 8223-6030 |
| | 5 | 18-26 | 16750-11596 | 3 | 15-22 | 12060-8223 | 2 | 14-21 | 8615-5743 |
| | 7.5 | 27-40 | 16750-11307 | 5 | 25-37 | 12060-8149 | 3 | 21-32 | 8615-5653 |
| | 10 | 37-56 | 16298-10768 | 7.5 | 39-59 | 11596-7665 | 5 | 37-56 | 8149-5384 |
| | 15 | 57-85 | 15869-10641 | 10 | 53-84 | 11378-7179 | 7.5 | 57-85 | 7934-5321 |
| | 20 | 79-85 | 15266-14189 | — | — | — | — | — | — |



* All output torque ratings are listed in inch pounds.

Continued On Next Page

# WORLDWIDE GEAR REDUCERS

## *Shaft Mount Reducers*

### *"Original" Shaft Mount Reducer Mechanical Ratings*

| Reducer Model Number | Service Class I | | | Service Class II | | | Service Class III | | |
|---|---|---|---|---|---|---|---|---|---|
| | Power (HP) | Output (RPM) | Output * Torque | Power (HP) | Output (RPM) | Output * Torque | Power (HP) | Output (RPM) | Output * Torque |
| SMR5-15/1 | 10 | 21-36 | 28715-16750 | 7.5 | 22-38 | 20557-11902 | 5 | 21-36 | 14358-8375 |
| | 15 | 33-56 | 27410-16152 | 10 | 30-52 | 20101-11596 | 7.5 | 33-56 | 13705-8076 |
| | 20 | 46-78 | 26218-15462 | 15 | 48-82 | 118844-11031 | 10 | 46-78 | 13109-7731 |
| | 25 | 60-101 | 25126-14926 | 20 | 69-117 | 17479-10308 | 15 | 76-125 | 11902-7236 |
| | 30 | 76-125 | 23803-14472 | 25 | 95-125 | 15869-12060 | 20 | 115-125 | 10487-9648 |
| | 40 | 115-125 | 20975-19297 | — | — | — | — | — | — |
| SMR5-25/1 | 1.5 | 4 | 22613 | 1.5 | 5-6 | 18091-15075 | 0.75 | 4 | 11307 |
| | 2 | 4-6 | 30151-20101 | 2 | 6-9 | 20101-13400 | 1 | 4-6 | 15075-10050 |
| | 3 | 6-10 | 30151-18091 | 3 | 9-14 | 20101-12922 | 1.5 | 6-10 | 15075-9045 |
| | 5 | 10-17 | 30151-17736 | 5 | 15-24 | 20101-12563 | 2 | 8-13 | 15075-9277 |
| | 7.5 | 16-26 | 28266-17395 | 7.5 | 22-38 | 20557-11902 | 3 | 13-20 | 13916-9045 |
| | 10 | 21-36 | 28715-16750 | 10 | 30-52 | 20101-11596 | 5 | 21-36 | 14358-8375 |
| | 15 | 33-56 | 27410-16152 | 15 | 48-82 | 18844-11031 | 7.5 | 33-56 | 13705-8076 |
| | 20 | 46-78 | 26218-15462 | 20 | 69-80 | 17479-15075 | 10 | 46-78 | 13109-7731 |
| | 25 | 60-80 | 25126-18844 | — | — | — | — | — | — |
| SMR6-15/1 | 15 | 20-32 | 45226-28266 | 10 | 19-29 | 31738-20794 | 7.5 | 20-32 | 22613-14133 |
| | 20 | 27-45 | 44668-26801 | 15 | 28-47 | 32304-19245 | 10 | 27-45 | 22334-13400 |
| | 25 | 34-59 | 44339-25552 | 20 | 39-68 | 30924-17736 | 15 | 42-75 | 21536-12060 |
| | 30 | 42-75 | 43073-24121 | 25 | 50-94 | 30151-16038 | 20 | 58-114 | 20794-10579 |
| | 40 | 58-114 | 41587-21158 | 30 | 61-125 | 29657-14472 | 25 | 75-125 | 20101-12060 |
| | 50 | 75-125 | 40201-24121 | 40 | 89-120 | 27102-20101 | 30 | 99-125 | 18276-14472 |
| SMR6-25/1 | 3 | 4-5 | 45226-36181 | 2 | 4-5 | 30151-24121 | 1.5 | 4-5 | 22613-18091 |
| | 5 | 7-9 | 43073-33501 | 3 | 6-8 | 30151-22613 | 2 | 5-7 | 24121-17229 |
| | 7.5 | 10-15 | 45226-30151 | 5 | 9-14 | 33501-21536 | 3 | 8-12 | 22613-15075 |
| | 10 | 13-20 | 46386-30151 | 7.5 | 14-21 | 32304-21536 | 5 | 13-20 | 23193-15075 |
| | 15 | 20-32 | 45226-28266 | 10 | 19-29 | 31738-20794 | 7.5 | 20-32 | 22613-14133 |
| | 20 | 27-45 | 44668-26801 | 15 | 28-47 | 32304-19245 | 10 | 27-45 | 22334-13400 |
| | 25 | 34-59 | 44339-25552 | 20 | 39-68 | 30924-17736 | 15 | 42-75 | 21536-12060 |
| | 30 | 42-75 | 43073-24121 | 25 | 50-80 | 30151-18844 | 20 | 58-70 | 20794-17229 |
| | 40 | 58-81 | 41587-29779 | 30 | 61-76 | 29657-23803 | — | — | — |
| SMR7-15/1 | 20 | 19-26 | 63480-46392 | 20 | 27-38 | 44664-31740 | 10 | 19-26 | 31740-23196 |
| | 25 | 24-33 | 62820-45684 | 25 | 34-49 | 44340-30768 | 15 | 29-41 | 31188-22056 |
| | 30 | 29-41 | 62388-44124 | 30 | 42-60 | 43068-30156 | 20 | 39-57 | 30924-21156 |
| | 40 | 39-57 | 61848-42312 | 40 | 57-88 | 42312-27408 | 25 | 50-74 | 30156-20376 |
| | 50 | 50-74 | 60300-40740 | — | — | — | 30 | 61-98 | 29652-18456 |
| | — | — | — | — | — | — | 40 | 85-89 | 28380-27108 |
| SMR7-25/1 | 5 | 5-6 | 60300-50256 | 3 | 4-5 | 45228-36180 | 3 | 6-7 | 30156-25848 |
| | 7.5 | 7-9 | 64608-50256 | 5 | 7-8 | 43068-37692 | 5 | 9-12 | 33504-25128 |
| | 10 | 9-12 | 67008-50256 | 7.5 | 10-13 | 45228-34788 | 7.5 | 14-19 | 32304-23808 |
| | 15 | 14-19 | 64608-47604 | 10 | 13-18 | 46392-33504 | 10 | 19-26 | 31740-23196 |
| | 20 | 19-26 | 63480-46392 | 15 | 20-27 | 45228-33504 | 15 | 29-41 | 31188-22056 |
| | 25 | 24-33 | 62820-45684 | 20 | 27-38 | 44664-31740 | 20 | 39-57 | 30924-21156 |
| | 30 | 29-41 | 62388-44124 | 25 | 34-49 | 44340-30768 | 25 | 50-74 | 30156-20376 |
| | 40 | 39-57 | 61848-42312 | 30 | 42-60 | 43068-30156 | 30 | 61-70 | 29652-25848 |
| | 50 | 50-74 | 60300-40740 | 40 | 57-75 | 42312-32160 | — | — | — |

* All output torque ratings are listed in inch pounds.

Continued On Next Page

# WORLDWIDE GEAR REDUCERS

## *Shaft Mount Reducers*

### *"Original" Shaft Mount Reducer Mechanical Ratings*

| Reducer Model Number | Service Class I | | | Service Class II | | | Service Class III | | |
|---|---|---|---|---|---|---|---|---|---|
| | Power (HP) | Output (RPM) | Output * Torque | Power (HP) | Output (RPM) | Output * Torque | Power (HP) | Output (RPM) | Output * Torque |
| SMR8-15/1 | 30 | 20-28 | 90456-64608 | 25 | 23-33 | 65544-45684 | 15 | 20-28 | 45228-32304 |
| | 40 | 26-38 | 92772-63480 | 30 | 28-41 | 64608-44124 | 20 | 26-38 | 46392-31740 |
| | 50 | 33-49 | 91368-61536 | 40 | 37-56 | 65196-43068 | 25 | 33-49 | 45684-30768 |
| | 60 | 40-60 | 90456-60300 | 50 | 47-72 | 64152-41880 | 30 | 40-60 | 45228-30156 |
| | 75 | 51-70 | 88680-64608 | 60 | 57-89 | 63480-40656 | 40 | 54-84 | 44664-28716 |
| | — | — | — | 75 | 74-75 | 61116-60300 | 50 | 70-110 | 43068-27408 |
| | — | — | — | — | — | — | 60 | 86-115 | 42072-31464 |
| SMR8-25/1 | 7.5 | 4-6 | 113064-75384 | 5 | 4-6 | 75384-50256 | 3 | 4-5 | 45228-36180 |
| | 10 | 6-8 | 100500-75384 | 7.5 | 6-9 | 75384-50256 | 5 | 6-8 | 50256-37692 |
| | 15 | 9-13 | 100500-69576 | 10 | 8-12 | 75384-50256 | 7.5 | 9-13 | 50256-34788 |
| | 20 | 13-18 | 92772-67008 | 15 | 13-19 | 69576-47604 | 10 | 13-18 | 46392-33504 |
| | 25 | 16-23 | 94224-65544 | 20 | 18-26 | 67008-46392 | 15 | 20-28 | 45228-32304 |
| | 30 | 20-28 | 90456-64608 | 25 | 23-33 | 65544-45684 | 20 | 26-38 | 46392-31740 |
| | 40 | 26-38 | 92772-63480 | 30 | 28-41 | 64608-44124 | 25 | 33-49 | 45684-30768 |
| | 50 | 33-49 | 91368-61536 | 40 | 37-56 | 65196-43068 | 30 | 40-60 | 45228-30156 |
| | 60 | 40-60 | 90456-60300 | 50 | 47-72 | 64152-41880 | 40 | 54-70 | 44664-34464 |
| | 75 | 51-70 | 88680-64608 | 60 | 57-75 | 63480-48240 | 50 | 70-75 | 43068-40200 |
| | — | — | — | 75 | 74-75 | 61116-60300 | — | — | — |
| SMR9-15/1 | 40 | 19-25 | 126948-96480 | 30 | 20-27 | 90456-67008 | 20 | 19-25 | 63480-48240 |
| | 50 | 23-32 | 131088-94224 | 40 | 26-36 | 92772-67008 | 25 | 23-32 | 65544-47112 |
| | 60 | 28-39 | 129216-92772 | 50 | 33-46 | 91368-65544 | 30 | 28-39 | 64608-46392 |
| | 75 | 35-50 | 129216-90456 | 60 | 40-56 | 90456-64608 | 40 | 38-53 | 63480-45516 |
| | — | — | — | 75 | 50-73 | 90456-61956 | 50 | 47-69 | 64152-43692 |
| | — | — | — | — | — | — | 60 | 57-85 | 63480-42564 |
| SMR9-25/1 | 10 | 5 | 120600 | 7.5 | 5 | 90456 | 5 | 5 | 60300 |
| | 15 | 7-8 | 129216-113064 | 10 | 6-7 | 100500-86148 | 7.5 | 7-8 | 64608-56532 |
| | 20 | 9-12 | 134004-100500 | 15 | 10-12 | 90456-75384 | 10 | 9-12 | 67008-50256 |
| | 25 | 11-15 | 137052-100500 | 20 | 13-17 | 92772-70944 | 15 | 14-19 | 64608-47604 |
| | 30 | 14-19 | 129216-95220 | 25 | 16-22 | 94224-68520 | 20 | 19-25 | 63480-48240 |
| | 40 | 19-25 | 126948-96480 | 30 | 20-27 | 90456-67008 | 25 | 23-32 | 65544-47112 |
| | 50 | 23-32 | 131088-94224 | 40 | 26-36 | 92772-67008 | 30 | 28-39 | 64608-46392 |
| | 60 | 28-39 | 129216-92772 | 50 | 33-46 | 91368-65544 | 40 | 38-53 | 63480-45516 |
| | 75 | 35-50 | 129216-90456 | 60 | 40-56 | 90456-64608 | 50 | 47-69 | 64152-43692 |
| | — | — | — | 75 | 50-73 | 90456-61956 | 60 | 57-75 | 63480-48240 |

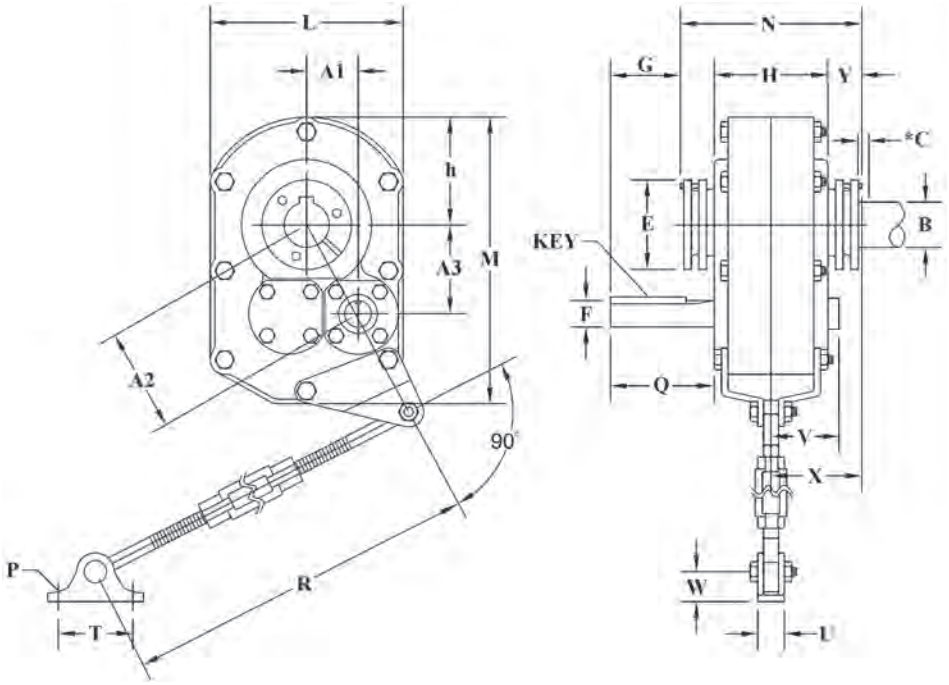


* All output torque ratings are listed in inch pounds.

# WORLDWIDE GEAR REDUCERS

## *Shaft Mount Reducers*

### *"Original" Shaft Mount Reducer Dimensions*




ALL DIMENSIONS IN INCHES

| Box Size | L<br>M | N | F<br>Key | B<br>Max. | C | E<br>G | W<br>U | X<br>V | Q<br>Y | H | A1<br>A2 | A3<br>h | R Min.<br>R Max. | P<br>T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 8.38<br>11.41 | 7.32 | 1.13<br>0.25 x 0.13 x 2.50 | 1 15/16 | 1.25 | 4.06<br>2.22 | 1.06<br>1.25 | 3.68<br>2.89 | 3.59<br>1.4 | 4.56 | 2.14<br>4.32 | 3.75<br>4.09 | 26.94<br>32.94 | 0.44<br>3 |
| 3 | 9.25<br>12.88 | 9.22 | 1.25<br>0.25 x 0.13 x 2.88 | 2 3/16 | 1.5 | 4.38<br>2.34 | 1.06<br>1.25 | 4.52<br>3.3 | 4.34<br>1.59 | 5.63 | 2.33<br>4.78 | 4.17<br>4.84 | 26.94<br>32.94 | 0.44<br>3 |
| 4 | 10.38<br>15.13 | 9.98 | 1.44<br>0.38 x 0.19 x 4.06 | 2 7/16 | 1.75 | 4.81<br>3.44 | 1.75<br>1.44 | 4.79<br>3.41 | 5.57<br>1.72 | 6.13 | 2.76<br>5.53 | 4.79<br>5.5 | 29.19<br>35.19 | 0.55<br>4 |
| 5 | 13.13<br>18.31 | 10.52 | 1.94<br>0.50 x 0.25 x 4.50 | 2 15/16 | 1.81 | 5.63<br>3.44 | 1.75<br>1.44 | 5.05<br>4.45 | 5.74<br>1.91 | 6.31 | 3.04<br>6.43 | 5.67<br>6.56 | 29.19<br>35.19 | 0.5<br>4 |
| 6 | 15.13<br>21.31 | 11.53 | 2.19<br>0.50 x 0.25 x 4.50 | 3 7/16 | 1.81 | 6.13<br>3.73 | 2<br>2.75 | 5.73<br>4.57 | 6.08<br>2.3 | 6.88 | 4.09<br>7.88 | 6.71<br>7.56 | 29.19<br>35.19 | 0.63<br>4.75 |
| 7 | 18.75<br>25.94 | 12.85 | 2.44<br>0.63 x 0.31 x 4.75 | 3 15/16 | 2.06 | 7.25<br>3.75 | 2<br>2.75 | 6.38<br>4.69 | 6.35<br>2.5 | 7.75 | 5.11<br>9.74 | 8.3<br>9.38 | 29.44<br>35.44 | 0.63<br>4.75 |
| 8 | 20.25<br>28.25 | 14.03 | 2.44<br>0.63 x 0.31 x 5.38 | 4 7/16 | 2.06 | 7.75<br>4.31 | 3.13<br>4 | 7.04<br>5.85 | 7.11<br>2.86 | 8.37 | 6.03<br>11.25 | 9.5<br>10.13 | 30<br>36 | 0.75<br>7 |
| 9 | 22.63<br>31.69 | 14.12 | 2.44<br>0.63 x 0.31 x 7.75 | 4 15/16 | 2.44 | 8.75<br>6.63 | 3.13<br>4 | 7.04<br>5.66 | 9.65<br>2.98 | 8.12 | 6.59<br>12.66 | 10.81<br>11.31 | 30<br>36 | 0.75<br>7 |



Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

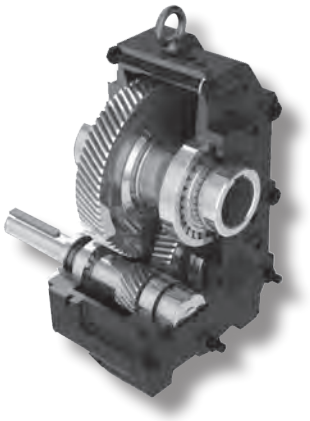
# WORLDWIDE GEAR REDUCERS

## *Shaft Mount Reducers*

### *"Ultimate" Shaft Mount Reducer*

### *Product Overview*





## Product Overview

- 15:1 and 25:1 ratios
- Box sizes 2 - 9
- Tapered bushing type (bushing not included)
- Premium quality ball and tapered bearings - double lip seals
- Shafts and gears manufactured from high grade steel, case hardened and precision ground to AGMA standards
- Industrial grade all-cast iron housings protect gearing for life
- Extended gear centers and tooth contact
- Metal reinforced double lip, spring loaded oil seals
- Dimensional drop-in for all major makes
- Torque arm included
- Made in Taiwan (highest level of manufacturing expertise)
- 3 year warranty

| Box Size | Ratio | Output Bore (Max.) | Approx. Wt. (lbs.) | Model Number | List Price |
|---|---|---|---|---|---|
| 2 | 15:1<br>25:1 | 1 15/16" | 68 | WSMR2-15:1<br>WSMR2-25:1 | $1,274.42 |
| 3 | 15:1<br>25:1 | 2 3/16" | 106 | WSMR3-15:1<br>WSMR3-25:1 | $1,903.78 |
| 4 | 15:1<br>25:1 | 2 7/16" | 156 | WSMR4-15:1<br>WSMR4-25:1 | $2,574.96 |
| 5 | 15:1<br>25:1 | 2 15/16" | 204 | WSMR5-15:1<br>WSMR5-25:1 | $3,867.12 |
| 6 | 15:1<br>25:1 | 3 7/16" | 314 | WSMR6-15:1<br>WSMR6-25:1 | $5,052.94 |
| 7 | 15:1<br>25:1 | 3 15/16" | 487 | WSMR7-15:1<br>WSMR7-25:1 | $9,384.77 |
| 8 | 15:1<br>25:1 | 4 7/16" | 655 | WSMR8-15:1<br>WSMR8-25:1 | $12,055.49 |
| 9 | 15:1<br>25:1 | 4 15/16" | 783 | WSMR9-15:1<br>WSMR9-25:1 | $17,075.59 |

## Output Shaft Overhung Load Ratings

| Box Size | Shaft Size | Overhung Load (lbs.) At Various RPMs | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10 | 20 | 30 | 50 | 80 | 100 | 120 | 140 | 160 | 180 | 200 |
| 2 | 1 7/16 | 2000 | 1510 | 1270 | 1010 | 840 | 820 | 720 | 720 | 710 | 710 | 700 |
| | 1 15/16 | 1750 | 1320 | 1110 | 890 | 730 | 710 | 630 | 630 | 620 | 620 | 610 |
| 3 | 1 15/16 | 5400 | 4250 | 3680 | 3050 | 2620 | 2440 | 2310 | 2210 | 2110 | 2040 | 1980 |
| | 2 3/16 | 5240 | 4120 | 3570 | 2960 | 2540 | 2370 | 2240 | 2140 | 2050 | 1980 | 1920 |
| 4 | 2 3/16 | 6520 | 5180 | 4510 | 3800 | 3230 | 3000 | 2830 | 2710 | 2600 | 2510 | 2430 |
| | 2 7/16 | 6360 | 5060 | 4410 | 3710 | 3160 | 2930 | 2770 | 2640 | 2530 | 2450 | 2370 |
| 5 | 2 7/16 | 7460 | 5860 | 5080 | 4280 | 3690 | 3450 | 3270 | 3110 | 2980 | 2880 | 2790 |
| | 2 15/16 | 7060 | 5540 | 4800 | 4040 | 3490 | 3260 | 3090 | 2940 | 2820 | 2720 | 2640 |
| 6 | 2 15/16 | 9100 | 7100 | 6100 | 5000 | 4100 | 4050 | 3700 | 3550 | 3400 | 3300 | 3200 |
| | 3 7/16 | 8200 | 6400 | 5500 | 4500 | 3700 | 3650 | 3400 | 3300 | 3250 | 3200 | 3150 |
| 7 | 3 7/16 | 11400 | 9500 | 7300 | 5950 | 4750 | 5050 | 4500 | 4300 | 4250 | 4200 | 4150 |

