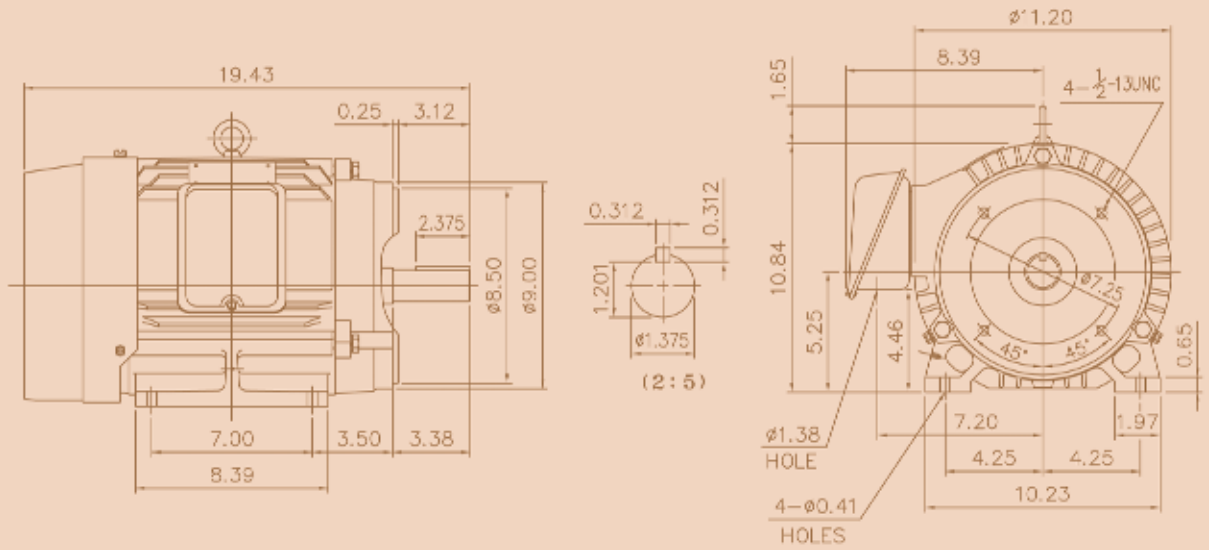
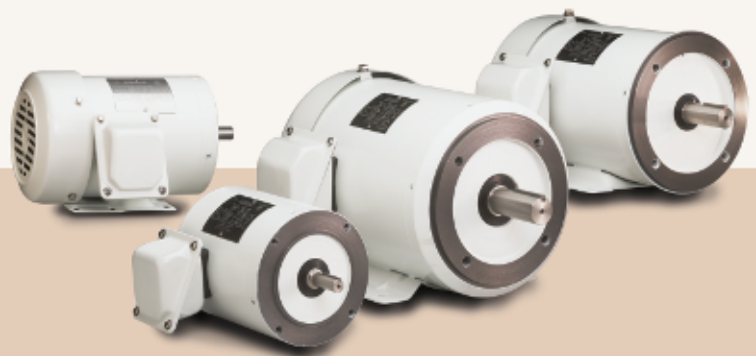
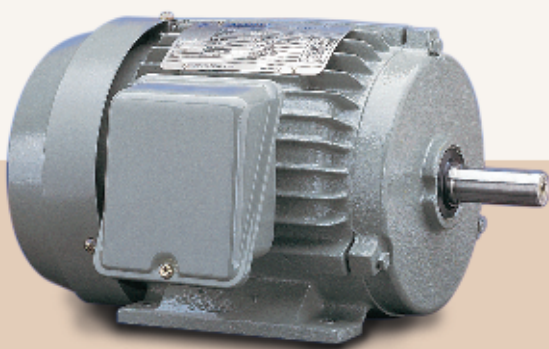
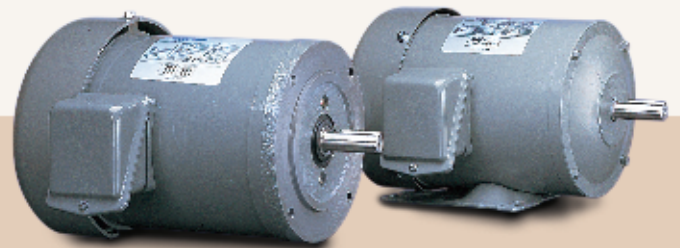
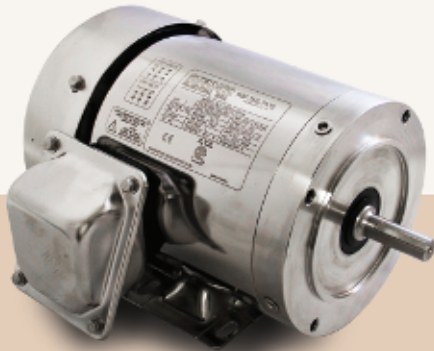