# WORLDWIDE GEAR REDUCERS

## *Shaft Mount Reducers*

### *"Ultimate" Shaft Mount Reducer Mechanical Ratings*

| Reducer Model Number | Service Class I | | | Service Class II | | | Service Class III | | |
|---|---|---|---|---|---|---|---|---|---|
| | Power (HP) | Output (RPM) | Output * Torque | Power (HP) | Output (RPM) | Output * Torque | Power (HP) | Output (RPM) | Output * Torque |
| WSMR2-15/1 | 2 | 16-24 | 7065-4710 | 1.5 | 18-24 | 4710-3532 | 1.5 | 26-34 | 3261-2493 |
| | 3 | 26-45 | 6521-3768 | 2 | 24-34 | 4710-3324 | 2 | 38-58 | 2975-1949 |
| | 5 | 46-74 | 6143-3819 | 3 | 38-70 | 4462-2422 | 3 | 58-100 | 2923-1695 |
| | 7.5 | 78-105 | 5434-4037 | 5 | 70-105 | 4037-2691 | 5 | 105-140 | 2691-2018 |
| | 10 | 105-140 | 5382-4037 | 7.5 | 110-140 | 3853-3028 | — | — | — |
| WSMR2-25/1 | 0.5 | 4-6 | 7065-4710 | 0.33 | 4-5 | 4663-3730 | 0.25 | 4-5 | 3532-2826 |
| | 0.75 | 6-8 | 7065-5298 | 0.5 | 6-8 | 4710-3532 | 0.33 | 6-8 | 3108-2331 |
| | 1 | 8-10 | 7065-5652 | 0.75 | 8-12 | 5298-3532 | 0.5 | 8-12 | 3532-2355 |
| | 1.5 | 12-16 | 7065-5298 | 1 | 12-16 | 4710-3532 | 0.75 | 12-16 | 3532-2649 |
| | 2 | 16-24 | 7065-4710 | 1.5 | 18-24 | 4710-3532 | 1 | 16-24 | 3532-2355 |
| | 3 | 26-45 | 6521-3768 | 2 | 24-34 | 4710-3324 | 1.5 | 26-34 | 3261-2493 |
| | 5 | 46-74 | 6143-3819 | 3 | 38-70 | 4462-2422 | 2 | 38-58 | 2975-1949 |
| | 7.5 | 78-85 | 5434-4987 | 5 | 70-85 | 4037-3324 | 3 | 58-85 | 2923-1995 |
| WSMR3-15/1 | 3 | 28-30 | 6055-5652 | 2 | 16-24 | 7065-4710 | 2 | 24-38 | 4710-2975 |
| | 5 | 32-50 | 8831-5652 | 3 | 26-46 | 6521-3686 | 3 | 40-70 | 4239-2422 |
| | 7.5 | 52-74 | 8151-5728 | 5 | 50-74 | 5652-3819 | 5 | 74-105 | 3819-2691 |
| | 10 | 78-105 | 7246-5382 | 7.5 | 78-105 | 5434-4037 | 7.5 | 110-140 | 3853-3028 |
| | 15 | 110-140 | 7707-6055 | 10 | 100-140 | 5652-4037 | — | — | — |
| WSMR3-25/1 | 0.75 | 4-5 | 10597-8477 | 0.5 | 4-5 | 7065-5652 | 0.5 | 6-7 | 4710-4037 |
| | 1 | 6-7 | 9419-8074 | 0.75 | 6-7 | 7065-6055 | 0.75 | 8-10 | 5298-4239 |
| | 1.5 | 8-10 | 10597-8477 | 1 | 8-10 | 7065-5652 | 1 | 10-16 | 5652-3532 |
| | 2 | 12-16 | 9419-7065 | 1.5 | 12-16 | 7065-5298 | 1.5 | 18-24 | 4710-3532 |
| | 3 | 18-30 | 9419-5652 | 2 | 16-24 | 7065-4710 | 2 | 24-38 | 4710-2975 |
| | 5 | 32-50 | 8831-5652 | 3 | 26-46 | 6521-3686 | 3 | 40-70 | 4239-2422 |
| | 7.5 | 52-74 | 8151-5728 | 5 | 50-74 | 5652-3819 | 5 | 74-85 | 3819-3324 |
| | 10 | 78-85 | 7246-6649 | 7.5 | 78-85 | 5434-4987 | — | — | — |
| WSMR4-15/1 | 5 | 18-24 | 15699-11774 | 3 | 14-22 | 12111-7707 | 3 | 20-34 | 8477-4987 |
| | 7.5 | 26-34 | 16303-12467 | 5 | 24-34 | 11774-8311 | 5 | 38-54 | 7436-5233 |
| | 10 | 38-54 | 14873-10466 | 7.5 | 38-54 | 11154-7849 | 7.5 | 58-80 | 7308-5298 |
| | 15 | 58-80 | 14616-10597 | 10 | 54-80 | 10466-7065 | 10 | 80-140 | 765-4037 |
| | 20 | 80-110 | 14219-10276 | 15 | 85-115 | 9973-7372 | — | — | — |
| | 25 | 100-140 | 14129-10092 | 20 | 110-140 | 10276-8074 | — | — | — |
| WSMR4-25/1 | 1 | 4-5 | 14129-11303 | 0.75 | 4-5 | 10597-8477 | 0.5 | 4-5 | 7065-5652 |
| | 1.5 | 5-7 | 16955-12111 | 1 | 5-6 | 11303-9419 | 0.75 | 5-6 | 8477-7065 |
| | 2 | 6-8 | 18839-14129 | 1.5 | 6-8 | 14129-10597 | 1 | 6-8 | 9419-7065 |
| | 3 | 10-14 | 16955-12111 | 2 | 10-12 | 11303-9419 | 1.5 | 10-12 | 8477-7065 |
| | 5 | 16-24 | 17551-11774 | 3 | 14-22 | 12111-7707 | 2 | 14-18 | 8074-6280 |
| | 7.5 | 26-34 | 16303-12467 | 5 | 24-34 | 11774-8311 | 3 | 20-34 | 8477-4987 |
| | 10 | 38-54 | 14873-10466 | 7.5 | 38-54 | 11154-7849 | 5 | 38-54 | 7436-5233 |
| | 15 | 58-80 | 14616-10597 | 10 | 54-85 | 10466-6649 | 7.5 | 58-85 | 7308-4987 |
| | 20 | 80-85 | 14129-13298 | — | — | — | — | — | — |



* All output torque ratings are listed in inch pounds

Continued On Next Page

# WORLDWIDE GEAR REDUCERS

## *Shaft Mount Reducers*

### *"Ultimate" Shaft Mount Reducer Mechanical Ratings*

| Reducer Model Number | Service Class I | | | Service Class II | | | Service Class III | | |
|---|---|---|---|---|---|---|---|---|---|
| | Power (HP) | Output (RPM) | Output * Torque | Power (HP) | Output (RPM) | Output * Torque | Power (HP) | Output (RPM) | Output * Torque |
| WSMR5-15/1 | 7.5 | 22-24 | 19267-17661 | 7.5 | 24-34 | 17661-12467 | 5 | 24-34 | 11774-8311 |
| | 10 | 24-34 | 23548-16622 | 10 | 38-54 | 14873-10466 | 7.5 | 38-52 | 11154-8151 |
| | 15 | 38-54 | 22309-15699 | 15 | 58-80 | 14616-10597 | 10 | 54-80 | 10466-7065 |
| | 20 | 54-78 | 20932-14491 | 20 | 78-110 | 11491-10276 | 15 | 85-110 | 9973-7707 |
| | 25 | 70-95 | 20184-14873 | 25 | 100-125 | 14129-11303 | 20 | 110-125 | 10276-9043 |
| | 30 | 85-115 | 19947-14743 | — | — | — | — | — | — |
| | 40 | 110-125 | 20551-18085 | — | — | — | — | — | — |
| WSMR5-25/1 | 2 | 4-5 | 28258-22606 | 1.5 | 4-5 | 21194-16955 | 1 | 4-5 | 14129-11303 |
| | 3 | 6-8 | 28258-21194 | 2 | 5-6 | 22606-18839 | 1.5 | 6-7 | 14129-12111 |
| | 5 | 10-14 | 28258-20184 | 3 | 8-14 | 21194-12111 | 2 | 8-12 | 14129-9419 |
| | 7.5 | 16-24 | 26492-17661 | 5 | 16-24 | 17661-11774 | 3 | 14-22 | 12111-7707 |
| | 10 | 24-34 | 23548-16622 | 7.5 | 24-34 | 17661-12467 | 5 | 24-34 | 11774-8311 |
| | 15 | 38-54 | 22309-15699 | 10 | 38-54 | 14873-10466 | 7.5 | 38-52 | 11154-8151 |
| | 20 | 54-78 | 20932-14491 | 15 | 58-80 | 14616-10597 | 10 | 54-78 | 10466-7246 |
| | 25 | 70-80 | 20184-17661 | 20 | 78-80 | 14491-14129 | — | — | — |
| WSMR6-15/1 | 15 | 20-26 | 42387-32605 | 10 | 18-26 | 31398-21737 | 7.5 | 20-24 | 21194-17661 |
| | 20 | 26-38 | 43474-29745 | 15 | 28-40 | 30276-21194 | 10 | 26-40 | 21737-14129 |
| | 25 | 34-50 | 41556-28258 | 20 | 40-58 | 28258-19488 | 15 | 45-58 | 18839-14616 |
| | 30 | 45-62 | 37677-27346 | 25 | 52-78 | 27171-18114 | 20 | 62-74 | 18231-15275 |
| | 40 | 62-85 | 36462-26596 | 30 | 66-90 | 25689-18839 | 25 | 78-95 | 18114-14873 |
| | 50 | 78-105 | 36228-26912 | 40 | 90-120 | 25118-18839 | 30 | 95-125 | 17847-13564 |
| | 60 | 95-125 | 35694-27128 | — | — | — | — | — | — |
| WSMR6-25/1 | 3 | 4-5 | 42387-33910 | 2 | 4-5 | 28258-22606 | 1.5 | 4-5 | 21194-16955 |
| | 5 | 6-8 | 47097-35323 | 3 | 6-8 | 28258-21194 | 2 | 6-7 | 18839-16147 |
| | 7.5 | 10-12 | 42387-35323 | 5 | 10-12 | 28258-23548 | 3 | 8-12 | 21194-14129 |
| | 10 | 14-18 | 40369-31398 | 7.5 | 14-18 | 30276-23548 | 5 | 14-18 | 20184-15699 |
| | 15 | 20-26 | 42387-32605 | 10 | 18-26 | 31398-21737 | 7.5 | 20-24 | 21194-17661 |
| | 20 | 26-38 | 4347429745 | 15 | 28-40 | 30276-21194 | 10 | 26-40 | 21737-14129 |
| | 25 | 34-50 | 41556-28258 | 20 | 40-58 | 28258-19488 | 15 | 45-58 | 18839-14616 |
| | 30 | 45-62 | 37677-27346 | 25 | 52-78 | 27171-18114 | 20 | 62-70 | 18231-16147 |
| | 40 | 62-80 | 36462-28258 | 30 | 66-78 | 25689-21737 | — | — | — |
| WSMR7-15/1 | 20 | 18-22 | 62796-51378 | 20 | 26-34 | 43474-33245 | 10 | 16-24 | 35323-23548 |
| | 25 | 22-30 | 64223-47097 | 25 | 32-46 | 44153-30715 | 15 | 26-34 | 32605-24934 |
| | 30 | 26-38 | 65211-44618 | 30 | 40-58 | 42387-29232 | 20 | 38-46 | 29745-24572 |
| | 40 | 38-54 | 59491-41864 | 40 | 58-80 | 38977-28258 | 25 | 50-62 | 28258-22789 |
| | 50 | 50-74 | 56516-38187 | — | — | — | 30 | 62-80 | 27346-21194 |
| | — | — | — | — | — | — | 40 | 85-90 | 26596-25118 |
| WSMR7-25/1 | 5 | 4-5 | 70645-56516 | 3 | 4-5 | 42387-33910 | 3 | 5-7 | 33910-24221 |
| | 7.5 | 6-7 | 70645-60553 | 5 | 6-7 | 47097-40369 | 5 | 8-10 | 35323-28258 |
| | 10 | 8-10 | 70645-56516 | 7.5 | 8-10 | 52984-42387 | 7.5 | 12-14 | 35323-30276 |
| | 15 | 12-16 | 70645-52984 | 10 | 12-16 | 47097-35323 | 10 | 16-24 | 35323-23548 |
| | 20 | 16-22 | 70645-51378 | 15 | 18-26 | 47097-32605 | 15 | 26-34 | 32605-24934 |
| | 25 | 22-30 | 64223-47097 | 20 | 24-34 | 47097-33245 | 20 | 38-46 | 29745-24572 |
| | 30 | 26-38 | 65211-44618 | 25 | 32-46 | 44153-30715 | 25 | 50-62 | 28258-22789 |
| | 40 | 38-54 | 56491-41864 | 30 | 40-58 | 42387-29232 | 30 | 62-70 | 27346-24221 |
| | 50 | 50-74 | 56516-38187 | 40 | 58-74 | 38977-30549 | — | — | — |

* All output torque ratings are listed in inch pounds.

Continued On Next Page

# WORLDWIDE GEAR REDUCERS

## *Shaft Mount Reducers*

### *"Ultimate" Shaft Mount Reducer Mechanical Ratings*

| Reducer Model Number | Service Class I | | | Service Class II | | | Service Class III | | |
|---|---|---|---|---|---|---|---|---|---|
| | Power (HP) | Output (RPM) | Output * Torque | Power (HP) | Output (RPM) | Output * Torque | Power (HP) | Output (RPM) | Output * Torque |
| WSMR8-15/1 | 40 | 20-30 | 113032-75355 | 25 | 20-26 | 70645-54342 | 15 | 18-20 | 47097-42387 |
| | 50 | 28-40 | 100922-70645 | 30 | 22-32 | 77067-52984 | 20 | 20-26 | 56516-43474 |
| | 60 | 34-46 | 99734-73717 | 40 | 32-46 | 70645-49144 | 25 | 28-34 | 50461-41556 |
| | 75 | 45-70 | 94193-60553 | 50 | 40-58 | 70645-48721 | 30 | 34-46 | 49867-36858 |
| | — | — | — | 60 | 50-74 | 67819-45824 | 40 | 50-58 | 45213-38977 |
| | — | — | — | 75 | 66-74 | 64223-57280 | 50 | 62-78 | 45577-36228 |
| | — | — | — | — | — | — | 60 | 78-115 | 43474-29487 |
| WSMR8-25/1 | 7.5 | 4-5 | 105968-84774 | 5 | 4-5 | 70645-56516 | 3 | 4-5 | 42387-33910 |
| | 10 | 6-7 | 94193-80737 | 7.5 | 6-7 | 70645-60553 | 5 | 5-7 | 56516-40369 |
| | 15 | 8-9 | 105968-94193 | 10 | 8-9 | 70645-62796 | 7.5 | 7-9 | 60553-47097 |
| | 20 | 10-12 | 113032-94193 | 15 | 10-14 | 84774-60553 | 10 | 10-14 | 56516-40369 |
| | 25 | 12-16 | 117742-99306 | 20 | 14-20 | 80737-56516 | 15 | 16-20 | 52984-42387 |
| | 30 | 16-20 | 105968-84774 | 25 | 18-26 | 78495-54342 | 20 | 20-26 | 56516-43474 |
| | 40 | 20-30 | 113032-75355 | 30 | 22-32 | 77067-52984 | 25 | 28-34 | 50461-41556 |
| | 50 | 28-40 | 100922-70645 | 40 | 32-46 | 70645-49144 | 30 | 34-46 | 49867-36858 |
| | 60 | 34-46 | 99734-73717 | 50 | 40-58 | 70645-48721 | 40 | 50-58 | 45213-38977 |
| | 75 | 45-70 | 94193-60553 | 60 | 50-74 | 67819-45824 | 50 | 62-74 | 45577-38187 |
| | — | — | — | 75 | 66-74 | 64223-57280 | — | — | — |
| WSMR9-15/1 | 50 | 18-26 | 15689-108685 | 30 | 20-22 | 84774-77067 | 25 | 18-22 | 78495-64223 |
| | 60 | 22-32 | 154135-105968 | 40 | 22-30 | 102757-75355 | 30 | 22-30 | 77067-56516 |
| | 75 | 30-50 | 141290-84774 | 50 | 28-40 | 100922-70645 | 40 | 32-40 | 70645-56516 |
| | — | — | — | 60 | 34-50 | 99734-67819 | 50 | 45-52 | 62796-54342 |
| | — | — | — | 75 | 45-74 | 94193-57280 | 60 | 52-80 | 65211-42387 |
| WSMR9-25/1 | 15 | 5-6 | 169548-141290 | 7.5 | 4-5 | 105968-84774 | 5 | 4-5 | 70645-56516 |
| | 20 | 6-8 | 188387-141290 | 10 | 4-6 | 141290-94193 | 7.5 | 5-6 | 84774-70645 |
| | 25 | 8-10 | 176613-141290 | 15 | 8-9 | 105968-94193 | 10 | 6-8 | 94193-70645 |
| | 30 | 10-14 | 169548-121106 | 20 | 10-12 | 113032-94193 | 15 | 10-12 | 84774-70645 |
| | 40 | 14-20 | 161475-113032 | 25 | 12-16 | 117742-88306 | 20 | 14-16 | 80737-70645 |
| | 50 | 18-26 | 156989-108685 | 30 | 16-22 | 105968-77067 | 25 | 18-22 | 78495-64223 |
| | 60 | 22-32 | 154135-105968 | 40 | 22-30 | 102757-75355 | 30 | 22-30 | 77067-56516 |
| | 75 | 30-50 | 141290-84774 | 50 | 28-40 | 100922-70645 | 40 | 32-40 | 70645-56516 |
| | — | — | — | 60 | 34-50 | 99734-67819 | 50 | 45-52 | 62796-54342 |
| | — | — | — | 75 | 45-74 | 94193-57280 | 60 | 52-74 | 65211-45824 |

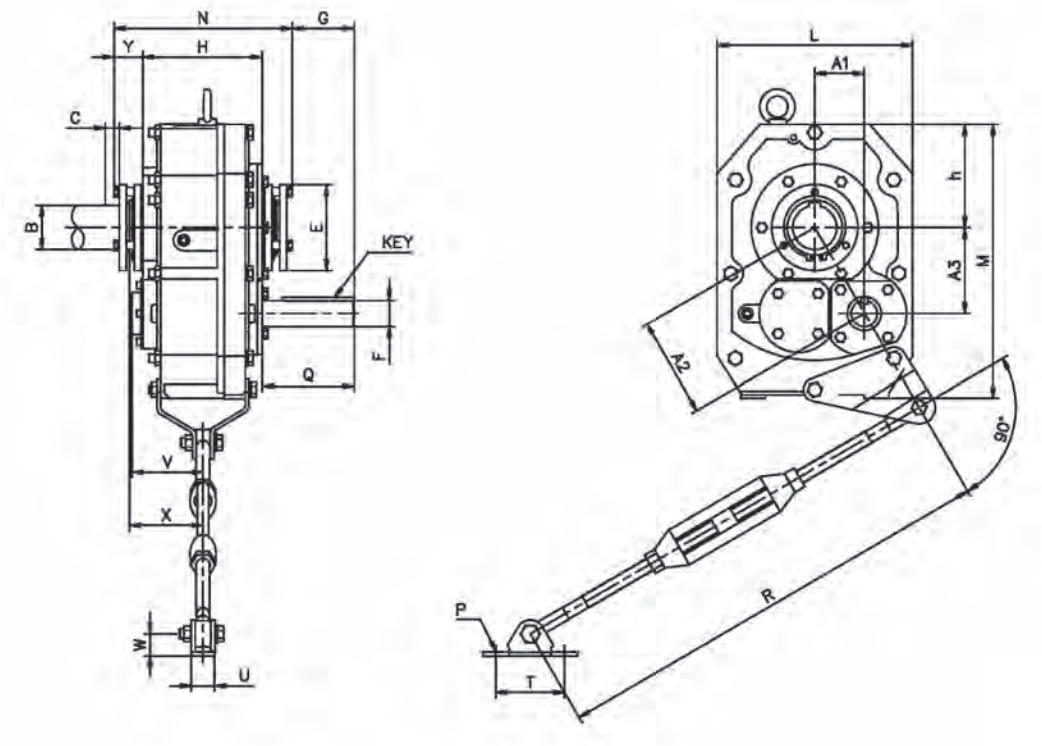


* All output torque ratings are listed in inch pounds.

# WORLDWIDE GEAR REDUCERS

## *Shaft Mount Reducers*

### *"Ultimate" Shaft Mount Reducer Dimensions*




ALL DIMENSIONS IN INCHES

| Box Size | L<br>M | N | F<br>Key | B<br>Max. | C | E<br>G | W<br>U | X<br>V | Q<br>Y | H | A1<br>A2 | A3<br>h | R Min.<br>R Max. | P<br>T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 8.38<br>11.41 | 7.32 | 1.13<br>0.25 x 0.13 x 2.50 | 1 15/16 | 1.25 | 4.06<br>2.22 | 1.06<br>1.25 | 3.68<br>2.89 | 3.59<br>1.4 | 4.56 | 2.14<br>4.32 | 3.75<br>4.09 | 26.94<br>32.94 | 0.44<br>3 |
| 3 | 9.25<br>12.88 | 9.22 | 1.25<br>0.25 x 0.13 x 2.88 | 2 3/16 | 1.5 | 4.38<br>2.34 | 1.06<br>1.25 | 4.52<br>3.3 | 4.34<br>1.59 | 5.63 | 2.33<br>4.78 | 4.17<br>4.84 | 26.94<br>32.94 | 0.44<br>3 |
| 4 | 10.38<br>15.13 | 9.98 | 1.44<br>0.38 x 0.19 x 4.06 | 2 7/16 | 1.75 | 4.81<br>3.44 | 1.75<br>1.44 | 4.79<br>3.41 | 5.57<br>1.72 | 6.13 | 2.76<br>5.53 | 4.79<br>5.5 | 29.19<br>35.19 | 0.55<br>4 |
| 5 | 13.13<br>18.31 | 10.52 | 1.94<br>0.50 x 0.25 x 4.50 | 2 15/16 | 1.81 | 5.63<br>3.44 | 1.75<br>1.44 | 5.05<br>4.45 | 5.74<br>1.91 | 6.31 | 3.04<br>6.43 | 5.67<br>6.56 | 29.19<br>35.19 | 0.5<br>4 |
| 6 | 15.13<br>21.31 | 11.53 | 2.19<br>0.50 x 0.25 x 4.50 | 3 7/16 | 1.81 | 6.13<br>3.73 | 2<br>2.75 | 5.73<br>4.57 | 6.08<br>2.3 | 6.88 | 4.09<br>7.88 | 6.71<br>7.56 | 29.19<br>35.19 | 0.63<br>4.75 |
| 7 | 18.75<br>25.94 | 12.85 | 2.44<br>0.63 x 0.31 x 4.75 | 3 15/16 | 2.06 | 7.25<br>3.75 | 2<br>2.75 | 6.38<br>4.69 | 6.35<br>2.5 | 7.75 | 5.11<br>9.74 | 8.3<br>9.38 | 29.44<br>35.44 | 0.63<br>4.75 |
| 8 | 20.25<br>28.25 | 14.03 | 2.44<br>0.63 x 0.31 x 5.38 | 4 7/16 | 2.06 | 7.75<br>4.31 | 3.13<br>4 | 7.04<br>5.85 | 7.11<br>2.86 | 8.37 | 6.03<br>11.25 | 9.5<br>10.13 | 30<br>36 | 0.75<br>7 |
| 9 | 22.63<br>31.69 | 14.12 | 2.44<br>0.63 x 0.31 x 7.75 | 4 15/16 | 2.44 | 8.75<br>6.63 | 3.13<br>4 | 7.04<br>5.66 | 9.65<br>2.98 | 8.12 | 6.59<br>12.66 | 10.81<br>11.31 | 30<br>36 | 0.75<br>7 |

Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

# WORLDWIDE GEAR REDUCERS

## *Shaft Mount Reducers*

### *Competitive Interchange*

### *Ratios 15:1 and 25:1*

#### 15:1 Ratio

| WorldWide Electric | Dodge | Hub City | Browning |
|---|---|---|---|
| WSMR2-15:1 | TXT2-15:1 | PT2 115 S 15 | 115SMT15 |
| SMR2-15:1 | | | |
| WSMR3-15:1 | TXT3-15:1 | PT3 203 S 15 | 203SMT15 |
| SMR3-15:1 | | | |
| WSMR4-15:1 | TXT4-15:1 | PT4 207 S 15 | 207SMT15 |
| SMR4-15:1 | | | |
| WSMR5-15:1 | TXT5-15:1 | PT4 215 S 15 | 215SMT15 |
| SMR5-15:1 | | | |
| WSMR6-15:1 | TXT6-15:1 | PT6 307 S 15 | 307SMT15 |
| SMR6-15:1 | | | |
| WSMR7-15:1 | TXT7-15:1 | PT7 315 S 15 | 315SMT15 |
| SMR7-15:1 | | | |
| WSMR8-15:1 | TXT8-15:1 | PT8 407 S 15 | 407SMT15 |
| SMR8-15:1 | | | |
| WSMR9-15:1 | TXT9-15:1 | — | 415SMT15 |
| SMR9-15:1 | | | |

#### 25:1 Ratio

| WorldWide Electric | Dodge | Hub City | Browning |
|---|---|---|---|
| WSMR2-25:1 | TXT2-25:1 | PT2 115 S 25 | 115SMT25 |
| SMR2-25:1 | | | |
| WSMR3-25:1 | TXT3-25:1 | PT3 203 S 25 | 203SMT25 |
| SMR3-25:1 | | | |
| WSMR4-25:1 | TXT4-25:1 | PT4 207 S 25 | 207SMT25 |
| SMR4-25:1 | | | |
| WSMR5-25:1 | TXT5-25:1 | PT4 215 S 25 | 215SMT25 |
| SMR5-25:1 | | | |
| WSMR6-25:1 | TXT6-25:1 | PT6 307 S 25 | 307SMT25 |
| SMR6-25:1 | | | |
| WSMR7-25:1 | TXT7-25:1 | PT7 315 S 25 | 315SMT25 |
| SMR7-25:1 | | | |
| WSMR8-25:1 | TXT8-25:1 | PT8 407 S 25 | 407SMT25 |
| SMR8-25:1 | | | |
| WSMR9-25:1 | TXT9-25:1 | — | 415SMT25 |
| SMR9-25:1 | | | |

# WORLDWIDE GEAR REDUCERS

## *Shaft Mount Reducers*

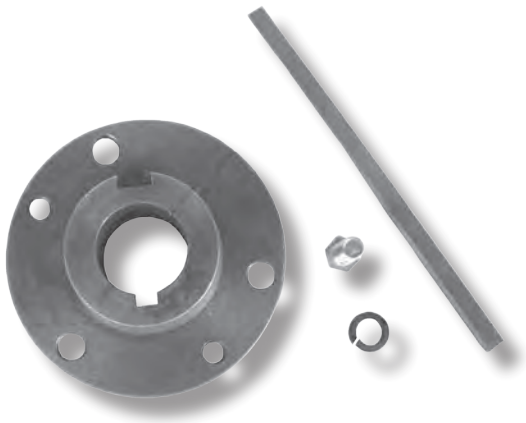
### *Accessories*

### *Tapered Bushing Kits*

| Box Size | Bushing Size (in.) | Model Number | Alternate Model Number | List Price |
|---|---|---|---|---|
| 2 | 1 ¼ | 2TBK-1.14 | 2WTBK-1.14 | $134.03 |
| | 1 5⁄16 | 2TBK-1.516 | 2WTBK-1.516 | |
| | 1 ⅜ | 2TBK-1.38 | 2WTBK-1.38 | |
| | 1 7⁄16 | 2TBK-1.716 | 2WTBK-1.716 | |
| | 1 ½ | 2TBK-1.12 | 2WTBK-1.12 | |
| | 1 ⅝ | 2TBK-1.58 | 2WTBK-1.58 | |
| | 1 11⁄16 | 2TBK-1.1116 | 2WTBK-1.1116 | |
| | 1 ¾ | 2TBK-1.34 | 2WTBK-1.34 | |
| | 1 15⁄16 | 2TBK-1.1516 | 2WTBK-1.1516 | |
| 3 | 1 11⁄16 | 3TBK-1.1116 | 3WTBK-1.1116 | $164.93 |
| | 1 ¾ | 3TBK-1.34 | 3WTBK-1.34 | |
| | 1 ⅞ | 3TBK-1.78 | 3WTBK-1.78 | |
| | 1 15⁄16 | 3TBK-1.1516 | 3WTBK-1.1516 | |
| | 2 | 3TBK-2 | 3WTBK-2 | |
| | 2 3⁄16 | 3TBK-2.316 | 3WTBK-2.316 | |
| 4 | 1 15⁄16 | 4TBK-1.1516 | 4WTBK-1.1516 | $227.36 |
| | 2 | 4TBK-2 | 4WTBK-2 | |
| | 2 ⅛ | 4TBK-2.18 | 4WTBK-2.18 | |
| | 2 3⁄16 | 4TBK-2.316 | 4WTBK-2.316 | |
| | 2 ¼ | 4TBK-2.14 | 4WTBK-2.14 | |
| | 2 7⁄16 | 4TBK-2.716 | 4WTBK-2.716 | |
| 5 | 2 3⁄16 | 5TBK-2.316 | 5WTBK-2.316 | $313.19 |
| | 2 ¼ | 5TBK-2.14 | 5WTBK-2.14 | |
| | 2 7⁄16 | 5TBK-2.716 | 5WTBK-2.716 | |
| | 2 ½ | 5TBK-2.12 | 5WTBK-2.12 | |
| | 2 11⁄16 | 5TBK-2.1116 | 5WTBK-2.1116 | |
| | 2 15⁄16 | 5TBK-2.1516 | 5WTBK-2.1516 | |
| 6 | 2 ½ | 6TBK-2.12 | 6WTBK-2.12 | $407.43 |
| | 2 11⁄16 | 6TBK-2.1116 | 6WTBK-2.1116 | |
| | 2 ⅞ | 6TBK-2.78 | 6WTBK-2.78 | |
| | 2 15⁄16 | 6TBK-2.1516 | 6WTBK-2.1516 | |
| | 3 | 6TBK-3 | 6WTBK-3 | |
| | 3 7⁄16 | 6TBK-3.716 | 6WTBK-3.716 | |
| 7 | 2 7⁄16 | 7TBK-2.716 | 7WTBK-2.716 | $547.83 |
| | 2 11⁄16 | 7TBK-2.1116 | 7WTBK-2.1116 | |
| | 2 15⁄16 | 7TBK-2.1516 | 7WTBK-2.1516 | |
| | 3 | 7TBK-3 | 7WTBK-3 | |
| | 3 3⁄16 | 7TBK-3.316 | 7WTBK-3.316 | |
| | 3 7⁄16 | 7TBK-3.716 | 7WTBK-3.716 | |
| | 3 15⁄16 | 7TBK-3.1516 | 7WTBK-3.1516 | |
| 8 | 2 15⁄16 | 8TBK-2.1516 | 8WTBK-2.1516 | $664.25 |
| | 3 7⁄16 | 8TBK-3.716 | 8WTBK-3.716 | |
| | 3 15⁄16 | 8TBK-3.1516 | 8WTBK-3.1516 | |
| | 4 3⁄16 | 8TBK-4.316 | 8WTBK-4.316 | |
| | 4 7⁄16 | 8TBK-4.716 | 8WTBK-4.716 | |
| 9 | 3 7⁄16 | 9TBK-3.716 | 9WTBK-3.716 | $780.66 |
| | 3 15⁄16 | 9TBK-3.1516 | 9WTBK-3.1516 | |
| | 4 7⁄16 | 9TBK-4.716 | 9WTBK-4.716 | |
| | 4 15⁄16 | 9TBK-4.1516 | 9WTBK-4.1516 | |

## Product Overview

- Sized for WorldWide shaft mount reducers
- Interchangeable with other manufacturers
- Fast and simple installation
- Tapered support on both sides of the reducer
- Come with fastening bolts and a full length shaft key



# WORLDWIDE GEAR REDUCERS

## *Shaft Mount Reducers*

## *Accessories*

## *Backstop Assemblies / Motor Mounts / Torque Arms*

### Backstop Assemblies

- Easy mount for WorldWide shaft mount reducers
- Smooth forward operation of conveyor with no backslip

| Box Size | Model Number | List Price |
|---|---|---|
| 2 | SMR2BSK | $214.03 |
| 3 | SMR3BSK | $273.89 |
| 4 | SMR4BSK | $273.89 |
| 5 | SMR5BSK | $325.28 |
| 6 | SMR6/7BSK | $616.32 |
| 7 | SMR6/7BSK | $616.32 |
| 8 | SMR8/9BSK | $1,350.00 |
| 9 | SMR8/9BSK | $1,350.00 |



### Motor Mounts

- Heavy gauge steel construction for NEMA frame motors
- Adjustable top plate for belt tensioning

| Box Size | NEMA Frame | Model Number | List Price |
|---|---|---|---|
| 2 | 56-215T | MM2 | $387.78 |
| 3 | 56-215T | MM3A | $398.89 |
| 4 | 143T-286T | MM4 | $621.46 |
| 5 | 143T-286T | MM5A | $621.46 |
| 6 | 143T-326T | MM6A | $864.58 |
| 7 | 143T-365T | MM7 | $927.34 |
| 8 | 213T-365T | MM8 | $1,112.81 |



### Torque Arms

- Included with EVERY shaft mount reducer
- Heavy gauge steel construction
- Machine precision ground interlocking parts for easy and accurate tensioning and tightening

| Box Size | Model Number | List Price |
|---|---|---|
| 2 | SMR2-TA | $62.67 |
| 3 | SMR3-TA | $62.67 |
| 4 | SMR4-TA | $112.00 |
| 5 | SMR5-TA | $112.00 |
| 6 | SMR6-TA | $167.42 |
| 7 | SMR7-TA | $327.83 |
| 8 | SMR8-TA | $414.50 |
| 9 | SMR9-TA | $414.50 |



# WORLDWIDE GEAR REDUCERS

## *Shaft Mount Reducers*

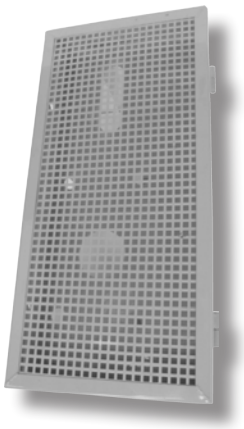
## *Accessories*

## *Belt Guards / Rebuild Kits*

### Belt Guards

- Hinge design for easy access to belts and sheaves
- Slotted metal panel construction
- Assembles to reducer and motor mount holes
- Easy mount for WorldWide shaft mount reducers

| Box Size | Model Number | List Price |
|---|---|---|
| 2 | BG2 | $387.50 |
| 3 | BG3 | $440.42 |
| 4 | BG4 | $505.17 |
| 5 | BG5 | $557.08 |
| 6 | BG6 | $634.71 |
| 7 | BG7 | $746.72 |
| 8 | BG8 | $878.49 |



### Rebuild Kits* For "Original" SMR

- Kits Include:
  - High speed input shaft
  - First gear reduction
  - Input bearings
  - Input seal
  - Output seals

* SOLD AS KIT ONLY

| Box Size | Ratio | Model Number | List Price |
|---|---|---|---|
| 3 | 15:1 | SMR315RBKIT | $425.55 |
| 3 | 25:1 | SMR325RBKIT | $425.55 |
| 4 | 15:1 | SMR415RBKIT | $524.17 |
| 4 | 25:1 | SMR425RBKIT | $524.17 |
| 5 | 15:1 | SMR515RBKIT | $698.33 |
| 5 | 25:1 | SMR525RBKIT | $698.33 |
| 6 | 15:1 | SMR615RBKIT | $940.83 |
| 6 | 25:1 | SMR625RBKIT | $940.83 |
| 7 | 15:1 | SMR715RBKIT | $1,374.17 |
| 7 | 25:1 | SMR725RBKIT | $1,374.17 |
| 8 | 15:1 | SMR815RBKIT | $1,710.00 |
| 8 | 25:1 | SMR825RBKIT | $1,710.00 |
| 9 | 15:1 | SMR915RBKIT | $2,177.50 |
| 9 | 25:1 | SMR925RBKIT | $2,177.50 |

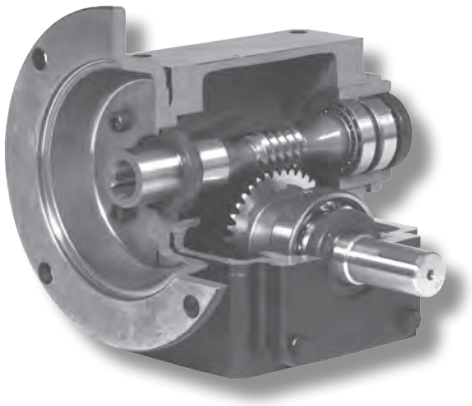


# WORLDWIDE GEAR REDUCERS

## *Worm Gear Reducers*

### *Heavy Duty Cast Iron Worm Gear Reducers*

### *Product Overview*



## Product Overview

- 5:1 - 60:1 ratios
- Box sizes 1.33 - 3.25
- One piece # Fc20 all cast iron housing
- Embedded double-lip oil seals
- Double bearings used on both shaft ends
- Anti-rust primer applied inside and outside gearbox
- S45C carbon steel shafts
- Albc3 aluminum - bronze gear
- Interior oil channel guide directly and constantly lube bearings
- Tapered roller bearing on output and input shafts
- All angle - radiused mounting holes
- Air dry special black paint
- Shaft sleeve protects all shafts
- Compact design - compact space capability
- Units filled with Mobil #SHC634 synthetic oil
- Universally interchangeable
- 1 year warranty

## How To Order

WHEN ORDERING A WORM GEAR REDUCER PLEASE USE THE FOLLOWING NOMENCLATURE

| Style | Box Size | Ratio | Output | Motor Frame * |
|---|---|---|---|---|
| S - Shaft Input | 133 | 5/1 | L - Left Hand | 56C |
| F - Flange Input | 154 | 10/1 | R - Right Hand | 145TC |
| | 175 | 15/1 | DE - Double End | 182/4TC |
| | 206 | 20/1 | H - Hollow Bore | |
| | 237 | 30/1 | | |
| | 262 | 40/1 | | |
| | 325 | 50/1 | | |
| | | 60/1 | | *Leave Blank for Shaft Input |
| HdR____ | _____ | __/__ | _____ | _____ |



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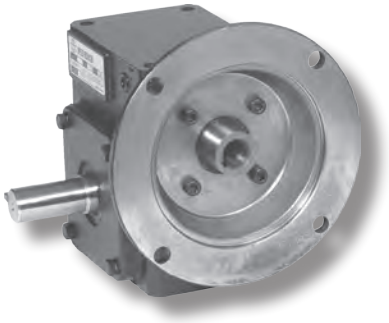
# WORLDWIDE GEAR REDUCERS

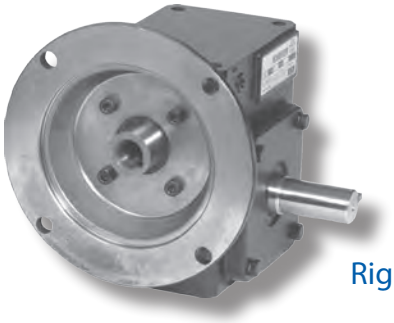
## *Worm Gear Reducers*

### *Heavy Duty Cast Iron Worm Gear Reducers*

### *Product Overview*

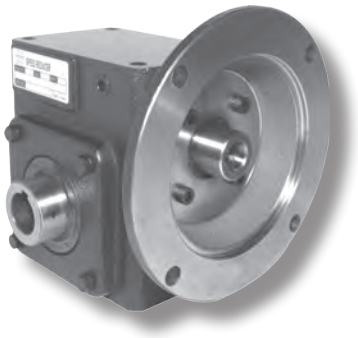
Flange Input
Shaft Output
Left Hand Output

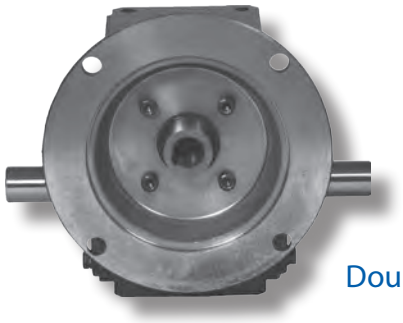




Flange Input
Shaft Output
Right Hand Output

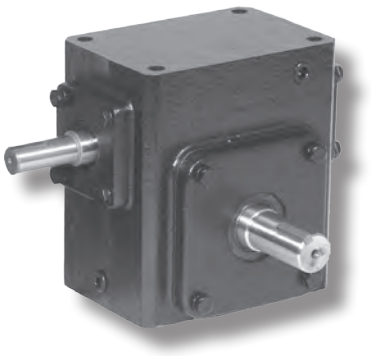
Flange Input
Hollow Bore Output

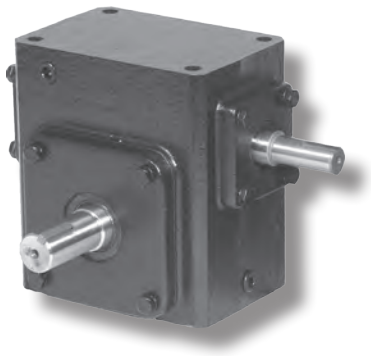




Flange Input
Shaft Output
Double End Output

Shaft Input
Shaft Output
Right Hand Output





Shaft Input
Shaft Output
Left Hand Output

# WORLDWIDE GEAR REDUCERS

## *Worm Gear Reducers*

### *Heavy Duty Cast Iron Worm Gear Reducers*

### *Mechanical Ratings*

| Input Speed | | 1750 RPM | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mechanical (1.0 SF) | | | Thermal (1.25 SF) | | | | | | |
| Box Size | Ratio | Input HP | Output Torque (lbs. in.) | Output HP | Input HP | Output Torque (lbs. in.) | Output HP | Efficiency (%) | O.H.L. (lbs.) | Output Shaft Thrust Load (lbs.) | Backlash (ft.) (Angular Minutes) |
| 133 | 5:1 | 1.21 | 209 | 1.05 | 1.15 | 221 | 1.11 | 91 | 300 | 300 | 27 |
| | 10:1 | 0.77 | 247 | 0.66 | 0.75 | 240 | 0.64 | 86 | | | |
| | 15:1 | 0.63 | 283 | 0.5 | 0.53 | 238 | 0.42 | 80 | | | |
| | 20:1 | 0.5 | 276 | 0.39 | 0.48 | 266 | 0.38 | 78 | | | |
| | 30:1 | 0.47 | 336 | 0.31 | 0.31 | 221 | 0.20 | 66 | | | |
| | 40:1 | 0.38 | 356 | 0.25 | 0.30 | 282 | 0.19 | 65 | | | |
| | 50:1 | 0.29 | 312 | 0.17 | 0.26 | 282 | 0.16 | 59 | | | |
| | 60:1 | 0.23 | 219 | 0.12 | 0.22 | 213 | 0.12 | 53 | | | |
| 154 | 5:1 | 2.06 | 341 | 1.88 | 2.04 | 345 | 1.90 | 92 | 450 | 400 | 23 |
| | 10:1 | 1.29 | 327 | 0.9 | 1.03 | 411 | 1.13 | 88 | | | |
| | 15:1 | 1.11 | 363 | 0.67 | 0.78 | 518 | 0.95 | 86 | | | |
| | 20:1 | 0.86 | 384 | 0.53 | 0.65 | 509 | 0.70 | 81 | | | |
| | 30:1 | 0.62 | 388 | 0.36 | 0.48 | 504 | 0.46 | 74 | | | |
| | 40:1 | 0.51 | 397 | 0.27 | 0.4 | 503 | 0.35 | 68 | | | |
| | 50:1 | 0.47 | 407 | 0.22 | 0.34 | 565 | 0.31 | 66 | | | |
| | 60:1 | 0.39 | 373 | 0.17 | 0.29 | 502 | 0.23 | 59 | | | |
| 175 | 5:1 | 2.83 | 499 | 2.62 | 2.28 | 402 | 2.11 | 93 | 650 | 550 | 20 |
| | 10:1 | 1.57 | 515 | 1.38 | 1.36 | 445 | 1.19 | 88 | | | |
| | 15:1 | 1.24 | 554 | 1.06 | 1.13 | 506 | 0.96 | 85 | | | |
| | 20:1 | 1.26 | 737 | 1.04 | 0.98 | 572 | 0.81 | 83 | | | |
| | 30:1 | 0.89 | 666 | 0.61 | 0.54 | 405 | 0.37 | 69 | | | |
| | 40:1 | 0.79 | 714 | 0.49 | 0.45 | 404 | 0.28 | 62 | | | |
| | 50:1 | 0.5 | 538 | 0.3 | 0.41 | 446 | 0.25 | 59 | | | |
| | 60:1 | 0.38 | 433 | 0.2 | 0.35 | 404 | 0.19 | 52 | | | |
| 206 | 5:1 | 3.62 | 925 | 3.33 | 2.57 | 657 | 2.36 | 92 | 700 | 750 | 17 |
| | 10:1 | 2.77 | 935 | 2.5 | 2.10 | 708 | 1.89 | 90 | | | |
| | 15:1 | 2.09 | 1002 | 1.78 | 1.40 | 673 | 1.20 | 85 | | | |
| | 20:1 | 1.57 | 914 | 1.29 | 1.17 | 681 | 0.96 | 82 | | | |
| | 30:1 | 1.65 | 1310 | 1.21 | 0.76 | 606 | 0.56 | 73 | | | |
| | 40:1 | 1.09 | 1120 | 0.77 | 0.71 | 726 | 0.50 | 71 | | | |
| | 50:1 | 0.74 | 830 | 0.46 | 0.54 | 606 | 0.33 | 62 | | | |
| | 60:1 | 0.6 | 750 | 0.35 | 0.48 | 606 | 0.28 | 58 | | | |
| 237 | 5:1 | 4.32 | 766 | 4.02 | 3.56 | 630 | 3.31 | 93 | 900 | 900 | 17 |
| | 10:1 | 3.47 | 1158 | 3.09 | 2.24 | 746 | 1.99 | 89 | | | |
| | 15:1 | 2.64 | 1249 | 2.22 | 1.55 | 732 | 1.30 | 84 | | | |
| | 20:1 | 2.06 | 1195 | 1.69 | 1.36 | 791 | 1.12 | 82 | | | |
| | 30:1 | 1.82 | 1507 | 1.39 | 1.02 | 847 | 0.78 | 76 | | | |
| | 40:1 | 1.45 | 1483 | 1.02 | 0.83 | 845 | 0.58 | 71 | | | |
| | 50:1 | 1.32 | 1527 | 0.84 | 0.67 | 779 | 0.43 | 64 | | | |
| | 60:1 | 0.86 | 1149 | 0.53 | 0.63 | 844 | 0.39 | 61 | | | |