STERLING ELECTRIC, INC.



STOCK ELECTRICAL PRODUCTS SPECIFICATIONS AND PRICING



Standard Steel Frame and Cast Iron Motors



Our standard Rolled Steel and Cast Iron Frame motors provide superior quality and unique designs features compared to competing brands in the marketplace. We provide a full product offering in Cast Iron construction from 56 through 447TZ Frame designs to meet the harsh application requirements found in today's industry.

Our standard product provides the following outstanding features:

- 3 Phase, 60 Hz., 230/460 Volt or 575 Volt
- CE, CSA and CSE Approved
- Stainless Steel Nameplate
- Cast Iron End Brackets on Rolled Steel or Cast Iron Frames
- Diagonally Split Conduit Box

Sterli-Seal® Smooth Body Washdown Steel Frame Motors



Our Sterli-Seal Washdown products are designed to withstand the challenges of today's Process Industry where high-pressure washing is required for sanitary requirements.

This product provides a Smooth Rolled Steel Constructed Frame to eliminate buildup of material and to allow ease in cleanup in a sanitary application.

Sterli-Seal Smooth Body Washdown Motors offer the following outstanding features:

- 3 Phase, 60 Hz., 208-230/460 Volt or 575 Volt
- CE, CSA and CSE Approved
- Stainless Steel Etched Nameplate
- 50 Hz. Ratings available – refer to factory for details
- Class F Insulation with a 1.15 Service Factor
- Inverter Rated per NEMA MG1-Part 31.4.4.2
- Cast Iron End Brackets with drain holes in four quadrants
- Smooth Body Steel Frame
- Diagonally Split and Gasketed Stamped Steel Conduit Box Rotatable in 90 degree increments
- Pre-lubricated (Sealed) oversized bearings
- Internally locked drive end bearing
- Lip seals on drive end and opposite drive end brackets
- Base mounted units designed with six mounting holes to provide flexibility for mounting of NEMA 56, 140, 180 and 210 frame sizes

Sterli-Seal® ALL Stainless Steel INVERTER RATED Motors



Our Steri-Seal® Stainless Steel motors are designed to provide superior performance in sanitary applications.

Our STANDARD product provides the following outstanding features:

- 3 Phase, 60 Hz., 208-230/460 Volt or 575 Volt
- CE, CSA and CSE Approved
- Etched Nameplate
- 50 Hz. Ratings available – refer to factory for details
- Class F Insulation with a 1.15 Service Factor
- Inverter Rated per NEMA MG1-Part 31.4.4.2
- Cast 304 Stainless Steel End Brackets with drain holes in four quadrants
- 304 Stainless Steel Frame
- Diagonally Split and Gasketed 304 Stainless Steel Conduit Box Rotatable in 90 degree increments
- Pre-lubricated (Sealed) oversized bearings
- Internally locked drive end bearing
- Lip seals on drive end and opposite drive end brackets
- Base mounted units designed with six mounting holes to provide flexibility for mounting of NEMA 56, 140, 180 and 210 frame sizes

Sterling Electric produces a full range of electric motors to meet the most demanding applications found in today's industry. From standard duty applications to the harsh environments of the chemical industry or the washdown requirements of the food processing industry, Sterling Electric has the solution.