Continued On Next Page

# WORLDWIDE GEAR REDUCERS

## *Worm Gear Reducers*

### *Heavy Duty Cast Iron Worm Gear Reducers*

### *Mechanical Ratings*

| Input Speed | | 1750 RPM | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Box Size | Ratio | Mechanical (1.0 SF) | | | Thermal (1.25 SF) | | | Efficiency (%) | O.H.L. (lbs.) | Output Shaft Thrust Load (lbs.) | Backlash (ft.) (Angular Minutes) |
| | | Input HP | Output Torque (lbs. in.) | Output HP | Input HP | Output Torque (lbs. in.) | Output HP | | | | |
| 262 | 5:1 | 5.24 | 924 | 4.86 | 4.32 | 761 | 4.00 | 93 | 1000 | 1000 | 17 |
| | 10:1 | 4.17 | 1445 | 3.74 | 3.06 | 1061 | 2.75 | 90 | | | |
| | 15:1 | 3.22 | 1577 | 2.81 | 2.47 | 1212 | 2.16 | 87 | | | |
| | 20:1 | 2.67 | 1563 | 2.21 | 1.84 | 1078 | 1.53 | 83 | | | |
| | 30:1 | 2.22 | 1827 | 1.68 | 1.30 | 1072 | 0.99 | 76 | | | |
| | 40:1 | 1.85 | 1919 | 1.32 | 1.11 | 1153 | 0.80 | 72 | | | |
| | 50:1 | 1.37 | 1658 | 0.92 | 0.95 | 1152 | 0.64 | 67 | | | |
| | 60:1 | 1.16 | 1670 | 0.77 | 0.94 | 1346 | 0.62 | 66 | | | |
| 325 | 5:1 | 9.72 | 1724 | 9.06 | 6.93 | 1228 | 6.46 | 93 | 1200 | 1200 | 15 |
| | 10:1 | 7.19 | 2419 | 6.46 | 4.63 | 1558 | 4.16 | 90 | | | |
| | 15:1 | 5.45 | 2611 | 4.65 | 3.19 | 1527 | 2.72 | 85 | | | |
| | 20:1 | 4.74 | 2875 | 4.07 | 3.31 | 2011 | 2.85 | 86 | | | |
| | 30:1 | 3.66 | 3045 | 2.8 | 2.00 | 1661 | 1.53 | 77 | | | |
| | 40:1 | 3.35 | 3692 | 2.55 | 1.96 | 2156 | 1.49 | 76 | | | |
| | 50:1 | 2.49 | 3413 | 1.88 | 1.92 | 2637 | 1.46 | 76 | | | |
| | 60:1 | 2.03 | 3127 | 1.44 | 1.61 | 2476 | 1.14 | 71 | | | |

# WORLDWIDE GEAR REDUCERS

## *Worm Gear Reducers*

### *Heavy Duty Cast Iron Worm Gear Reducers*

### *Flange Input - Shaft Output*

| Ratio C | Output RPM @ 1800 RPM Input | WCD Center (in.) | NEMA Motor Frame | Approx. Wt. (lbs.) | Model Number | List Price |
|---|---|---|---|---|---|---|
| 5:1 | 350 | 1.33 | 56C | 17 | HdRF133-5/1-*-56C | $224.00 |
| | | 1.54 | 56C | 22 | HdRF154-5/1-*-56C | $246.00 |
| | | 1.75 | 56C | 27 | HdRF175-5/1-*-56C | $271.00 |
| | | 2.06 | 56C | 32 | HdRF206-5/1-*-56C | $344.00 |
| | | 2.37 | 56C | 38 | HdRF237-5/1-*-56C | $414.00 |
| | | 2.62 | 182/4TC | 53 | HdRF262-5/1-*-182/4TC | $446.00 |
| | | 3.25 | 182/4TC | 90 | HdRF325-5/1-*-182/4TC | $630.00 |
| 10:1 | 175 | 1.33 | 56C | 17 | HdRF133-10/1-*-56C | $224.00 |
| | | 1.54 | 56C | 22 | HdRF154-10/1-*-56C | $246.00 |
| | | 1.75 | 56C | 27 | HdRF175-10/1-*-56C | $271.00 |
| | | 2.06 | 56C | 32 | HdRF206-10/1-*-56C | $344.00 |
| | | 2.37 | 56C | 38 | HdRF237-10/1-*-56C | $414.00 |
| | | 2.62 | 182/4TC | 53 | HdRF262-10/1-*-182/4TC | $446.00 |
| | | 3.25 | 182/4TC | 90 | HdRF325-10/1-*-182/4TC | $630.00 |
| 15:1 | 120 | 1.33 | 56C | 17 | HdRF133-15/1-*-56C | $224.00 |
| | | 1.54 | 56C | 22 | HdRF154-15/1-*-56C | $246.00 |
| | | 1.75 | 56C | 27 | HdRF175-15/1-*-56C | $271.00 |
| | | 2.06 | 56C | 32 | HdRF206-15/1-*-56C | $344.00 |
| | | 2.37 | 56C | 38 | HdRF237-15/1-*-56C | $414.00 |
| | | 2.62 | 56C | 53 | HdRF262-15/1-*-56C | $446.00 |
| | | 2.62 | 145TC | 53 | HdRF262-15/1-*-145TC | $446.00 |
| | | 3.25 | 182/4TC | 90 | HdRF325-15/1-*-182/4TC | $630.00 |
| 20:1 | 88 | 1.33 | 56C | 17 | HdRF133-20/1-*-56C | $224.00 |
| | | 1.54 | 56C | 22 | HdRF154-20/1-*-56C | $246.00 |
| | | 1.75 | 56C | 27 | HdRF175-20/1-*-56C | $271.00 |
| | | 2.06 | 56C | 32 | HdRF206-20/1-*-56C | $344.00 |
| | | 2.37 | 56C | 38 | HdRF237-20/1-*-56C | $414.00 |
| | | 2.62 | 56C | 53 | HdRF262-20/1-*-56C | $446.00 |
| | | 2.62 | 145TC | 53 | HdRF262-20/1-*-145TC | $446.00 |
| | | 3.25 | 182/4TC | 90 | HdRF325-20/1-*-182/4TC | $630.00 |
| 30:1 | 58 | 1.33 | 56C | 17 | HdRF133-30/1-*-56C | $224.00 |
| | | 1.54 | 56C | 22 | HdRF154-30/1-*-56C | $246.00 |
| | | 1.75 | 56C | 27 | HdRF175-30/1-*-56C | $271.00 |
| | | 2.06 | 56C | 32 | HdRF206-30/1-*-56C | $344.00 |
| | | 2.37 | 56C | 38 | HdRF237-30/1-*-56C | $414.00 |
| | | 2.62 | 56C | 50 | HdRF262-30/1-*-56C | $446.00 |
| | | 2.62 | 145TC | 50 | HdRF262-30/1-*-145TC | $446.00 |
| | | 3.25 | 56C | 87 | HdRF325-30/1-*-56C | $630.00 |
| | | 3.25 | 145TC | 87 | HdRF325-30/1-*-145TC | $630.00 |

* Insert R = Right Hand Output
Insert L = Left Hand Output
Insert DE = Double End Output

Continued On Next Page

# WORLDWIDE GEAR REDUCERS

## *Worm Gear Reducers*

### *Heavy Duty Cast Iron Worm Gear Reducers*

### *Flange Input - Shaft Output*

| Ratio C | Output RPM @ 1800 RPM Input | WCD Center (in.) | NEMA Motor Frame | Approx. Wt. (lbs.) | Model Number | List Price |
|---|---|---|---|---|---|---|
| 40:1 | 44 | 1.33 | 56C | 17 | HdRF133-40/1-*-56C | $224.00 |
| | | 1.54 | 56C | 22 | HdRF154-40/1-*-56C | $246.00 |
| | | 1.75 | 56C | 27 | HdRF175-40/1-*-56C | $271.00 |
| | | 2.06 | 56C | 32 | HdRF206-40/1-*-56C | $344.00 |
| | | 2.37 | 56C | 38 | HdRF237-40/1-*-56C | $414.00 |
| | | 2.62 | 56C | 50 | HdRF262-40/1-*-56C | $446.00 |
| | | 3.25 | 56C | 87 | HdRF325-40/1-*-56C | $630.00 |
| | | 3.25 | 145TC | 87 | HdRF325-40/1-*-145TC | $630.00 |
| 50:1 | 35 | 1.33 | 56C | 17 | HdRF133-50/1-*-56C | $224.00 |
| | | 1.54 | 56C | 22 | HdRF154-50/1-*-56C | $246.00 |
| | | 1.76 | 56C | 27 | HdRF175-50/1-*-56C | $271.00 |
| | | 2.06 | 56C | 32 | HdRF206-50/1-*-56C | $344.00 |
| | | 2.37 | 56C | 38 | HdRF237-50/1-*-56C | $414.00 |
| | | 2.62 | 56C | 50 | HdRF262-50/1-*-56C | $446.00 |
| | | 3.25 | 56C | 87 | HdRF325-50/1-*-56C | $630.00 |
| | | 3.25 | 145TC | 87 | HdRF325-50/1-*-145TC | $630.00 |
| 60:1 | 29 | 1.33 | 56C | 17 | HdRF133-60/1-*-56C | $224.00 |
| | | 1.54 | 56C | 22 | HdRF154-60/1-*-56C | $246.00 |
| | | 1.75 | 56C | 27 | HdRF175-60/1-*-56C | $271.00 |
| | | 2.06 | 56C | 32 | HdRF206-60/1-*-56C | $344.00 |
| | | 2.37 | 56C | 38 | HdRF237-60/1-*-56C | $414.00 |
| | | 2.62 | 56C | 50 | HdRF262-60/1-*-56C | $446.00 |
| | | 3.25 | 56C | 87 | HdRF325-60/1-*-56C | $630.00 |
| | | 3.25 | 145TC | 87 | HdRF325-60/1-*-145TC | $630.00 |



* Insert R = Right Hand Output
Insert L = Left Hand Output
Insert DE = Double End Output

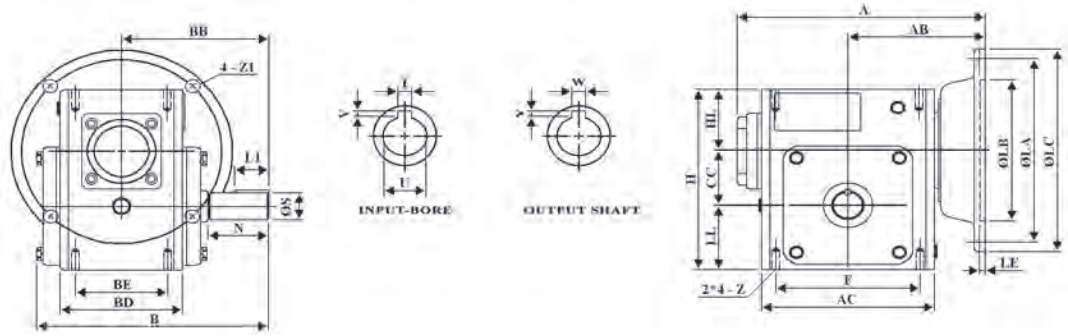
# WORLDWIDE GEAR REDUCERS

## *Worm Gear Reducers*

### *Heavy Duty Cast Iron Worm Gear Reducers*

### *Dimensions*

#### Flange Input - Shaft Output
#### Left / Right Hand Output




ALL DIMENSIONS IN INCHES

| Box Size | NEMA Frame | A | AB | AC | B | BB | BD | BE | CC | F | H | HL | LL | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 133 | 56C | 5.99 | 3.386 | 3.78 | 6.067 | 4 | 2.835 | 2 | 1.333 | 3.25 | 4.656 | 1.605 | 1.718 | 2 |
| 154 | 56C | 7.15 | 3.976 | 4.961 | 6.122 | 4.311 | 3.622 | 2.75 | 1.54 | 4.188 | 5.378 | 1.929 | 1.909 | 1.772 |
| 175 | 56C | 7.29 | 4.035 | 5.059 | 6.831 | 4.311 | 3.563 | 2.75 | 1.75 | 4.188 | 5.75 | 1.938 | 2.062 | 1.781 |
| 206 | 56C | 7.95 | 4.37 | 5.748 | 7.249 | 4.69 | 3.819 | 2.88 | 2.062 | 5 | 6.375 | 2.032 | 2.281 | 2.09 |
| 237 | 56C | 8.71 | 4.705 | 6.378 | 7.948 | 5.087 | 4.055 | 2.88 | 2.375 | 5 | 6.937 | 2.062 | 2.5 | 2.37 |
| 262 | 56C | 9.41 | 5.059 | 7.165 | 8.872 | 5.63 | 4.685 | 3.375 | 2.625 | 6.375 | 8 | 2.437 | 2.938 | 2.626 |
| | 145TC | | | | | | | | | | | | | |
| | 182/4TC | 10.57 | 6.24 | | | | | | | | | | | |
| 325 | 56C | 11.42 | 6.063 | 9.016 | 11.014 | 7.059 | 5.748 | 4 | 3.25 | 7.5 | 9.375 | 2.625 | 3.5 | 3.25 |
| | 145TC | | | | | | | | | | | | | |
| | 182/4TC | 12.59 | 7.244 | | | | | | | | | | | |

ALL DIMENSIONS IN INCHES

| Box Size | NEMA Frame | Z (UNC) | INPUT BORE | | OUTPUT SHAFT | | | FLANGE | | | | | Oil (oz.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | U | T x V | L1 | S | W x Y | LA | LB | LC | LE | Z1 | |
| 133 | 56C | 5/16 - 18 | 0.625 | 3/16 x 3/32 | 1 | 0.625 | 3/16 x 3/32 | 5.875 | 4.5 | 6.496 | 0.157 | 0.433 | 5.82 |
| 154 | 56C | 5/16 - 18 | 0.625 | 3/16 x 3/32 | 1 | 0.75 | 3/16 x 3/32 | 5.875 | 4.5 | 6.496 | 0.157 | 0.433 | 11.64 |
| 175 | 56C | 5/16 - 18 | 0.625 | 3/16 x 3/32 | 1 | 0.875 | 3/16 x 3/32 | 5.875 | 4.5 | 6.496 | 0.157 | 0.433 | 11.64 |
| 206 | 56C | 3/8 - 16 | 0.625 | 3/16 x 3/32 | 1.25 | 1 | 1/4 x 1/8 | 5.875 | 4.5 | 6.496 | 0.157 | 0.433 | 19.41 |
| 237 | 56C | 3/8 - 16 | 0.625 | 3/16 x 3/32 | 1.25 | 1.125 | 1/4 x 1/8 | 5.875 | 4.5 | 6.496 | 0.157 | 0.433 | 24.07 |
| 262 | 56C | 3/8 - 16 | 0.625 | 3/16 x 3/32 | 2 | 1.125 | 1/4 x 1/8 | 5.875 | 4.5 | 6.496 | 0.157 | 0.433 | 34.55 |
| | 145TC | | 0.875 | | | | | | | | | | |
| | 182/4TC | | 1.125 | 1/4 x 1/8 | | | | 7.25 | 8.5 | 9 | 0.197 | 0.551 | |
| 325 | 56C | 7/16 - 14 | 0.625 | 3/16 x 3/32 | 2.438 | 1.375 | 5/16 x 5/32 | 5.875 | 4.5 | 6.496 | 0.157 | 0.433 | 73.75 |
| | 145TC | | 0.875 | | | | | | | | | | |
| | 182/4TC | | 1.125 | 1/4 x 1/8 | | | | 7.25 | 8.5 | 9 | 0.197 | 0.551 | |

Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

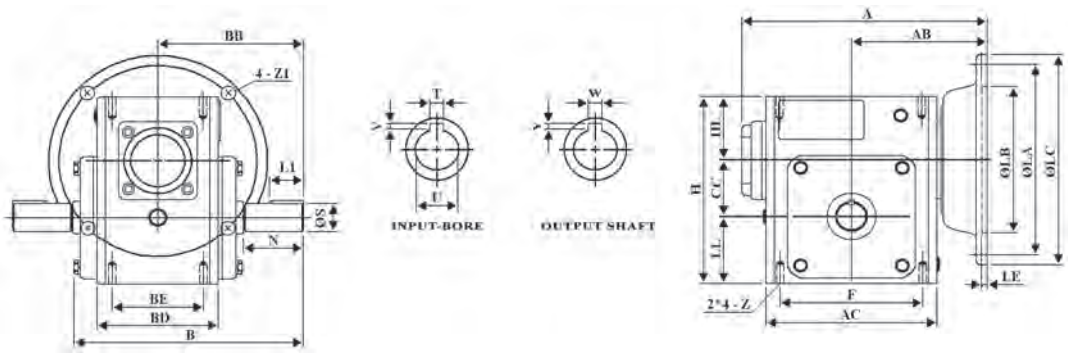
# WORLDWIDE GEAR REDUCERS

## *Worm Gear Reducers*

### *Heavy Duty Cast Iron Worm Gear Reducers*

### *Dimensions*

#### Flange Input - Shaft Output
#### Double End Output




ALL DIMENSIONS IN INCHES

| Box Size | NEMA Frame | A | AB | AC | B | BB | BD | BE | CC | F | H | HL | LL | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 133 | 56C | 5.99 | 3.386 | 3.78 | 6.067 | 4 | 2.835 | 2 | 1.333 | 3.25 | 4.656 | 1.605 | 1.718 | 2 |
| 175 | 56C | 7.29 | 4.035 | 5.059 | 6.831 | 4.311 | 3.563 | 2.75 | 1.75 | 4.188 | 5.75 | 1.938 | 2.062 | 1.781 |
| 206 | 56C | 7.95 | 4.37 | 5.748 | 7.249 | 4.69 | 3.819 | 2.88 | 2.062 | 5 | 6.375 | 2.032 | 2.281 | 2.09 |
| 237 | 56C | 8.71 | 4.705 | 6.378 | 7.948 | 5.087 | 4.055 | 2.88 | 2.375 | 5 | 6.937 | 2.062 | 2.5 | 2.37 |
| 262 | 56C | 9.41 | 5.059 | 7.165 | 8.872 | 5.63 | 4.685 | 3.375 | 2.625 | 6.375 | 8 | 2.437 | 2.938 | 2.626 |
| | 145TC | | | | | | | | | | | | | |
| | 182/4TC | 10.57 | 6.24 | | | | | | | | | | | |
| 325 | 56C | 11.42 | 6.063 | 9.016 | 11.014 | 7.059 | 5.748 | 4 | 3.25 | 7.5 | 9.375 | 2.625 | 3.5 | 3.25 |
| | 145TC | | | | | | | | | | | | | |
| | 182/4TC | 12.59 | 7.244 | | | | | | | | | | | |

ALL DIMENSIONS IN INCHES

| Box Size | NEMA Frame | Z (UNC) | INPUT BORE | | OUTPUT SHAFT | | | FLANGE | | | | | Oil (oz.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | U | T x V | L1 | S | W x Y | LA | LB | LC | LE | Z1 | |
| 133 | 56C | 5/16 - 18 | 0.625 | 3/16 x 3/32 | 1 | 0.625 | 3/16 x 3/32 | 5.875 | 4.5 | 6.496 | 0.157 | 0.433 | 5.82 |
| 175 | 56C | 5/16 - 18 | 0.625 | 3/16 x 3/32 | 1 | 0.875 | 3/16 x 3/32 | 5.875 | 4.5 | 6.496 | 0.157 | 0.433 | 11.64 |
| 206 | 56C | 3/8 - 16 | 0.625 | 3/16 x 3/32 | 1.25 | 1 | 1/4 x 1/8 | 5.875 | 4.5 | 6.496 | 0.157 | 0.433 | 19.41 |
| 237 | 56C | 3/8 - 16 | 0.625 | 3/16 x 3/32 | 1.25 | 1.125 | 1/4 x 1/8 | 5.875 | 4.5 | 6.496 | 0.157 | 0.433 | 24.07 |
| 262 | 56C | 3/8 - 16 | 0.625 | 3/16 x 3/32 | 2 | 1.125 | 1/4 x 1/8 | 5.875 | 4.5 | 6.496 | 0.157 | 0.433 | 34.55 |
| | 145TC | | 0.875 | | | | | | | | | | |
| | 182/4TC | | 1.125 | 1/4 x 1/8 | | | | 7.25 | 8.5 | 9 | 0.197 | 0.551 | |
| 325 | 56C | 7/16 - 14 | 0.625 | 3/16 x 3/32 | 2.438 | 1.375 | 5/16 x 5/32 | 5.875 | 4.5 | 6.496 | 0.157 | 0.433 | 73.75 |
| | 145TC | | 0.875 | | | | | | | | | | |
| | 182/4TC | | 1.125 | 1/4 x 1/8 | | | | 7.25 | 8.5 | 9 | 0.197 | 0.551 | |



Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

# WORLDWIDE GEAR REDUCERS

## *Worm Gear Reducers*

### *Heavy Duty Cast Iron Worm Gear Reducers*

### *Flange Input - Hollow Bore Output*

| Ratio C | Output RPM @ 1800 RPM Input | WCD Center (in.) | NEMA Motor Frame | Approx. Wt. (lbs.) | Model Number | List Price |
|---|---|---|---|---|---|---|
| 5:1 | 350 | 1.33 | 56C | 17 | HdRF133-5/1-H-56C | $302.00 |
| | | 1.75 | 56C | 27 | HdRF175-5/1-H-56C | $358.00 |
| | | 2.06 | 56C | 32 | HdRF206-5/1-H-56C | $429.00 |
| | | 2.37 | 56C | 38 | HdRF237-5/1-H-56C | $490.00 |
| | | 2.62 | 182/4TC | 53 | HdRF262-5/1-H-182/4TC | $603.00 |
| | | 3.25 | 182/4TC | 90 | HdRF325-5/1-H-182/4TC | $838.00 |
| 10:1 | 175 | 1.33 | 56C | 17 | HdRF133-10/1-H-56C | $302.00 |
| | | 1.75 | 56C | 27 | HdRF175-10/1-H-56C | $358.00 |
| | | 2.06 | 56C | 32 | HdRF206-10/1-H-56C | $429.00 |
| | | 2.37 | 56C | 38 | HdRF237-10/1-H-56C | $490.00 |
| | | 2.62 | 182/4TC | 53 | HdRF262-10/1-H-182/4TC | $603.00 |
| | | 3.25 | 182/4TC | 90 | HdRF325-10/1-H-182/4TC | $838.00 |
| 15:1 | 120 | 1.33 | 56C | 17 | HdRF133-15/1-H-56C | $302.00 |
| | | 1.75 | 56C | 27 | HdRF175-15/1-H-56C | $358.00 |
| | | 2.06 | 56C | 32 | HdRF206-15/1-H-56C | $429.00 |
| | | 2.37 | 56C | 38 | HdRF237-15/1-H-56C | $490.00 |
| | | 2.62 | 56C | 53 | HdRF262-15/1-H-56C | $603.00 |
| | | 2.62 | 145TC | 53 | HdRF262-15/1-H-145TC | $603.00 |
| | | 3.25 | 182/4TC | 90 | HdRF325-15/1-H-182/4TC | $838.00 |
| 20:1 | 88 | 1.33 | 56C | 17 | HdRF133-20/1-H-56C | $302.00 |
| | | 1.75 | 56C | 27 | HdRF175-20/1-H-56C | $358.00 |
| | | 2.06 | 56C | 32 | HdRF206-20/1-H-56C | $429.00 |
| | | 2.37 | 56C | 38 | HdRF237-20/1-H-56C | $490.00 |
| | | 2.62 | 56C | 53 | HdRF262-20/1-H-56C | $603.00 |
| | | 2.62 | 145TC | 53 | HdRF262-20/1-H-145TC | $603.00 |
| | | 3.25 | 182/4TC | 90 | HdRF325-20/1-H-182/4TC | $838.00 |
| 30:1 | 58 | 1.33 | 56C | 17 | HdRF133-30/1-H-56C | $302.00 |
| | | 1.75 | 56C | 27 | HdRF175-30/1-H-56C | $358.00 |
| | | 2.06 | 56C | 32 | HdRF206-30/1-H-56C | $429.00 |
| | | 2.37 | 56C | 38 | HdRF237-30/1-H-56C | $490.00 |
| | | 2.62 | 56C | 50 | HdRF262-30/1-H-56C | $603.00 |
| | | 2.62 | 145TC | 50 | HdRF262-30/1-H-145TC | $603.00 |
| | | 3.25 | 56C | 87 | HdRF325-30/1-H-56C | $838.00 |
| | | 3.25 | 145TC | 87 | HdRF325-30/1-H-145TC | $838.00 |
| 40:1 | 40:1 | 1.33 | 56C | 17 | HdRF133-40/1-H-56C | $302.00 |
| | | 1.75 | 56C | 27 | HdRF175-40/1-H-56C | $358.00 |
| | | 2.06 | 56C | 32 | HdRF206-40/1-H-56C | $429.00 |
| | | 2.37 | 56C | 38 | HdRF237-40/1-H-56C | $490.00 |
| | | 2.62 | 56C | 50 | HdRF262-40/1-H-56C | $603.00 |
| | | 3.25 | 56C | 87 | HdRF325-40/1-H-56C | $838.00 |
| | | 3.25 | 145TC | 87 | HdRF325-40/1-145TC | $838.00 |



Continued On Next Page

# WORLDWIDE GEAR REDUCERS

## *Worm Gear Reducers*

### *Heavy Duty Cast Iron Worm Gear Reducers*

### *Flange Input - Hollow Bore Output*

| Ratio C | Output RPM @ 1800 RPM Input | WCD Center (in.) | NEMA Motor Frame | Approx. Wt. (lbs.) | Model Number | List Price |
|---|---|---|---|---|---|---|
| 50:1 | 35 | 1.33 | 56C | 17 | HdRF133-50/1-H-56C | $302.00 |
| | | 1.76 | 56C | 27 | HdRF175-50/1-H-56C | $358.00 |
| | | 2.06 | 56C | 32 | HdRF206-50/1-H-56C | $429.00 |
| | | 2.37 | 56C | 38 | HdRF237-50/1-H-56C | $490.00 |
| | | 2.62 | 56C | 50 | HdRF262-50/1-H-56C | $603.00 |
| | | 3.25 | 56C | 87 | HdRF325-50/1-H-56C | $838.00 |
| | | 3.25 | 145TC | 87 | HdRF325-50/1-H-145TC | $838.00 |
| 60:1 | 29 | 1.33 | 56C | 17 | HdRF133-60/1-H-56C | $302.00 |
| | | 1.75 | 56C | 27 | HdRF175-60/1-H-56C | $358.00 |
| | | 2.06 | 56C | 32 | HdRF206-60/1-H-56C | $429.00 |
| | | 2.37 | 56C | 38 | HdRF237-60/1-H-56C | $490.00 |
| | | 2.62 | 56C | 50 | HdRF262-60/1-H-56C | $603.00 |
| | | 3.25 | 56C | 87 | HdRF325-60/1-H-56C | $838.00 |
| | | 3.25 | 145TC | 87 | HdRF325-60/1-H-145TC | $838.00 |

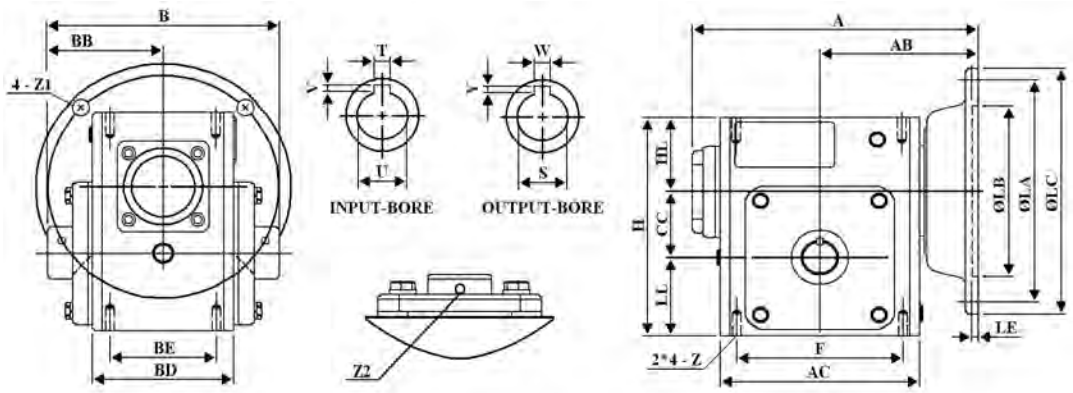
# WORLDWIDE GEAR REDUCERS

## *Worm Gear Reducers*

### *Heavy Duty Cast Iron Worm Gear Reducers*

### *Dimensions*

#### Flange Input - Hollow Bore Output




ALL DIMENSIONS IN INCHES

| Box Size | NEMA Frame | A | AB | AC | B | BB | BD | BE | CC | F | H | HL | LL | Z2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 133 | 56C | 5.98 | 3.386 | 3.78 | 4.44 | 2.218 | 2.835 | 2 | 1.333 | 3.25 | 4.656 | 1.605 | 1.718 | #10 - 32 UNF x ¼ |
| 175 | 56C | 7.28 | 4.035 | 5.059 | 6.18 | 3.091 | 3.563 | 2.75 | 1.75 | 4.19 | 5.75 | 1.938 | 2.062 | #10 - 32 UNF x ¼ |
| 206 | 56C | 7.95 | 4.37 | 5.748 | 6.44 | 3.219 | 3.819 | 2.88 | 2.062 | 5 | 6.375 | 2.032 | 2.281 | ¼ - 28 UNF x ⅜ |
| 237 | 56C | 8.68 | 4.705 | 6.378 | 6.44 | 3.22 | 4.055 | 2.88 | 2.375 | 5 | 6.937 | 2.062 | 2.5 | ¼ - 28 UNF x ⅜ |
| 262 | 56C | 9.41 | 5.059 | 7.165 | 7 | 3.5 | 4.68 | 3.375 | 2.625 | 6.38 | 8 | 2.437 | 2.938 | ¼ - 28 UNF x ⅜ |
| | 145TC | | | | | | | | | | | | | |
| | 182/4TC | 10.59 | 6.24 | | | | | | | | | | | |
| 325 | 56C | 11.42 | 6.063 | 9.016 | 8.76 | 4.38 | 5.748 | 4 | 3.25 | 7.5 | 9.375 | 2.625 | 3.5 | 5⁄16 - 24 UNF x ⅜ |
| | 145TC | | | | | | | | | | | | | |
| | 182/4TC | 12.6 | 7.244 | | | | | | | | | | | |

ALL DIMENSIONS IN INCHES

| Box Size | NEMA Frame | Z (UNC) | INPUT BORE | | OUTPUT BORE | | FLANGE | | | | | Oil (oz.) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | U | T x V | S | W x Y | LA | LB | LC | LE | Z1 | |
| 133 | 56C | 5⁄16 - 18 | 0.625 | 3⁄16 x 3⁄32 | 0.625 | 3⁄16 x 3⁄32 | 5.875 | 4.5 | 6.5 | 0.157 | 0.433 | 5.82 |
| 175 | 56C | 5⁄16 - 18 | 0.625 | 3⁄16 x 3⁄32 | 1 | ¼ x 7⁄64 | 5.875 | 4.5 | 6.5 | 0.157 | 0.433 | 11.64 |
| 206 | 56C | ⅜ - 16 | 0.625 | 3⁄16 x 3⁄32 | 1.125 | ¼ x ⅛ | 5.875 | 4.5 | 6.5 | 0.157 | 0.433 | 19.41 |
| 237 | 56C | ⅜ - 16 | 0.625 | 3⁄16 x 3⁄32 | 1.25 | ¼ x 7⁄64 | 5.875 | 4.5 | 6.5 | 0.157 | 0.433 | 24.07 |
| 262 | 56C | ⅜ - 16 | 0.625 | 3⁄16 x 3⁄32 | 1.437 | ⅜ x 5⁄32 | 5.875 | 4.5 | 6.5 | 0.157 | 0.433 | 34.55 |
| | 145TC | | 0.875 | | | | | | | | | |
| | 182/4TC | | 1.125 | ¼ x ⅛ | | | 7.25 | 8.5 | 9 | 0.2 | 0.551 | |
| 325 | 56C | 7⁄16 - 14 | 0.625 | 3⁄16 x 3⁄32 | 1.937 | ½ x 3⁄16 | 5.875 | 4.5 | 6.5 | 0.157 | 0.433 | 73.75 |
| | 145TC | | 0.875 | | | | | | | | | |
| | 1842/TC | | 1.125 | ¼ x ⅛ | | | 7.25 | 8.5 | 9 | 0.2 | 0.551 | |

Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

# WORLDWIDE GEAR REDUCERS

## *Worm Gear Reducers*

### *Heavy Duty Cast Iron Worm Gear Reducers*

### *Shaft Input - Shaft Output*

| Ratio C | Output RPM @ 1800 RPM Input | WCD Center (in.) | NEMA Motor Frame | Approx. Wt. (lbs.) | Model Number | List Price |
|---|---|---|---|---|---|---|
| 5:1 | 350 | 1.33 | 56 | 17 | HdRS133-5/1-* | $193.00 |
| | | 1.75 | 56 | 27 | HdRS175-5/1-* | $233.00 |
| | | 2.06 | 145T | 32 | HdRS206-5/1-* | $279.00 |
| | | 2.37 | 182/4T | 38 | HdRS237-5/1-* | $320.00 |
| | | 2.62 | 182/4T | 53 | HdRS262-5/1-* | $393.00 |
| | | 3.25 | 182/4T | 90 | HdRS325-5/1-* | $554.00 |
| 10:1 | 175 | 1.33 | 56 | 17 | HdRS133-10/1-* | $193.00 |
| | | 1.75 | 56 | 27 | HdRS175-10/1-* | $233.00 |
| | | 2.06 | 145T | 32 | HdRS206-10/1-* | $279.00 |
| | | 2.37 | 145T | 38 | HdRS237-10/1-* | $320.00 |
| | | 2.62 | 182/4T | 53 | HdRS262-10/1-* | $393.00 |
| | | 3.25 | 182/4T | 90 | HdRS325-10/1-* | $554.00 |
| 20:1 | 120 | 1.33 | 56 | 17 | HdRS133-20/1-* | $193.00 |
| | | 1.75 | 56 | 27 | HdRS175-20/1-* | $233.00 |
| | | 2.06 | 56 | 32 | HdRS206-20/1-* | $279.00 |
| | | 2.37 | 145T | 38 | HdRS237-20/1-* | $320.00 |
| | | 2.62 | 145T | 53 | HdRS262-20/1-* | $393.00 |
| | | 3.25 | 182/4T | 90 | HdRS325-20/1-* | $554.00 |
| 30:1 | 58 | 1.33 | 56 | 17 | HdRS133-30/1-* | $193.00 |
| | | 1.75 | 56 | 27 | HdRS175-30/1-* | $233.00 |
| | | 2.06 | 56 | 32 | HdRS206-30/1-* | $279.00 |
| | | 2.37 | 56 | 38 | HdRS237-30/1-* | $320.00 |
| | | 2.62 | 145T | 50 | HdRS262-30/1-* | $393.00 |
| | | 3.25 | 145T | 87 | HdRS325-30/1-* | $554.00 |
| 40:1 | 44 | 1.33 | 56 | 17 | HdRS133-40/1-* | $193.00 |
| | | 1.75 | 56 | 27 | HdRS175-40/1-* | $233.00 |
| | | 2.06 | 56 | 32 | HdRS206-40/1-* | $279.00 |
| | | 2.37 | 56 | 38 | HdRS237-40/1-* | $320.00 |
| | | 2.62 | 56 | 50 | HdRS262-40/1-* | $393.00 |
| | | 3.25 | 145T | 87 | HdRS325-40/1-* | $554.00 |
| 50:1 | 35 | 1.33 | 56 | 17 | HdRS133-50/1-* | $193.00 |
| | | 1.76 | 56 | 27 | HdRS175-50/1-* | $233.00 |
| | | 2.06 | 56 | 32 | HdRS206-50/1-* | $279.00 |
| | | 2.37 | 56 | 38 | HdRS237-50/1-* | $320.00 |
| | | 2.62 | 56 | 50 | HdRS262-50/1-* | $393.00 |
| | | 3.25 | 145T | 87 | HdRS325-50/1-* | $554.00 |
| 60:1 | 29 | 1.33 | 56 | 17 | HdRS133-60/1-* | $193.00 |
| | | 1.75 | 56 | 27 | HdRS175-60/1-* | $233.00 |
| | | 2.06 | 56 | 32 | HdRS206-60/1-* | $279.00 |
| | | 2.37 | 56 | 38 | HdRS237-60/1-* | $320.00 |
| | | 2.62 | 56 | 50 | HdRS262-60/1-* | $393.00 |
| | | 3.25 | 145T | 87 | HdRS325-60/1-* | $554.00 |



* Insert R = Right Hand Output
Insert L = Left Hand Output

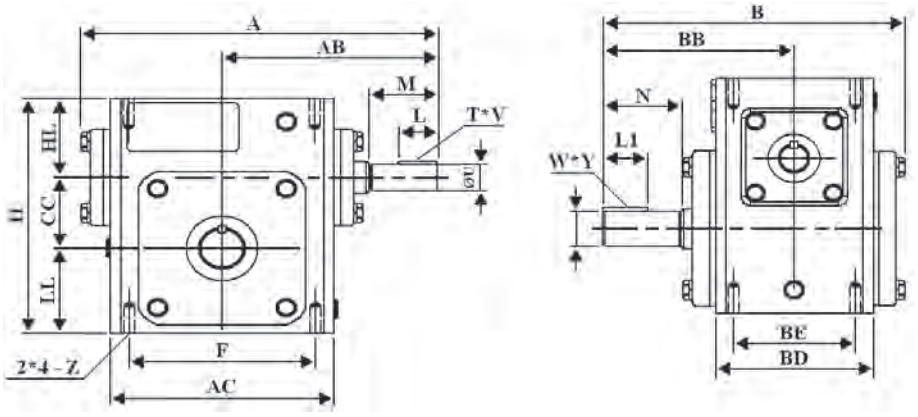
# WORLDWIDE GEAR REDUCERS

## *Worm Gear Reducers*

### *Heavy Duty Cast Iron Worm Gear Reducers*

### *Dimensions*

#### Shaft Input - Shaft Output




ALL DIMENSIONS IN INCHES

| Box Size | NEMA Frame | A | AB | AC | B | BB | BD | BE | CC | F | H | HL | LL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 133 | 56 | 6.45 | 3.907 | 3.78 | 6.067 | 4 | 2.835 | 2 | 1.333 | 3.25 | 4.656 | 1.605 | 1.718 |
| 175 | 56 | 8.06 | 4.872 | 5.059 | 6.831 | 4.311 | 3.563 | 2.75 | 1.75 | 4.188 | 5.75 | 1.938 | 2.062 |
| 206 | 56 | 8.65 | 5.128 | 5.748 | 7.249 | 4.69 | 3.819 | 2.88 | 2.062 | 5 | 6.375 | 2.032 | 2.281 |
| | 145T | | | | | | | | | | | | |
| 237 | 56 | 9.69 | 5.75 | 6.378 | 7.948 | 5.087 | 4.055 | 2.88 | 2.375 | 5 | 6.937 | 2.062 | 2.5 |
| | 145T | | | | | | | | | | | | |
| | 182/4T | | | | | | | | | | | | |
| 262 | 56 | 10.61 | 6.309 | 7.165 | 8.872 | 5.63 | 4.685 | 3.375 | 2.625 | 6.375 | 8 | 2.437 | 2.938 |
| | 145T | | | | | | | | | | | | |
| | 182/4T | | | | | | | | | | | | |
| 325 | 145T | 12.74 | 7.441 | 9.016 | 11.01 | 7.059 | 5.748 | 4 | 3.25 | 7.5 | 9.375 | 2.625 | 3.5 |
| | 182/4T | | | | | | | | | | | | |

ALL DIMENSIONS IN INCHES

| Box Size | NEMA Frame | M | N | Z (UNC) | INPUT SHAFT | | | OUTPUT SHAFT | | | Oil (oz.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | L | U | T x V | L1 | S | W x Y | |
| 133 | 56 | 1.309 | 2 | 5/16 -18 | 0.625 | 0.5 | 1/8 x 1/16 | 1 | 0.625 | 3/16 x 3/32 | 5.82 |
| 175 | 56 | 1.555 | 1.781 | 5/16 - 18 | 0.875 | 0.625 | 3/16 x 3/32 | 1 | 0.875 | 3/16 x 3/32 | 11.64 |
| 206 | 56 | 1.555 | 2.09 | 3/8 - 16 | 0.875 | 0.625 | 3/16 x 3/32 | 1.25 | 1 | 1/4 x 1/8 | 19.41 |
| | 145T | | | | | | | | | | |
| 237 | 56 | 2 | 2.37 | 3/8 - 16 | 1 | 0.75 | 3/16 x 3/32 | 1.25 | 1.125 | 1/4 x 1/8 | 24.07 |
| | 145T | | | | | | | | | | |
| | 182/4T | | | | | | | | | | |
| 262 | 56 | 2 | 2.626 | 3/8 - 16 | 1 | 0.75 | 3/16 x 3/32 | 2 | 1.125 | 1/4 x 1/8 | 34.55 |
| | 145T | | | | | | | | | | |
| | 182/4T | | | | | | | | | | |
| 325 | 145T | 2.343 | 3.25 | 7/16 - 14 | 1 | 0.875 | 3/16 x 3/32 | 2.438 | 1.375 | 5/16 x 5/32 | 73.75 |
| | 182/4T | | | | | | | | | | |

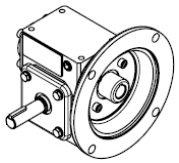
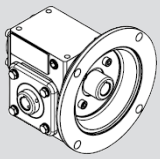
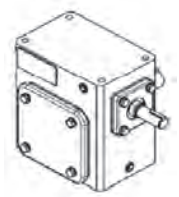
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# WORLDWIDE GEAR REDUCERS

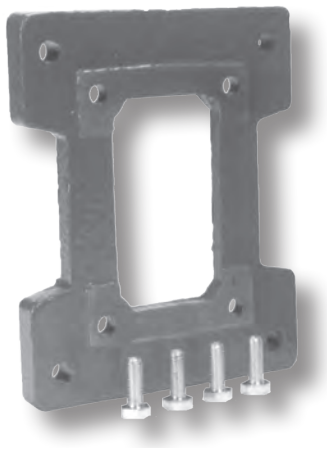
## *Worm Gear Reducers*

### *Heavy Duty Cast Iron Worm Gear Reducers*

### *Competitive Interchange*

| | Center Distance | 1.33 | 1.75 | 2.06 | 2.37 | 2.62 | 3.25 |
|---|---|---|---|---|---|---|---|
| C-FACE INPUT SHAFT OUTPUT  | WorldWide Electric | HDRF133-L/R | HDRF175-L/R | HDRF206-L/R | HDRF237-L/R | HDRF262-L/R | HDRF325-L/R |
| | Alling Lander | 13UF | 17UF | 20UF | 23UF | 26UF | 32UF |
| | Baldor | F913 | F918 | F921 | F924 | F926 | F932 |
| | Boston | F713 | F718 | F721 | F724 | F726 | F732 |
| | Browning - Raider | Q133 | Q175 | Q206 | Q237 | Q262 | Q325 |
| | Dodge - Tigear | Q133 | Q175 | Q200 | — | Q262 | — |
| | Electra * | MSC13 | MSC17 | MSC21 | — | MSC26 | — |
| | Falk - Omnibox | 1133WBM | 1175WBM | 1206WBM | 1238WBM | 1262WBM | 1325WBM |
| | Grove (New) | BMQ213 | BMQ218 | BMQ220 | BMQ224 | BMQ226 | BMQ232 |
| | Grove (Old) | BMQ1133 | BMQ1175 | BMQ1206 | BMQ1238 | BMQ1262 | BMQ1325 |
| | Hub City * | 134 | 184 | 214 | — | 264 | 324 |
| | Leeson | BMQ613 | BMQ618 | BMQ621 | BMQ624 | BMQ626 | BMQ632 |
| | Morse Cobra * | 13Q | 18Q | 21Q | — | 26Q | — |
| | Morse Raider | 713F | 718F | 721F | 724F | 726F | 732F |
| | Ohio Gear | BMQ2133 | BMQ2175 | BMQ2206 | BMQ2238 | BMQ2262 | BMQ2325 |
| | Winsmith * | 913MDN | 917MDN | 920MDN | 924MDN | 926MDN | — |
| C-FACE INPUT HOLLOW BORE OUTPUT  | WorldWide Electric ** | HDRF133-H | HDRF175-H | HDRF206-H | HDRF237-H | HDRF262-H | HDRF325-H |
| | Alling Lander | 13YF | 17YF | 20YF | 23YF | 26YF | 32YF |
| | Baldor | HF913 | HF918 | HF921 | HF924 | HF926 | HF932 |
| | Boston | HF713 | HF718 | HF721 | HF724 | HF726 | HF732 |
| | Browning - Raider | QH133 | QH175 | QH206 | QH237 | QH262 | QH325 |
| | Electra * | — | MHSC17 | MHSC21 | — | MHSC26 | — |
| | Falk - Omnibox | 1133WBQM | 1175WBQM | 1206WBQM | 1238WBQM | 1262WBQM | 1325WBQM |
| | Grove (New) | HMQ213 | HMQ218 | HMQ220 | HMQ224 | HMQ226 | HMQ232 |
| | Grove (Old) | HMQ1133 | HMQ1175 | HMQ1206 | HMQ1238 | HMQ1262 | HMQ1325 |
| | Hub City * | — | 185 | 215 | — | 265 | 325 |
| | Leeson | HMQ613 | HMQ618 | HMQ621 | HMQ624 | HMQ626 | HMQ632 |
| | Morse Cobra * | 13QH | 18QH | 21QH | — | 26QH | — |
| | Morse Raider | 713SF | 718SF | 721SF | 724SF | 726SF | 732SF |
| | Ohio Gear | SM2133MQ | SM2175MQ | SM2206MQ | SM2238MQ | SM2262MQ | SM2325MQ |
| | Winsmith * | — | 917MDSN | 920MDSN | 924MDSN | 926MDSN | — |
| SHAFT INPUT SHAFT OUTPUT  | WorldWide Electric | HDRS133 | HDRS175 | HDRS206 | HDRS237 | HDRS262 | HDRS325 |
| | Alling Lander | 13U | 17U | 20U | 23U | 26U | 32U |
| | Baldor | S913 | S918 | S921 | S924 | S926 | S932 |
| | Boston | 713 | 718 | 721 | 724 | 726 | 732 |
| | Browning - Raider | U133 | U175 | U206 | U237 | U262 | U325 |
| | Dodge - Tigear | S133 | S175 | S200 | — | S262 | — |
| | Electra * | M13 | M17 | M21 | — | M26 | — |
| | Falk - Omnibox | 1133WB | 1175WB | 1206WB | 1238WB | 1262WB | 1325WB |
| | Grove (New) | B213 | B218 | B220 | B224 | B226 | B232 |
| | Grove (Old) | B1133 | B1175 | B1206 | B1238 | B1262 | B1325 |
| | Hub City * | 131 | 181 | 211 | — | 261 | 321 |
| | Leeson | B613 | B618 | B621 | B624 | B626 | B632 |
| | Morse Cobra * | 13U | 18U | 21U | — | 26U | — |
| | Morse Raider | 713B | 718B | 721B | 724B | 726B | 732B |
| | Ohio Gear | B2133 | B2175 | B2206 | B2238 | B2262 | B2325 |
| | Winsmith * | 913DN | 917DN | 920DN | 924DN | 926DN | — |

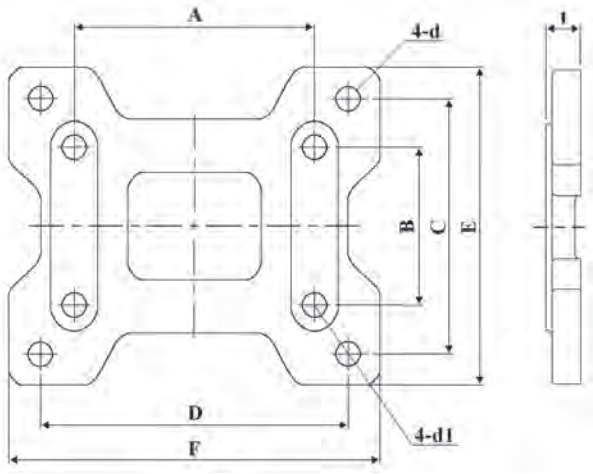
* WorldWide worm gearboxes are not dimensionally interchangeable with these manufacturers.
** WorldWide hollow bore worm gearboxes have only one output diameter bore available per center distance.