This New Stock Product Catalog provides a full selection of motors that meet the EISA 2007 (Energy Independence & Security Act) requirements that go into effect with motors produced after December 19, 2010. Off-the-shelf motors produced prior to this date can be sold until inventories are depleted.

EISA 2007 requires that all motors previously covered under the original Energy Policy Act of 1992 (EPAAct) must meet the NEMA Premium Efficient efficiencies as defined by NEMA MG1, Table 12-12. EISA also expands the mandated energy efficiency standards to cover motor designs that were originally exempt from regulation. Motors that were exempt and are now included in EISA 2007 would be:

- U-Frame motors
- NEMA Design "C" High Starting Torque Motors
- 8-Pole (900) Rpm Motors
- JM and JP Close-coupled pump motors
- Footless motors
- Vertical solid shaft normal thrust motor (as tested in a horizontal configuration)
- A poly-phase motor with voltage of not more than 600 volts (other than 230 or 460 volts (or 575V for Canada))
- Fire pump motors 1-200HP
- 201-500 horsepower motors not previously covered by EPAAct

All of the referenced motors must comply with Energy Efficient efficiencies as defined by NEMA MG1, Table 12-11.

Motors that are not covered by EISA would be:

- NEMA Design "D" high slip motors
- Adjustable speed inverter duty motors with optimized windings for use on Variable Frequency Drives
- Customized OEM mounting or specialized mechanical construction
- Intermittent duty
- Integral gear motors and brake motors where motor and gear box or motors and brake are inseparable
- Submersible motors
- DC motors
- Two-digit frames (48-56)
- Multi-speed motors
- Motors greater than 600 volt
- TENV and TEAO enclosures

For further information regarding EISA, please refer to Title 10 of the Code of Federal Regulations Part 431 (10 CFR Part 431) which is available at www.gpoaccess.gov

All of the new requirements, pertaining to energy regulations, will improve our dependence on oil and other natural resources and allow us energy savings in the future. As we move forward, additional changes will occur with motors that will be required to meet EPAAct regulations or are exempt from EISA 2007 as outline above.

Sterling Electric will continue to improve our products to meet or exceed the energy laws and insure our customers the highest quality and energy cost savings in the years ahead.

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Complete Product Specifications with Data Sheet, 3D (Step File), AutoCad or PDF File can be obtained from www.sterlingelectric.com

Our Website, also includes the capability to select product online to obtain a model number that meets your requirements.

Product Specifications

Steel Frame Motors

Certifications:
Insulation:
Service Factor:
Main Frame:
End Brackets:
Conduit Box:

Fan Guard:

Shaft:

Sterli-Seal Washdown Duty

Bearings:

Sterli-Seal Washdown Duty

CE, CSA (US/Canada), EE
Class F, Inverter Rated per NEMA MG1-Part31.4.4.2
1.15
Rolled Steel (Smooth Body)
Cast Iron
Stamped Steel. Diagonally Split Rotatable in 90 °
Increments
Stamped Steel
Keyed Carbon Steel
Keyed 304 Stainless Steel
Prelubricated Double Shielded Ball Bearings
Prelubricated Sealed Ball Bearings



Stainless Steel Frame Motors

Certifications:
Insulation:
Service Factor:
Main Frame:
End Brackets:
Conduit Box:

Fan Guard:

Shaft:

Bearings:

CE, CSA (US/Canada), EE
Class F, Inverter Rated per NEMA MG1-Part31.4.4.2
1.15
304 Stainless Steel (Smooth Body)
304 Cast Stainless Steel
304 Stainless Steel. Diagonally Split Rotatable in 90 °
Increments
304 Stainless Steel
Keyed 304 Stainless Steel
Prelubricated Sealed Ball Bearings