## Mounting Bases

- Box sizes 1.33 - 3.25
- Includes mounting bolts

| Box Size | Model Number | List Price |
|---|---|---|
| 133 | HdRBASE133 | $27.59 |
| 154 | HdRBASE154 | $31.03 |
| 175 | HdRBASE175 | $34.49 |
| 206 | HdRBASE206 | $41.38 |
| 237 | HdRBASE237 | $48.28 |
| 262 | HdRBASE262 | $55.18 |
| 325 | HdRBASE325 | $62.07 |




ALL DIMENSIONS IN INCHES

| Box Size | A | B | C | D | E | F | t | d | d1 |
|---|---|---|---|---|---|---|---|---|---|
| 133 | 3.25 | 2.00 | 3.31 | 4.38 | 4.19 | 5.38 | 0.53 | 11/32 | 3/8 |
| 154 | 4.19 | 2.75 | 4.31 | 5.25 | 5.44 | 6.44 | 0.59 | 11/32 | 3/8 |
| 175 | 4.19 | 2.75 | 4.50 | 5.75 | 5.69 | 7.00 | 0.69 | 13/32 | 3/8 |
| 206 | 5.00 | 2.88 | 4.69 | 6.38 | 5.94 | 7.75 | 0.72 | 15/32 | 7/16 |
| 237 | 5.00 | 2.88 | 4.88 | 7.06 | 6.22 | 8.50 | 0.75 | 15/32 | 7/16 |
| 262 | 6.38 | 3.38 | 5.25 | 8.00 | 6.66 | 9.63 | 0.75 | 17/32 | 7/16 |
| 325 | 7.50 | 4.00 | 6.13 | 9.50 | 7.66 | 11.19 | 0.88 | 17/32 | 1/2 |



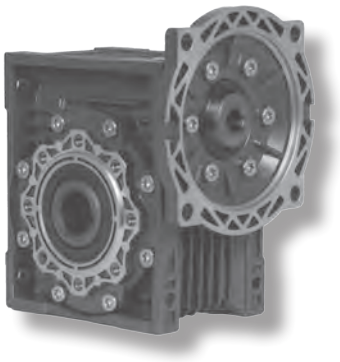
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# WORLDWIDE GEAR REDUCERS

## *Worm Gear Reducers*

### *Aluminum Worm Gear Reducers*

### *Product Overview*



## Product Overview

- 7.5:1 - 100:1 ratios
- Box sizes 30 - 90
- Aluminum alloy housing for light weight design
- Hardened worm shaft for increased durability
- Two bearings on input and output shafts
- NEMA motor input flanges
- All units filled with synthetic oil
- No vent plug or breather needed - maintenance free reducer
- Double lip oil seals prevent leakage
- Multiple mounting holes for all angle mounts
- Epoxy paint applied to inside and outside of reducer to protect against rust
- Hollow output bores with plug-in output shafts
- 1 year warranty

| Ratio C | Output RPM @ 1800 RPM Input | WCD Center (mm) | HP | NEMA Motor Frame | Approx. Wt. (lbs.) | Model Number | List Price |
|---|---|---|---|---|---|---|---|
| | | 30 | 0.69 | 56C | 3 | ALM30-7.5/1-56C | $152.00 |
| | | 40 | 1.5 | 56C | 5 | ALM40-7.5/1-56C | $186.78 |
| | | 50 | 2.64 | 56C | 8 | ALM50-7.5/1-56C | $257.81 |
| | | 63 | 4.76 | 56C | 13 | ALM63-7.5/1-56C | $333.81 |
| | | 63 | 4.76 | 145TC | 13 | ALM63-7.5/1-145TC | $333.81 |
| 7.5:1 | 233 | 75 | 6.8 | 56C | 19 | ALM75-7.5/1-56C | $482.97 |
| | | 75 | 6.8 | 145TC | 19 | ALM75-7.5/1-145TC | $482.97 |
| | | 75 | 6.8 | 182/4TC | 19 | ALM75-7.5/1-182/4TC | $482.97 |
| | | 90 | 10.56 | 56C | 28 | ALM90-7.5/1-56C | $552.56 |
| | | 90 | 10.56 | 145TC | 28 | ALM90-7.5/1-145TC | $552.56 |
| | | 90 | 10.56 | 182/4TC | 28 | ALM90-7.5/1-182/4TC | $552.56 |
| | | 30 | 0.54 | 56C | 3 | ALM30-10/1-56C | $152.00 |
| | | 40 | 1.15 | 56C | 5 | ALM40-10/1-56C | $186.78 |
| | | 50 | 2.06 | 56C | 8 | ALM50-10/1-56C | $257.81 |
| | | 63 | 3.67 | 56C | 13 | ALM63-10/1-56C | $333.81 |
| | | 63 | 3.67 | 145TC | 13 | ALM63-10/1-145TC | $333.81 |
| 10:1 | 175 | 75 | 5.44 | 56C | 19 | ALM75-10/1-56C | $482.97 |
| | | 75 | 5.44 | 145TC | 19 | ALM75-10/1-145TC | $482.97 |
| | | 75 | 5.44 | 182/4TC | 19 | ALM75-10/1-182/4TC | $482.97 |
| | | 90 | 8.56 | 56C | 28 | ALM90-10/1-56C | $552.56 |
| | | 90 | 8.56 | 145TC | 28 | ALM90-10/1-145TC | $552.56 |
| | | 90 | 8.56 | 182/4TC | 28 | ALM90-10/1-182/4TC | $552.56 |
| | | 30 | 0.38 | 56C | 3 | ALM30-15/1-56C | $152.00 |
| | | 40 | 0.8 | 56C | 5 | ALM40-15/1-56C | $186.78 |
| | | 50 | 1.47 | 56C | 8 | ALM50-15/1-56C | $257.81 |
| | | 63 | 2.76 | 56C | 13 | ALM63-15/1-56C | $333.81 |
| | | 63 | 2.76 | 145TC | 13 | ALM63-15/1-145TC | $333.81 |
| 15:1 | 117 | 75 | 3.86 | 56C | 19 | ALM75-15/1-56C | $482.97 |
| | | 75 | 3.86 | 145TC | 19 | ALM75-15/1-145TC | $482.97 |
| | | 75 | 3.86 | 182/4TC | 19 | ALM75-15/1-182/4TC | $482.97 |
| | | 90 | 6.86 | 56C | 28 | ALM90-15/1-56C | $552.56 |
| | | 90 | 6.86 | 145TC | 28 | ALM90-15/1-145TC | $552.56 |
| | | 90 | 6.86 | 182/4TC | 28 | ALM90-15/1-182/4TC | $552.56 |

Continued On Next Page

# WORLDWIDE GEAR REDUCERS

## *Worm Gear Reducers*

### *Aluminum Worm Gear Reducers*

### *Product Overview*

| Ratio C | Output RPM @ 1800 RPM Input | WCD Center (mm) | HP | NEMA Motor Frame | Approx. Wt. (lbs.) | Model Number | List Price |
|---|---|---|---|---|---|---|---|
| 20:1 | 88 | 30 | 0.3 | 56C | 3 | ALM30-20/1-56C | $152.00 |
| | | 40 | 0.61 | 56C | 5 | ALM40-20/1-56C | $186.78 |
| | | 50 | 1.13 | 56C | 8 | ALM50-20/1-56C | $257.81 |
| | | 63 | 2.04 | 56C | 13 | ALM63-20/1-56C | $333.81 |
| | | 63 | 2.04 | 145TC | 13 | ALM63-20/1-145TC | $333.81 |
| | | 75 | 3.14 | 56C | 19 | ALM75-20/1-56C | $482.97 |
| | | 75 | 3.14 | 145TC | 19 | ALM75-20/1-145TC | $482.97 |
| | | 90 | 5.18 | 56C | 28 | ALM90-20/1-56C | $552.56 |
| | | 90 | 5.18 | 145TC | 28 | ALM90-20/1-145TC | $552.56 |
| | | 90 | 5.18 | 182/4TC | 28 | ALM90-20/1-182/4TC | $552.56 |
| 25:1 | 70 | 30 | 0.3 | 56C | 3 | ALM30-25/1-56C | $152.00 |
| | | 40 | 0.5 | 56C | 5 | ALM40-25/1-56C | $186.78 |
| | | 50 | 0.91 | 56C | 8 | ALM50-25/1-56C | $257.81 |
| | | 63 | 1.64 | 56C | 13 | ALM63-25/1-56C | $333.81 |
| | | 75 | 2.45 | 56C | 19 | ALM75-25/1-56C | $482.97 |
| | | 75 | 2.45 | 145TC | 19 | ALM75-25/1-145TC | $482.97 |
| | | 90 | 4.09 | 56C | 28 | ALM90-25/1-56C | $552.56 |
| | | 90 | 4.09 | 145TC | 28 | ALM90-25/1-145TC | $552.56 |
| | | 90 | 4.09 | 182/4TC | 28 | ALM90-25/1-182/4TC | $552.56 |
| 30:1 | 58 | 30 | 0.25 | 56C | 3 | ALM30-30/1-56C | $152.00 |
| | | 40 | 0.53 | 56C | 5 | ALM40-30/1-56C | $186.78 |
| | | 50 | 0.95 | 56C | 8 | ALM50-30/1-56C | $257.81 |
| | | 63 | 1.76 | 56C | 13 | ALM63-30/1-56C | $333.81 |
| | | 75 | 2.48 | 56C | 19 | ALM75-30/1-56C | $482.97 |
| | | 90 | 4.32 | 56C | 28 | ALM90-30/1-56C | $552.56 |
| | | 90 | 4.32 | 145TC | 28 | ALM90-30/1-145TC | $552.56 |
| | | 90 | 4.32 | 182/4TC | 28 | ALM90-30/1-182/4TC | $552.56 |
| 40:1 | 44 | 30 | 0.19 | 56C | 3 | ALM30-40/1-56C | $152.00 |
| | | 40 | 0.39 | 56C | 5 | ALM40-40/1-56C | $186.78 |
| | | 50 | 0.7 | 56C | 8 | ALM50-40/1-56C | $257.81 |
| | | 63 | 1.26 | 56C | 13 | ALM63-40/1-56C | $333.81 |
| | | 75 | 1.88 | 56C | 19 | ALM75-40/1-56C | $482.97 |
| | | 90 | 2.95 | 56C | 28 | ALM90-40/1-56C | $552.56 |
| | | 90 | 2.95 | 145TC | 28 | ALM90-40/1-145TC | $552.56 |
| 50:1 | 35 | 30 | 0.14 | 56C | 3 | ALM30-50/1-56C | $152.00 |
| | | 40 | 0.31 | 56C | 5 | ALM40-50/1-56C | $186.78 |
| | | 50 | 0.57 | 56C | 8 | ALM50-50/1-56C | $257.81 |
| | | 63 | 1.01 | 56C | 13 | ALM63-50/1-56C | $333.81 |
| | | 75 | 1.5 | 56C | 19 | ALM75-50/1-56C | $482.97 |
| | | 90 | 2.33 | 56C | 28 | ALM90-50/1-56C | $552.56 |
| | | 90 | 2.33 | 145TC | 28 | ALM90-50/1-145TC | $552.56 |

Continued On Next Page

# WORLDWIDE GEAR REDUCERS

## *Worm Gear Reducers*

### *Aluminum Worm Gear Reducers*

### *Product Overview*

| Ratio C | Output RPM @ 1800 RPM Input | WCD Center (mm) | HP | NEMA Motor Frame | Approx. Wt. (lbs.) | Model Number | List Price |
|---|---|---|---|---|---|---|---|
| 60:1 | 29 | 30 | 0.12 | 56C | 3 | ALM30-60/1-56C | $152.00 |
| | | 40 | 0.25 | 56C | 5 | ALM40-60/1-56C | $186.78 |
| | | 50 | 0.46 | 56C | 8 | ALM50-60/1-56C | $257.81 |
| | | 63 | 0.86 | 56C | 13 | ALM63-60/1-56C | $333.81 |
| | | 75 | 1.26 | 56C | 19 | ALM75-60/1-56C | $482.97 |
| | | 90 | 1.9 | 56C | 28 | ALM90-60/1-56C | $552.56 |
| 80:1 | 22 | 30 | 0.09 | 56C | 3 | ALM30-80/1-56C | $152.00 |
| | | 40 | 0.19 | 56C | 5 | ALM40-80/1-56C | $186.78 |
| | | 50 | 0.38 | 56C | 8 | ALM50-80/1-56C | $257.81 |
| | | 63 | 0.67 | 56C | 13 | ALM63-80/1-56C | $333.81 |
| | | 75 | 0.97 | 56C | 19 | ALM75-80/1-56C | $482.97 |
| | | 90 | 1.39 | 56C | 28 | ALM90-80/1-56C | $552.56 |
| 100:1 | 17.5 | 30 | 0.06 | 56C | 3 | ALM30-100/1-56C | $152.00 |
| | | 40 | 0.15 | 56C | 5 | ALM40-100/1-56C | $186.78 |
| | | 50 | 0.28 | 56C | 8 | ALM50-100/1-56C | $257.81 |
| | | 63 | 0.57 | 56C | 13 | ALM63-100/1-56C | $333.81 |
| | | 75 | 0.80 | 56C | 19 | ALM75-100/1-56C | $482.97 |
| | | 90 | 1.12 | 56C | 28 | ALM90-100/1-56C | $552.56 |

# WORLDWIDE GEAR REDUCERS

## *Worm Gear Reducers*

### *Aluminum Worm Gear Reducers*

### *Mechanical Ratings*

| Input Speed | | 1750 RPM | | | | |
|---|---|---|---|---|---|---|
| Box Size | Ratio | Mechanical (1.0 SF) | | | Efficiency (%) | O.H.L. (lbs.) |
| | | Input | Output | Output | | |
| | | HP | Torque (lbs. in.) | Speed | | |
| 30 | 7.5:1 | 0.69 | 150 | 233 | 82 | 129 |
| | 10:1 | 0.54 | 150 | 175 | 80 | 142 |
| | 15:1 | 0.38 | 150 | 117 | 73 | 163 |
| | 20:1 | 0.30 | 150 | 88 | 72 | 179 |
| | 25:1 | 0.30 | 186 | 70 | 68 | 193 |
| | 30:1 | 0.25 | 177 | 58 | 62 | 205 |
| | 40:1 | 0.19 | 150 | 44 | 55 | 225 |
| | 50:1 | 0.14 | 142 | 35 | 52 | 243 |
| | 60:1 | 0.12 | 142 | 29 | 46 | 259 |
| | 80:1 | 0.09 | 106 | 22 | 40 | 284 |
| | 100:1 | 0.06 | 88 | 17.5 | 45 | 310 |
| 40 | 7.5:1 | 1.50 | 354 | 233 | 85 | 253 |
| | 10:1 | 1.15 | 354 | 175 | 83 | 279 |
| | 15:1 | 0.80 | 354 | 117 | 79 | 319 |
| | 20:1 | 0.61 | 345 | 88 | 78 | 350 |
| | 25:1 | 0.50 | 327 | 70 | 755 | 378 |
| | 30:1 | 0.53 | 389 | 58 | 68 | 403 |
| | 40:1 | 0.39 | 363 | 44 | 65 | 441 |
| | 50:1 | 0.31 | 336 | 35 | 62 | 476 |
| | 60:1 | 0.25 | 319 | 29 | 56 | 507 |
| | 80:1 | 0.19 | 283 | 22 | 50 | 556 |
| | 100:1 | 0.15 | 257 | 18 | 47 | 595 |
| 50 | 7.5:1 | 2.64 | 619 | 233 | 86 | 369 |
| | 10:1 | 2.06 | 628 | 175 | 84 | 406 |
| | 15:1 | 1.47 | 655 | 117 | 80 | 464 |
| | 20:1 | 1.13 | 646 | 88 | 78 | 510 |
| | 25:1 | 0.91 | 611 | 70 | 75 | 551 |
| | 30:1 | 0.95 | 734 | 58 | 70 | 586 |
| | 40:1 | 0.70 | 664 | 44 | 65 | 643 |
| | 50:1 | 0.57 | 646 | 35 | 60 | 694 |
| | 60:1 | 0.46 | 602 | 29 | 57 | 739 |
| | 80:1 | 0.38 | 566 | 22 | 50 | 810 |
| | 100:1 | 0.28 | 487 | 18 | 46 | 866 |
| 63 | 7.5:1 | 4.76 | 1133 | 233 | 87 | 463 |
| | 10:1 | 3.67 | 1141 | 175 | 86 | 510 |
| | 15:1 | 2.76 | 1239 | 117 | 82 | 583 |
| | 20:1 | 2.04 | 1186 | 88 | 80 | 641 |
| | 25:1 | 1.64 | 1141 | 70 | 76 | 692 |
| | 30:1 | 1.76 | 1416 | 58 | 73 | 736 |
| | 40:1 | 1.26 | 1274 | 44 | 70 | 807 |
| | 50:1 | 1.01 | 1186 | 35 | 63 | 871 |
| | 60:1 | 0.86 | 1141 | 29 | 59 | 928 |
| | 80:1 | 0.67 | 1071 | 22 | 53 | 1017 |
| | 100:1 | 0.57 | 1035 | 18 | 48 | 1088 |

Continued On Next Page

# WORLDWIDE GEAR REDUCERS

## *Worm Gear Reducers*

### *Aluminum Worm Gear Reducers*

### *Mechanical Ratings*

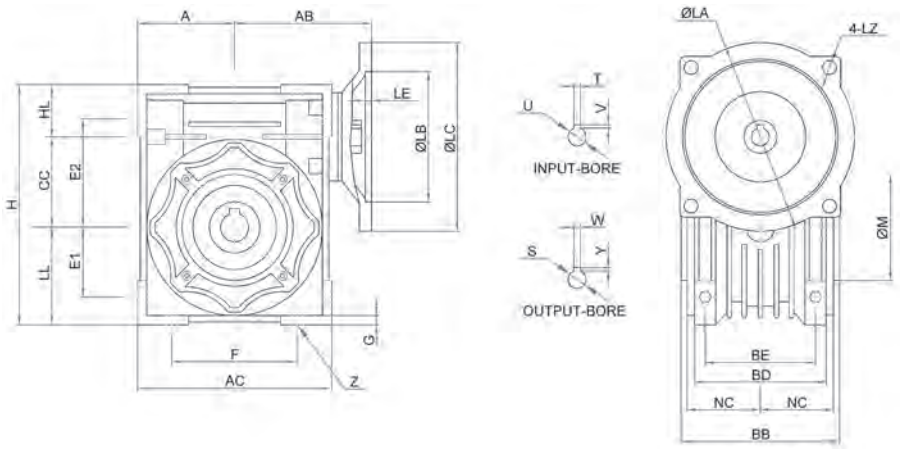
| Input Speed | | 1750 RPM | | | | |
|---|---|---|---|---|---|---|
| Box Size | Ratio | Mechanical (1.0 SF) | | | Efficiency (%) | O.H.L. (lbs.) |
| | | Input | Output | Output | | |
| | | HP | Torque (lbs. in.) | Speed | | |
| 75 | 7.5:1 | 6.80 | 1628 | 233 | 88 | 549 |
| | 10:1 | 5.44 | 1717 | 175 | 86 | 604 |
| | 15:1 | 3.886 | 1770 | 117 | 84 | 691 |
| | 20:1 | 3.14 | 1849 | 88 | 79 | 759 |
| | 25:1 | 2.45 | 1770 | 70 | 76 | 820 |
| | 30:1 | 2.48 | 2026 | 58 | 72 | 873 |
| | 40:1 | 1.88 | 1947 | 44 | 68 | 957 |
| | 50:1 | 1.50 | 1849 | 35 | 66 | 1033 |
| | 60:1 | 1.26 | 1770 | 29 | 62 | 1099 |
| | 80:1 | 0.97 | 1672 | 22 | 58 | 1205 |
| | 100:1 | 0.80 | 1593 | 18 | 52 | 1289 |
| 90 | 7.5:1 | 10.56 | 2557 | 233 | 86 | 631 |
| | 10:1 | 8.56 | 2734 | 175 | 85 | 694 |
| | 15:1 | 6.86 | 3177 | 117 | 82 | 794 |
| | 20:1 | 5.18 | 3132 | 88 | 81 | 873 |
| | 25:1 | 4.09 | 3000 | 70 | 81 | 942 |
| | 30:1 | 4.32 | 3619 | 58 | 75 | 1003 |
| | 40:1 | 2.95 | 3177 | 44 | 72 | 1100 |
| | 50:1 | 2.33 | 3000 | 35 | 71 | 1187 |
| | 60:1 | 1.90 | 2823 | 29 | 65 | 1264 |
| | 80:1 | 1.39 | 2522 | 22 | 61 | 1386 |
| | 100:1 | 1.12 | 2380 | 18 | 57 | 1482 |

# WORLDWIDE GEAR REDUCERS

## *Worm Gear Reducers*

### *Aluminum Worm Gear Reducers*

### *Dimensions*




ALL DIMENSIONS IN MILLIMETERS

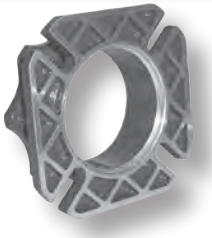
| Box Size | NEMA Frame | A | AB | AC | BB | BD | BE | CC | E1 | E2 | F | G | H | HL | LL | M |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 30 | 56C | 40 | 70 | 80 | 63 | 56 | 44 | 30 | 27 | 44 | 54 | 5.5 | 97 | 27 | 40 | 55 |
| 40 | 56C | 50 | 87.8 | 100 | 78 | 71 | 60 | 40 | 35 | 55 | 70 | 6.5 | 121.5 | 31.5 | 50 | 60 |
| 50 | 56C | 60 | 87 | 120 | 92 | 85 | 70 | 50 | 40 | 64 | 80 | 7 | 144 | 34 | 60 | 70 |
| 63 | 56C | 72 | 95 | 144 | 112 | 103 | 85 | 63 | 50 | 80 | 100 | 8 | 174 | 39 | 72 | 80 |
| | 145TC | | | | | | | | | | | | | | | |
| 75 | 56C | 86 | 112.5 | 172 | 120 | 112 | 90 | 75 | 60 | 93 | 120 | 10 | 205 | 44 | 86 | 95 |
| | 145TC | | | | | | | | | | | | | | | |
| | 182/4TC | | | | | | | | | | | | | | | |
| 90 | 56C | 103 | 129.5 | 208 | 140 | 130 | 100 | 90 | 70 | 102 | 140 | 11 | 238 | 45 | 103 | 110 |
| | 145TC | | | | | | | | | | | | | | | |
| | 182/4TC | | | | | | | | | | | | | | | |

| Box Size | NEMA Frame | NC | Z | INPUT BORE (Inches) | | OUTPUT BORE (Inches) | | FLANGE (Inches) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | U | T x V | S | W x Y | LA | LB | LC | LE | LZ |
| 30 | 56C | 29 | 6.5 | 0.625 | 3⁄16 x 3⁄32 | 0.625 | 3⁄16 x 3⁄32 | 5.875 | 4.5 | 5.787 | 0.177 | 0.413 |
| 40 | 56C | 36.5 | 6.5 | 0.625 | 3⁄16 x 3⁄32 | 0.75 | 3⁄16 x 3⁄32 | 5.875 | 4.5 | 5.787 | 0.157 | 0.413 |
| 50 | 56C | 43.5 | 8.5 | 0.625 | 3⁄16 x 3⁄32 | 1 | 1⁄4 x 7⁄64 | 5.875 | 4.5 | 5.787 | 0.157 | 0.413 |
| 63 | 56C | 53 | 8.5 | 0.625 | 3⁄16 x 3⁄32 | 1.125 | 1⁄4 x 1⁄8 | 5.875 | 4.5 | 5.787 | 0.177 | 0.413 |
| | 145TC | | | 0.875 | | | | | | | | |
| 75 | 56C | 57 | 11 | 0.625 | 3⁄16 x 3⁄32 | 1.25 | 1⁄4 x 1⁄8 | 5.875 | 4.5 | 5.787 | 0.157 | 0.413 |
| | 145TC | | | 0.875 | | | | | | | | |
| | 182/4TC | | | 1.125 | 1⁄4 x 1⁄8 | | | 7.25 | 8.5 | 9 | 0.217 | |
| 90 | 56C | 67 | 13 | 0.625 | 3⁄16 x 3⁄32 | 1.375 | 5⁄16 x 9⁄64 | 5.875 | 4.5 | 5.787 | 0.157 | 0.413 |
| | 145TC | | | 0.875 | | | | | | | | |
| | 182/4TC | | | 1.125 | 1⁄4 x 1⁄8 | | | 7.25 | 8.5 | 9 | 0.217 | |

Dimensions shown in this catalog are for general use only.
For an exact drawing on a specific rating, please contact our sales office.