Cast Iron Frame Motor

Certifications:
Insulation:
Service Factor:
Main Frame:
End Brackets:
Conduit Box:

Fan Guard:

Shaft:

Sterli-Seal Washdown Duty

Bearings:

Sterli-Seal Washdown Duty

CE, CSA (US/Canada), EE
Class F
1.15
Cast Iron (Ribbed Frame)
Cast Iron
Stamped Steel. Diagonally Split Rotatable in 90 °
Increments
Stamped Steel
Keyed Carbon Steel
Keyed 304 Stainless Steel
Prelubricated Double Shielded Ball Bearings
Prelubricated Sealed Ball Bearings





**Open Dripproof Enclosure
Three Phase Motors – EAct Efficient Rated
60Hz. – 230/460 Volt**

These Models to become Obsolete upon Depletion of Inventory

| HP | RPM | Frame | Eff. % | Model Number | List Price |
|-----|------|-------|--------|--------------|------------|
| 1 | 1800 | 143T | 82.5 | EW0014DFA | \$ 408 |
| | 1200 | 145T | 80.0 | EW0016DFA | \$ 532 |
| 1.5 | 3600 | 143T | 82.5 | EWY152DFA | \$ 442 |
| | 1800 | 145T | 84.0 | EWY154DFA | \$ 462 |
| | 1200 | 182T | 84.0 | EWY156DFA | \$ 596 |
| 2 | 3600 | 145T | 84.0 | EW0022DFA | \$ 528 |
| | 1800 | 145T | 84.0 | EW0024DFA | \$ 502 |
| | 1200 | 184T | 85.5 | EW0026DFA | \$ 602 |
| 3 | 3600 | 145T | 84.0 | EW0032DFA | \$ 588 |
| | 1800 | 182T | 86.5 | EW0034DFA | \$ 532 |
| | 1200 | 213T | 86.5 | EW0036DFA | \$ 820 |
| 5 | 3600 | 182T | 85.5 | EW0052DFA | \$ 668 |
| | 1800 | 184T | 87.5 | EW0054DFA | \$ 596 |
| | 1200 | 215T | 87.5 | EW0056DFA | \$ 1064 |
| 7.5 | 3600 | 184T | 87.5 | EWY752DFA | \$ 884 |
| | 1800 | 213T | 88.5 | EWY754DFA | \$ 874 |
| | 1200 | 254T | 88.5 | EWY756DFA | \$ 1458 |
| 10 | 3600 | 213T | 88.5 | EW0102DFA | \$ 1072 |
| | 1800 | 215T | 89.5 | EW0104DFA | \$ 1086 |
| | 1200 | 256T | 90.2 | EW0106DFA | \$ 1762 |
| 15 | 3600 | 215T | 89.5 | EW0152DFA | \$ 1432 |
| | 1800 | 254T | 91.0 | EW0154DFA | \$ 1450 |
| | 1200 | 284T | 90.2 | EW0156DFA | \$ 2306 |
| 20 | 3600 | 254T | 90.2 | EW0202DFA | \$ 1762 |
| | 1800 | 256T | 91.0 | EW0204DFA | \$ 1780 |
| | 1200 | 286T | 91.0 | EW0206DFA | \$ 2894 |
| 25 | 3600 | 256T | 91.0 | EW0252DFA | \$ 2156 |
| | 1800 | 284T | 91.7 | EW0254DFA | \$ 2148 |
| | 1200 | 324T | 91.7 | EW0256DFA | \$ 3566 |
| 30 | 3600 | 284TS | 91.0 | EW0302DFA | \$ 2564 |
| | 1800 | 286T | 92.4 | EW0304DFA | \$ 2512 |
| | 1200 | 326T | 92.4 | EW0306DFA | \$ 4142 |
| 40 | 3600 | 286TS | 91.7 | EW0402DFA | \$ 3414 |
| | 1800 | 324T | 93.0 | EW0404DFA | \$ 3180 |
| | 1200 | 364T | 93.0 | EW0406DFA | \$ 4916 |
| 50 | 3600 | 324TS | 92.4 | EW0502DFA | \$ 4260 |
| | 1800 | 326T | 93.0 | EW0504DFA | \$ 3830 |
| | 1200 | 365T | 93.0 | EW0506DFA | \$ 6698 |
| 60 | 3600 | 326TS | 93.0 | EW0602DFA | \$ 4832 |
| | 1800 | 364T | 93.6 | EW0604DFA | \$ 4634 |
| | 1200 | 404T | 93.6 | EW0606DFA | \$ 8184 |
| 75 | 3600 | 364TS | 93.0 | EW0752DFA | \$ 6576 |
| | 1800 | 365T | 94.1 | EW0754DFA | \$ 5708 |
| | 1200 | 405T | 93.6 | EW0756DFA | \$ 9274 |
| 100 | 3600 | 365TS | 93.0 | EW1002DFA | \$ 8472 |
| | 1800 | 404T | 94.1 | EW1004DFA | \$ 7502 |
| | 1200 | 444T | 94.1 | EW1006DFA | \$ 11856 |