## Output Flanges

| Box Size | Model Number | List Price |
|---|---|---|
| 30 | ALM30-OPF | $12.43 |
| 40 | ALM40-OPF | $14.20 |
| 50 | ALM50-OPF | $15.98 |
| 63 | ALM63-OPF | $20.42 |
| 75 | ALM75-OPF | $32.85 |
| 90 | ALM90-OPF | $40.16 |



## Torque Arms

| Box Size | Model Number | List Price |
|---|---|---|
| 30 | ALM30-TA | $16.88 |
| 40 | ALM40-TA | $18.64 |
| 50 | ALM50-TA | $20.42 |
| 63 | ALM63-TA | $33.74 |
| 75 | ALM75-TA | $55.04 |
| 90 | ALM90-TA | $62.50 |



## Single Output Shafts

| Box Size | Model Number | List Price |
|---|---|---|
| 30 | ALM30-S | $16.87 |
| 40 | ALM40-S | $19.53 |
| 50 | ALM50-S | $23.08 |
| 63 | ALM63-S | $31.07 |
| 75 | ALM75-S | $39.95 |
| 90 | ALM90-S | $51.56 |



## Double Output Shafts

| Box Size | Model Number | List Price |
|---|---|---|
| 30 | ALM30-DS | $22.19 |
| 40 | ALM40-DS | $26.63 |
| 50 | ALM50-DS | $31.07 |
| 63 | ALM63-DS | $41.73 |
| 75 | ALM75-DS | $51.49 |
| 90 | ALM90-DS | $71.44 |



## Output Cover

| Box Size | Model Number | List Price |
|---|---|---|
| 30 | ALM30-OPC | $7.50 |
| 40 | ALM40-OPC | $7.50 |
| 50 | ALM50-OPC | $12.50 |
| 63 | ALM63-OPC | $12.50 |
| 75 | ALM75-OPC | $12.50 |
| 90 | ALM90-OPC | $12.50 |



# WORLDWIDE ELECTRIC CORPORATION
## *Warranty Policy - Motors*

## *Warranty Length*

The warranty length for WorldWide Electric Motors is as follows:

| | |
|---|---|
| ***FRACTIONAL HP MOTORS*** | |
| General Purpose Motors | Two (2) years from date of sale (invoice) |
| Stainless Steel / Washdown Duty Motors | One (1) year from date of sale (invoice) |
| Jet Pump Motors | Two (2) years from date of sale (invoice) |
| Resilient (Cradle) Base Motors | Two (2) years from date of sale (invoice) |
| Compressor Duty Motors | Two (2) years from date of sale (invoice) |
| Permanent Magnet DC Motors | One (1) year from date of sale (invoice) |
| ***FARM DUTY MOTORS*** | Two (2) years from date of sale (invoice) |
| ***EISA-COMPLIANT MOTORS*** | Two (2) years from date of sale (invoice) |
| ***EXPLOSION PROOF MOTORS*** | Two (2) years from date of sale (invoice) |
| ***AGGREGATE MOTORS*** | Two (2) years from date of sale (invoice) |
| ***CLOSE-COUPLED PUMP MOTORS*** | Two (2) years from date of sale (invoice) |
| ***OIL WELL PUMP MOTORS*** | Two (2) years from date of sale (invoice) |
| ***VERTICAL HOLLOW SHAFT MOTORS*** | One (1) year from date of sale (invoice) |
| ***HYUNDAI PREMIUM EFFICIENCY MOTORS*** | Three (3) years from date of sale (invoice) |
| ***HYUNDAI IEEE-841 MOTORS*** | Five (5) years from date of sale (invoice) |
| ***HYUNDAI EXPLOSION PROOF MOTORS*** | Three (3) years from date of sale (invoice) |
| ***HYUNDAI MEDIUM VOLTAGE MOTORS*** | One (1) year from date of sale (invoice) |
| ***MOTOR SLIDE BASES*** | Three (3) years from date of sale (invoice) |

# WORLDWIDE ELECTRIC CORPORATION

## *Warranty Policy - Motors*

## *Procedure*

### *ALL WORLDWIDE ELECTRIC MOTORS WITH THE EXCEPTION OF EXPLOSION PROOF MOTORS AND VERTICAL HOLLOW SHAFT MOTORS:*

1. Motors up to and including 40 HP are covered by our no-fault policy. If the motor has failed within the warranty period, the nameplate must be mailed to WorldWide Electric for credit (photo of nameplate required for stainless steel / washdown duty motors). WorldWide Electric shall not be liable for any labor or operating costs connected with the replacement of the motor. The purchaser shall be responsible for any transportation charges connected with the replacement of the motor.
2. Motors 50 HP and above must be inspected by an authorized EASA service center or other approved motor shop for determination of cause of failure. Authorized EASA service centers are available inside and outside of the United States. Visit the EASA website at www.easa.com to find the nearest authorized service center. These shops may also be able to assist with non-warranty service.
3. The service center must provide a written estimate for inspection and a purchase order must be issued by WorldWide Electric prior to the motor inspection.
4. If the failure is determined to be from a defect in material or workmanship when operated under normal conditions and in accordance with nameplate characteristic limits, WorldWide Electric shall either repair or replace the motor. WorldWide Electric shall not be liable for any labor or operating costs connected with the repair / replacement of the motor.
5. Should WorldWide Electric choose to repair the motor, the service center must provide a written estimate for repair and a purchase order must be issued by WorldWide Electric prior to the repair being performed.
6. Should WorldWide Electric choose to replace the motor, the purchaser shall be responsible for any transportation charges connected with the replacement of the motor.

### *EXPLOSION PROOF MOTORS AND VERTICAL HOLLOW SHAFT MOTORS:*

1. Motors must be inspected by a UL certified / authorized EASA service center for determination of cause of failure. Authorized EASA service centers are available inside and outside of the United States. Visit the EASA website at www.easa.com to find the nearest authorized service center. These shops may also be able to assist with non-warranty service.
2. The service center must provide a written estimate for inspection and a purchase order must be issued by WorldWide Electric prior to the motor inspection.
3. If the failure is determined to be from a defect in material or workmanship when operated under normal conditions and in accordance with nameplate characteristic limits, WorldWide Electric shall either repair or replace the motor. WorldWide Electric shall not be liable for any labor or operating costs connected with the repair / replacement of the motor.
4. Should WorldWide Electric choose to repair the motor, the service center must provide a written estimate for repair and a purchase order must be issued by WorldWide Electric prior to the repair being performed.
5. Should WorldWide Electric choose to replace the motor, the purchaser shall be responsible for any transportation charges connected with the replacement of the motor.

# WORLDWIDE ELECTRIC CORPORATION
## *Warranty Policy - Motor Controls*

## *Warranty Length*

The warranty length for WorldWide Electric Motor Controls is as follows:

| | |
|---|---|
| ***WORLDWIDE ELECTRIC PRODUCTS*** | |
| WWE HD - Soft Start Starters | Two (2) years from documented date of service |
| ***SIEMENS PRODUCTS*** | |
| Soft Start Starters | One (1) year from date of sale (invoice) |
| NEMA and IEC Controls | One (1) year from date of sale (invoice) |
| ***HYUNDAI PRODUCTS*** | |
| HYUNDAI Variable Frequency Drives | Two (2) years from date of sale (invoice) |
| ***HUBBELL PRODUCTS*** | |
| HUBBELL Pressure Switches | One (1) year from date of sale (invoice) with ARC Code |
| HUBBELL Alternator Relays | One (1) year from date of sale (invoice) |
| HUBBELL Drum Controllers | One (1) year from date of sale (invoice) |

All qualified returns will be subject to a 20% restocking fee.
All special order / special build products are non-cancelable and non-returnable.

# WORLDWIDE ELECTRIC CORPORATION
## *Warranty Policy - Gear Reducers*

## *Limited Warranty*

WorldWide Electric Corporation (The Company) warranties its products to be free from defects in materials or workmanship to the original purchaser for a period of:

| | |
|---|---|
| *"ORIGINAL" SHAFT MOUNT REDUCERS* | Two (2) years from date of sale (invoice) |
| *"ULTIMATE" SHAFT MOUNT REDUCERS* | Three (3) years from date of sale (invoice) |
| *WORM GEAR REDUCERS* | One (1) year from date of sale (invoice) |

For this warranty to be effective, this product must be installed, used and maintained by the original purchaser in accordance with good industry standards. The warranty does not cover normal wear, tear and erosion from use, misuse, abuse or corrosion.

In the event of failure, it shall be the responsibility of the original purchaser to notify The Company either in writing or by telephone to make arrangements for the correction of the problem. The purchaser shall be responsible for transportation charges connected with the return, exchange or repair of parts. Returns found defective upon inspection by our warranty department or authorized warranty service agent will be replaced free of charge.

The Company shall not be liable for any labor cost connected with the replacement of the equipment, the replacement of the parts or adjustments to the equipment by the purchaser or their contractor without The Company's prior written approval.

The Company, as the exclusive remedy under this warranty, shall at it's option repair or replace defective items or, if agreed upon, refund the purchase price less reasonable allowance for depreciation in exchange for the product.

THE COMPANY MAKES NO OTHER WARRANTIES AND ALL IMPLIED OR EXPRESSED WARRANTIES AND REPRESENTATIONS, EXCEPT THAT OF TITLE, ARE DISCLAIMED. ALL IMPLIED WARRANTIES INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE OR USE BUT NOT LIMITED TO JUST THOSE THAT ARE DISCLAIMED. LIABILITY FOR CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES AND LOSSES UNDER ANY AND ALL WARRANTIES WHETHER IN CONTACT, TORT OR OTHERWISE, ARE EXCLUDED TO THE EXTENT EXCLUSION IS PERMITTED BY LAW.

Freight terms are as follows on all orders shipped from any of our warehouses:

## *Fractional HP Motors*

| | |
|---|---|
| 1 - 5 Pieces: | UPS - Prepay & Add |
| 6 - 24 Pieces: | Truck - 9% of Invoice / $100 Minimum |
| 25+ Pieces: | Truck - Prepaid & Allowed |

## *Integral Motors*

| | |
|---|---|
| $0 - $4,999: | Truck - 9% of Invoice / $100 Minimum |
| $5,000+: | Truck - Prepaid & Allowed |

## *Motor Controls*

| | |
|---|---|
| $50 - $999: | UPS - Prepay & Add<br>Truck - 9% of Invoice / $100 Minimum |
| $1,000+: | Truck - Prepaid & Allowed |

## *Shaft Mount Reducers*

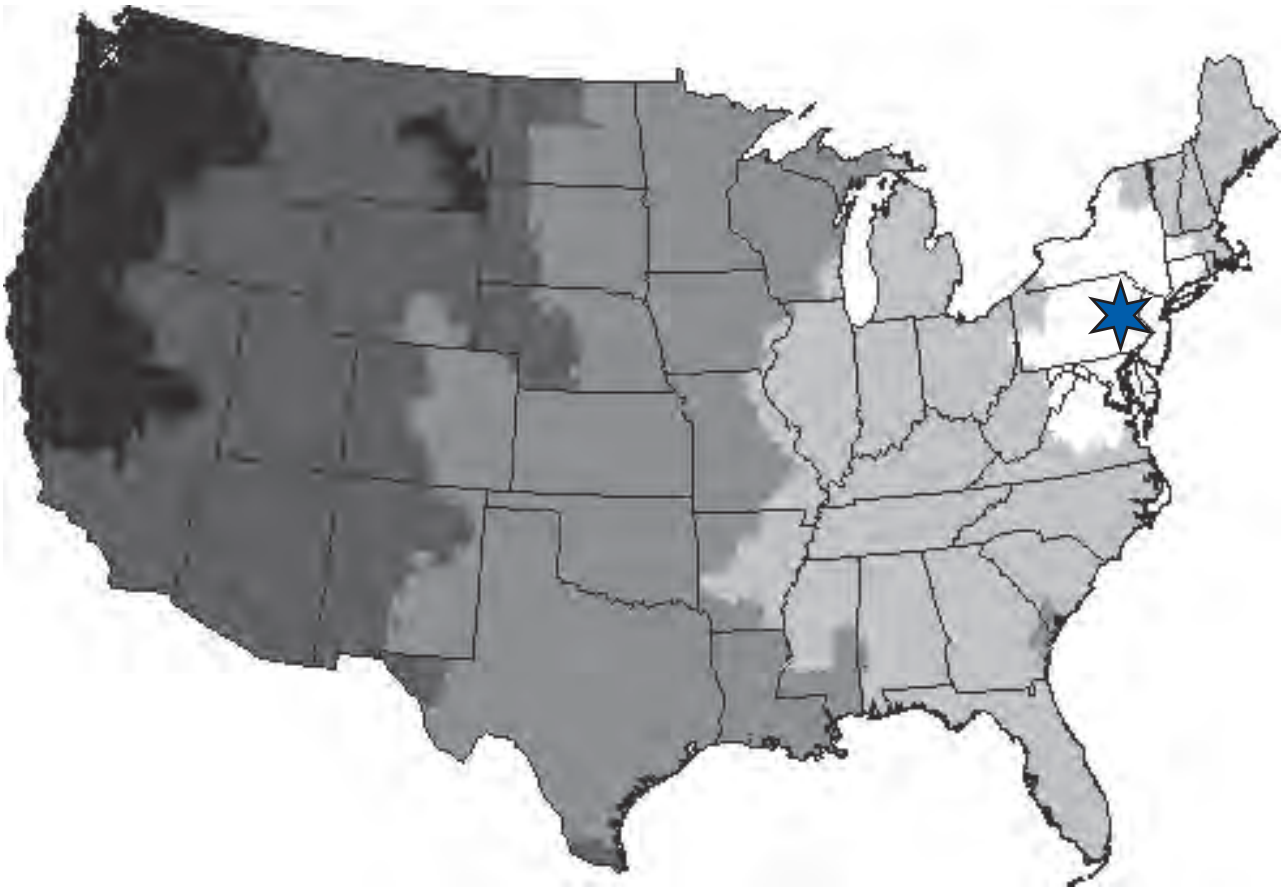
| | |
|---|---|
| $0 - $1,999: | Truck - 9% of Invoice / $100 Minimum |
| $2,000+: | Truck - Prepaid & Allowed |

## *Worm Gear Reducers*

| | |
|---|---|
| 1 - 3 Pieces: | UPS - Prepay & Add |
| 4 - 23 Pieces: | Truck - 9% of Invoice / $100 Minimum |
| 24+ Pieces or $2,000: (Whichever Comes First) | Truck - Prepaid & Allowed |

Orders may be picked up from any of our warehouses as a will call.
We would prefer a one-hour advance notification for orders to be picked up.
However, allowances will be made for special rush and urgent situations.

# WORLDWIDE ELECTRIC CORPORATION
# WAREHOUSE DELIVERY MAPS
## *Allentown, PA*



Origin

Next Day

2 Days

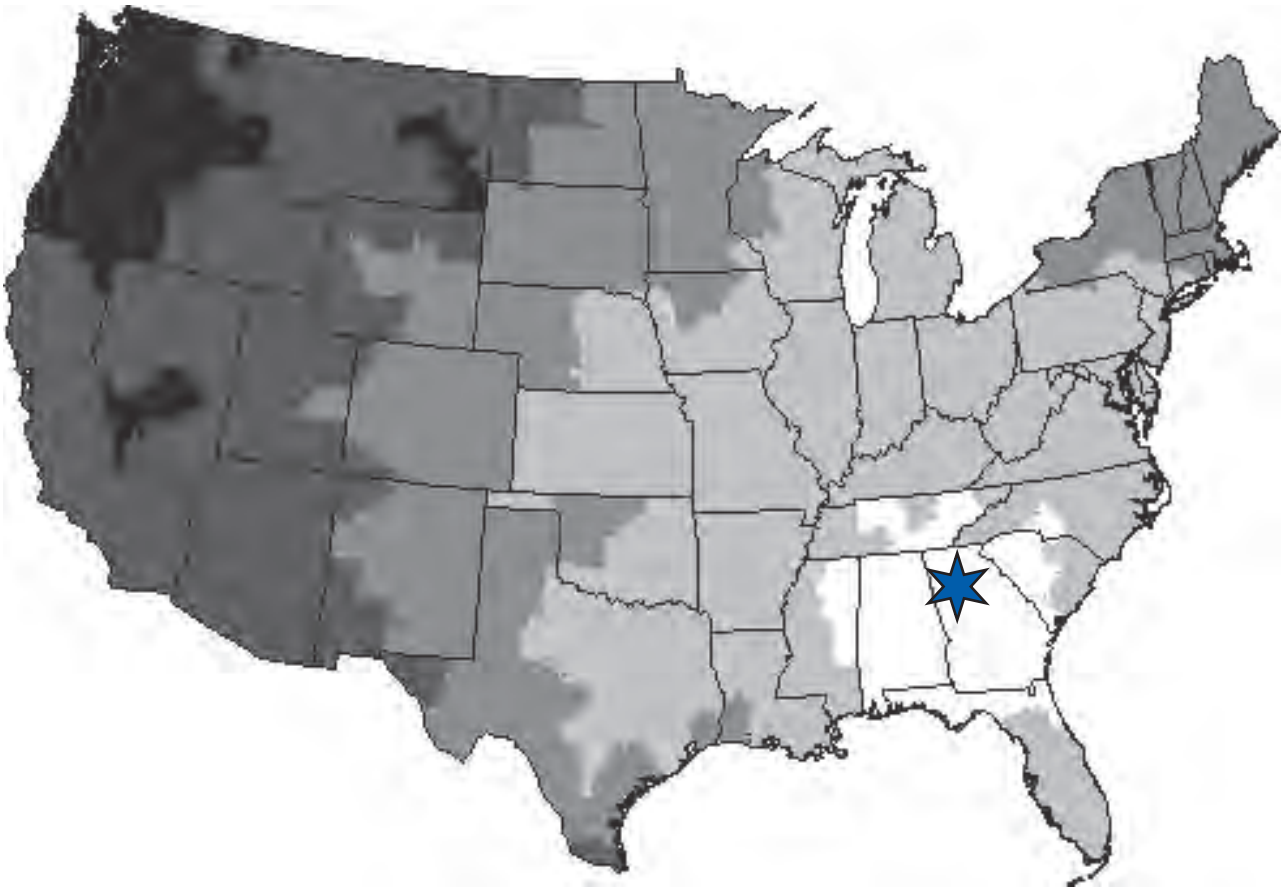
3 Days

4 Days

5+ Days

# WORLDWIDE ELECTRIC CORPORATION
# WAREHOUSE DELIVERY MAPS
## *Atlanta, GA*





Origin

Next Day

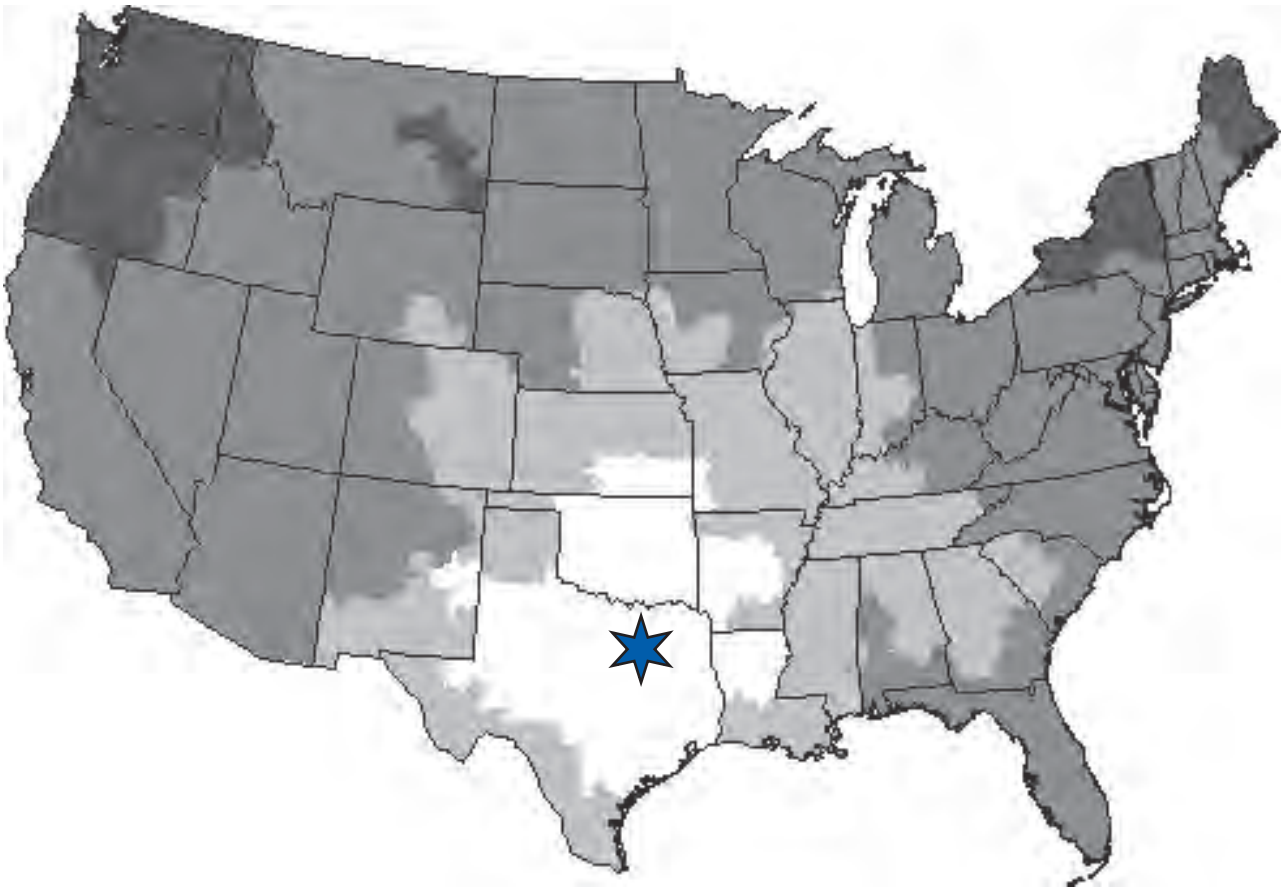
2 Days

3 Days

4 Days

5+ Days

# WORLDWIDE ELECTRIC CORPORATION
# WAREHOUSE DELIVERY MAPS
## *Dallas, TX*



Origin

Next Day

2 Days

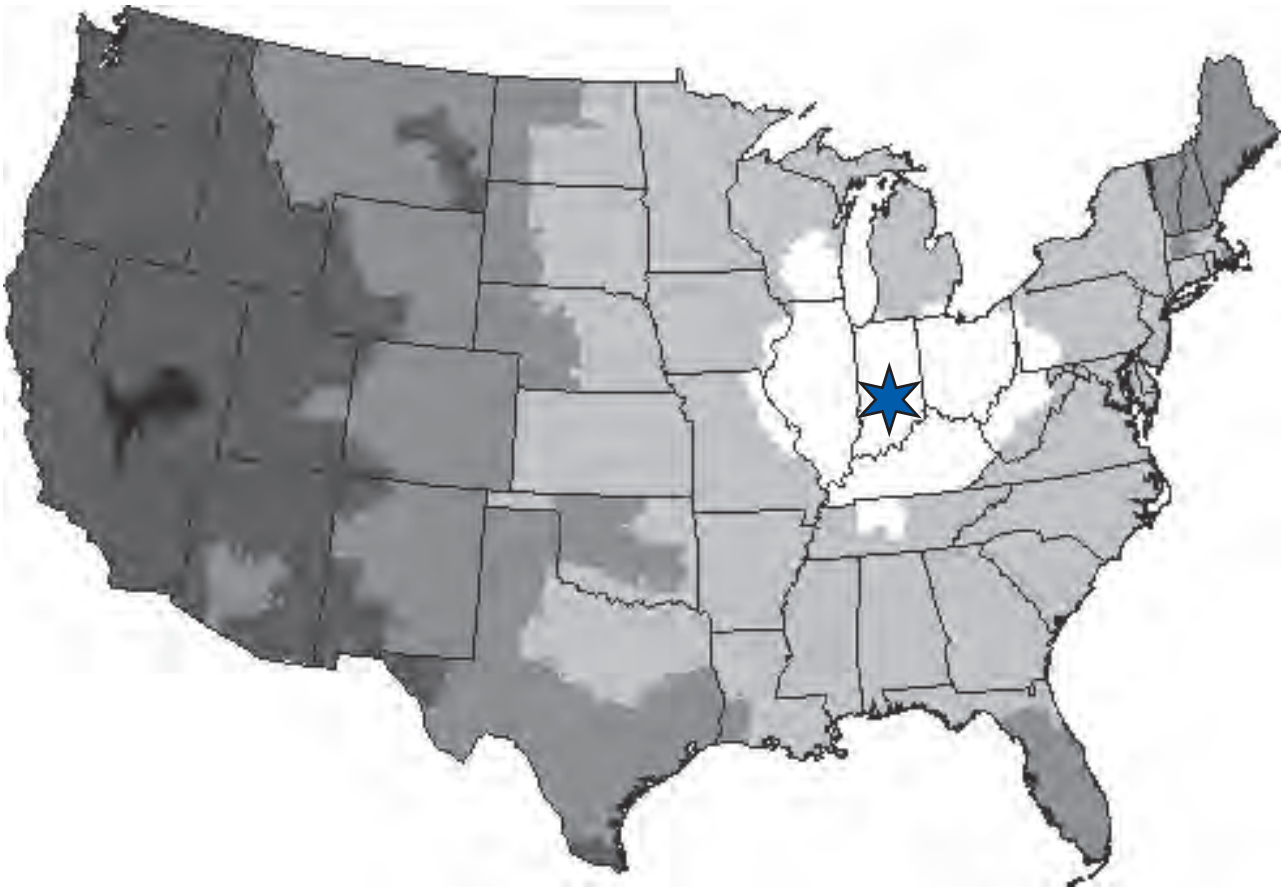
3 Days

4 Days

5+ Days

# WORLDWIDE ELECTRIC CORPORATION
# WAREHOUSE DELIVERY MAPS
## *Indianapolis (Plainfield), IN*





Origin

Next Day

2 Days

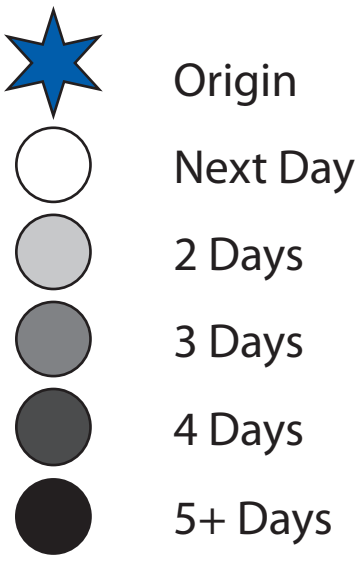
3 Days

4 Days

5+ Days

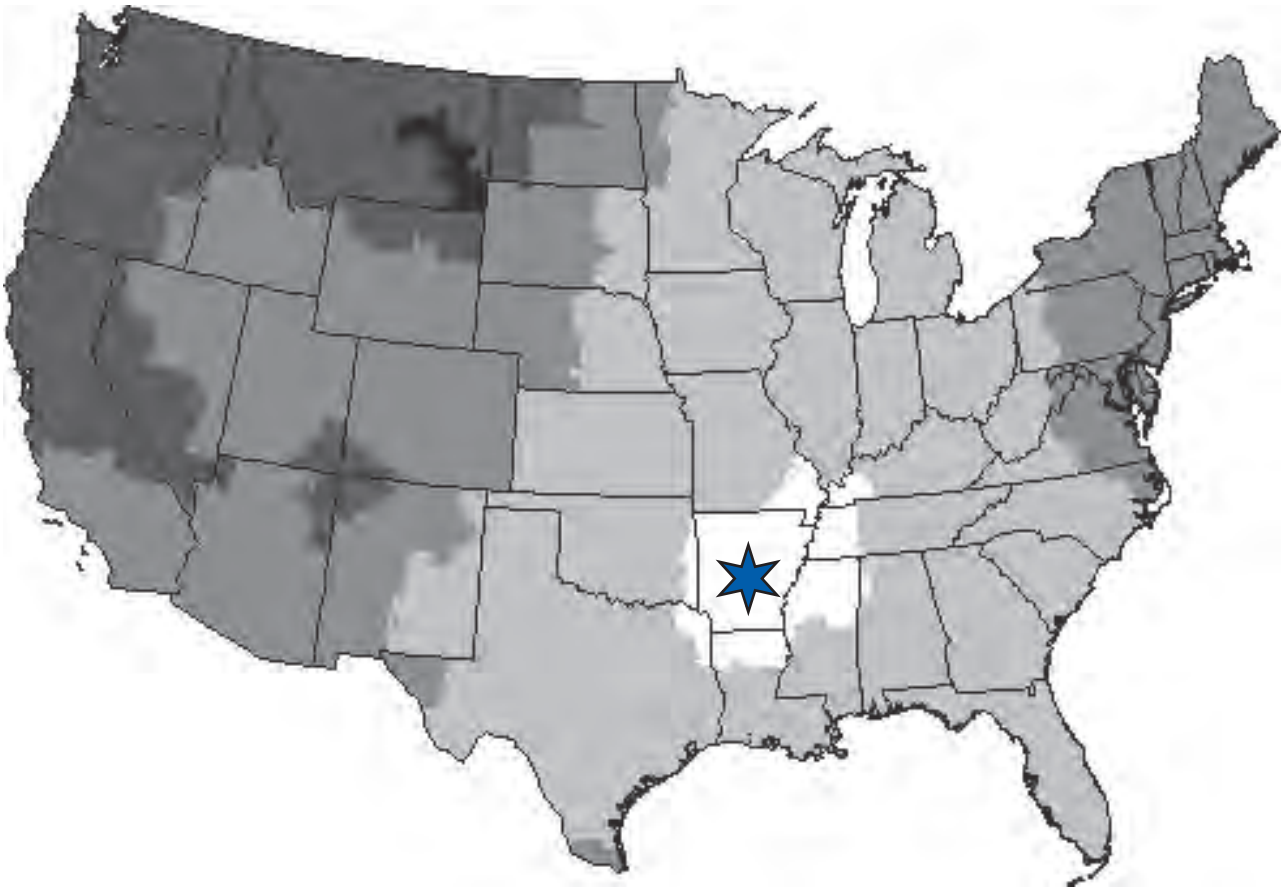
# WORLDWIDE ELECTRIC CORPORATION
# WAREHOUSE DELIVERY MAPS
## *Kansas City (Lenexa), KS*





# WORLDWIDE ELECTRIC CORPORATION
# WAREHOUSE DELIVERY MAPS
## *Little Rock (Jacksonville), AR*





Origin

Next Day

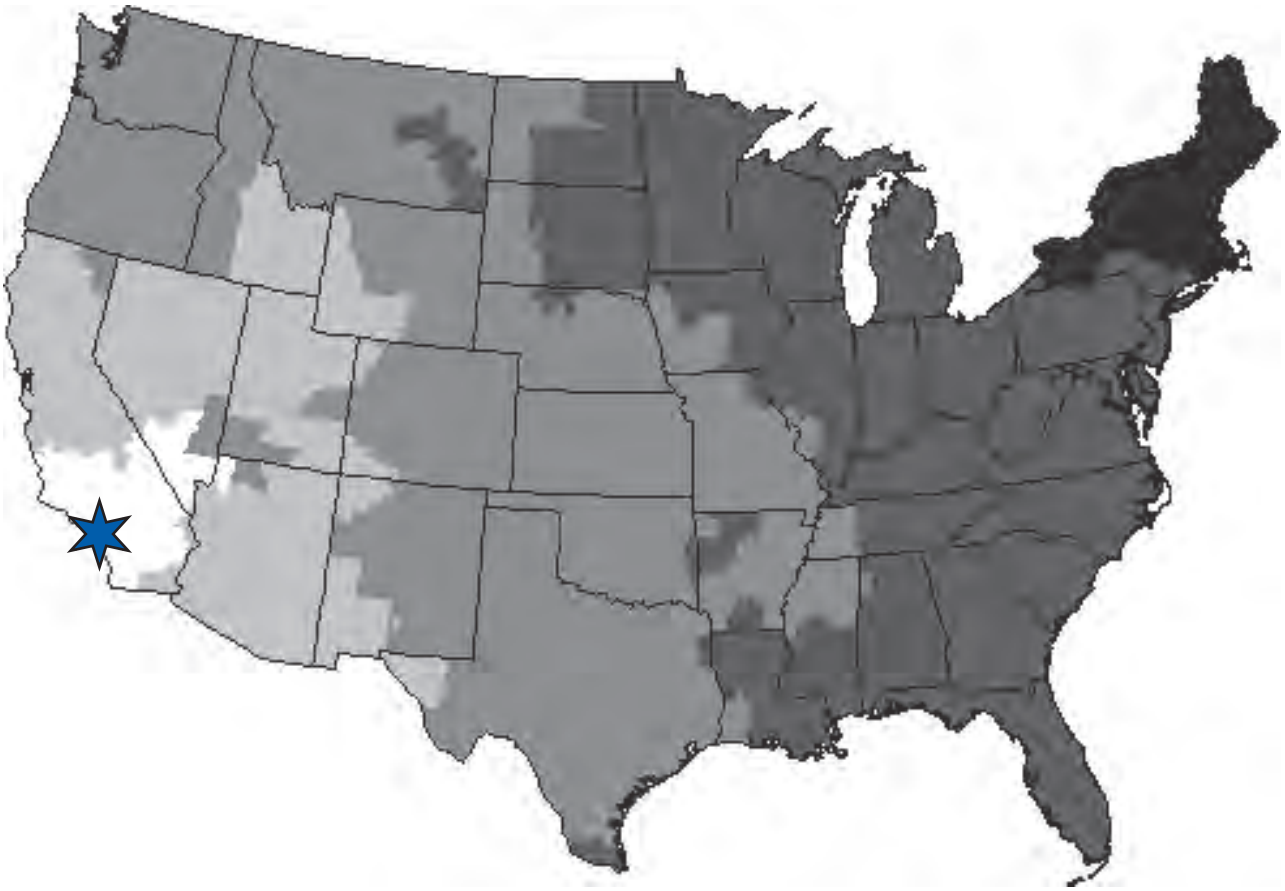
2 Days

3 Days

4 Days

5+ Days

# WORLDWIDE ELECTRIC CORPORATION
# WAREHOUSE DELIVERY MAPS
## *Los Angeles (Ontario), CA*



Origin

Next Day

2 Days

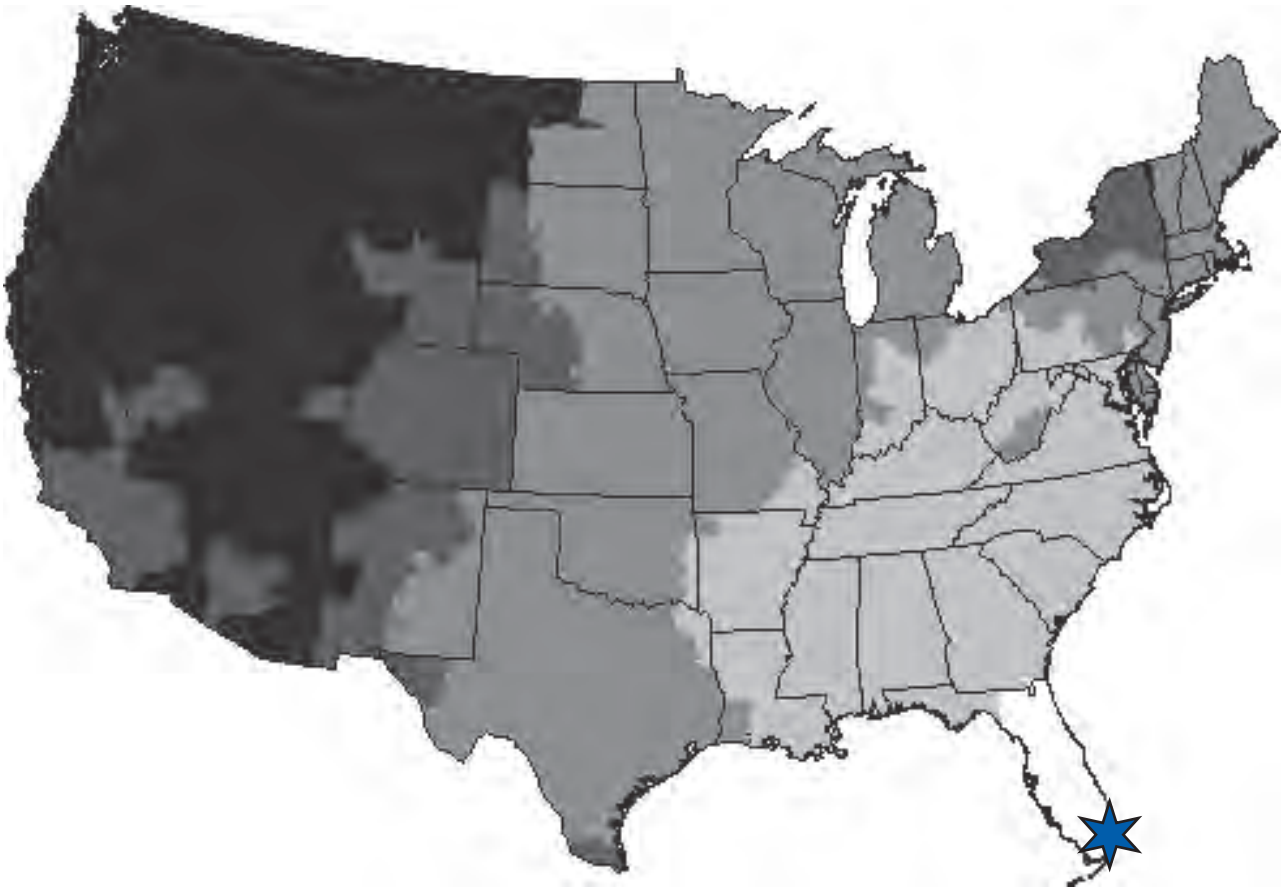
3 Days

4 Days

5+ Days

# WORLDWIDE ELECTRIC CORPORATION
# WAREHOUSE DELIVERY MAPS
## *Miami, FL*





Origin

Next Day

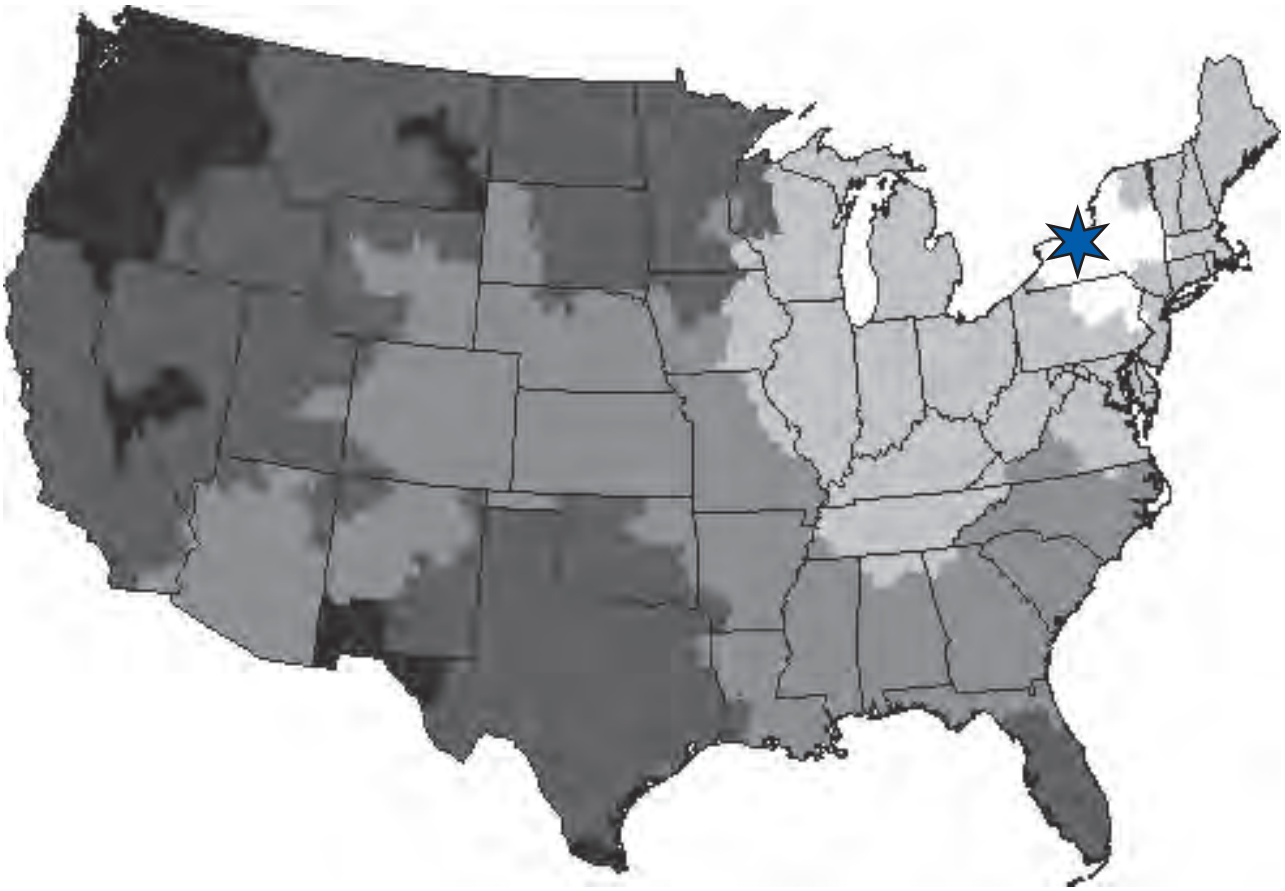
2 Days

3 Days

4 Days

5+ Days

# WORLDWIDE ELECTRIC CORPORATION
# WAREHOUSE DELIVERY MAPS
## *Rochester, NY*



Origin

Next Day

2 Days

3 Days

4 Days

5+ Days

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# WORLDWIDE ELECTRIC CORPORATION

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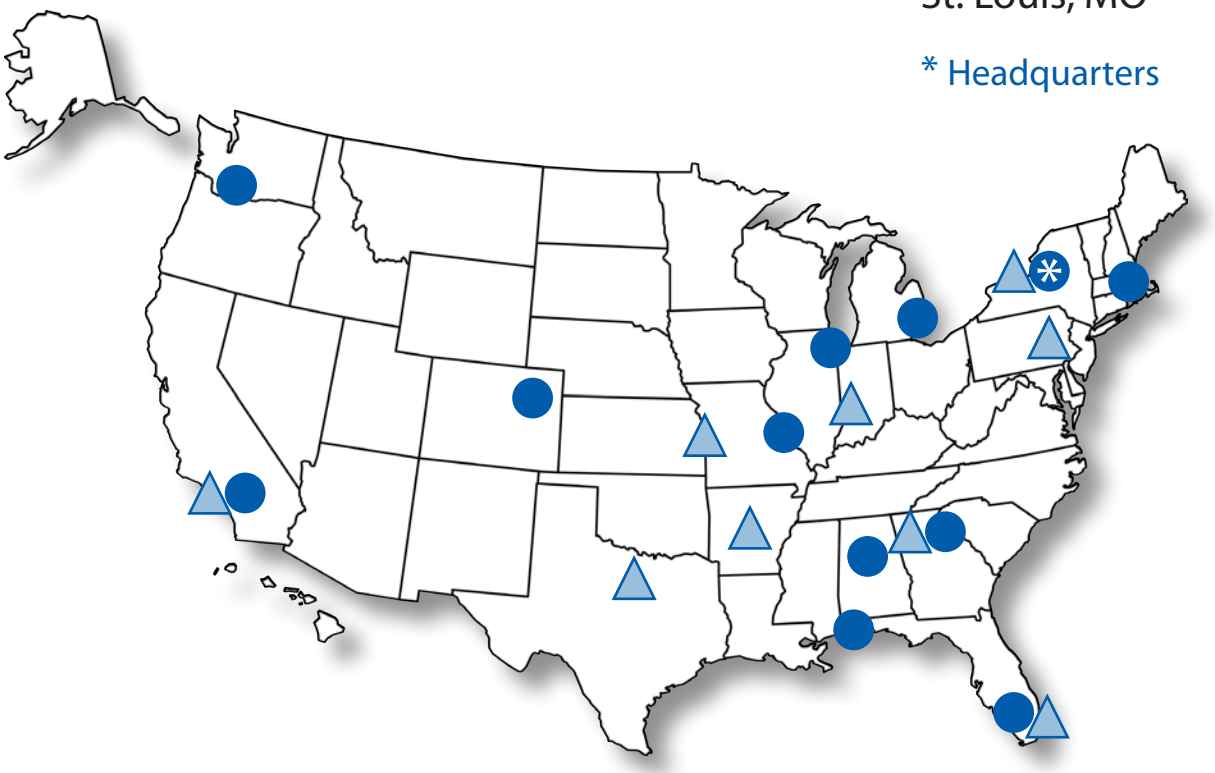
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