Shaded Models Cast Iron Construction



**Open Dripproof Enclosure
Three Phase Motors – EISA 2007 Premium
Efficient Rated
60Hz. – 230/460 Volt**

| HP | RPM | Frame | Eff. % | Model Number | List Price |
|-----|------|-------|--------|--------------|------------|
| 1 | 1800 | 143T | 84.0 | JH0014DFA | \$ 530 |
| | 1200 | 145T | 81.5 | JH0016DFA | \$ 622 |
| 1.5 | 3600 | 143T | 82.5 | JHY152DFA | \$ 522 |
| | 1800 | 145T | 85.5 | JHY154DFA | \$ 552 |
| | 1200 | 182T | 85.5 | JHY156DFA | \$ 728 |
| 2 | 3600 | 145T | 84.0 | JH0022DFA | \$ 612 |
| | 1800 | 145T | 86.5 | JH0024DFA | \$ 626 |
| | 1200 | 184T | 86.5 | EH0026DFA | \$ 758 |
| 3 | 3600 | 145T | 85.5 | EH0032DFA | \$ 722 |
| | 1800 | 182T | 87.5 | EH0034DFA | \$ 640 |
| | 1200 | 213T | 88.5 | EH0036DFA | \$ 1062 |
| 5 | 3600 | 182T | 88.5 | EH0052DFA | \$ 850 |
| | 1800 | 184T | 88.5 | EH0054DFA | \$ 766 |
| | 1200 | 215T | 89.5 | EH0056DFA | \$ 1414 |
| 7.5 | 3600 | 184T | 88.5 | EHY752DFA | \$ 1080 |
| | 1800 | 213T | 90.2 | EHY754DFA | \$ 1128 |
| | 1200 | 254T | 91.7 | EHY756DFA | \$ 1692 |
| 10 | 3600 | 213T | 89.5 | EH0102DFA | \$ 1342 |
| | 1800 | 215T | 90.2 | EH0104DFA | \$ 1252 |
| | 1200 | 256T | 91.7 | EH0106DFA | \$ 2084 |
| 15 | 3600 | 215T | 90.2 | EH0152DFA | \$ 1756 |
| | 1800 | 254T | 92.4 | EH0154DFA | \$ 1776 |
| | 1200 | 284T | 92.4 | EH0156DFA | \$ 2724 |
| 20 | 3600 | 254T | 91.0 | EH0202DFA | \$ 2064 |
| | 1800 | 256T | 93.0 | EH0204DFA | \$ 2232 |
| | 1200 | 286T | 92.4 | EH0206DFA | \$ 3432 |
| 25 | 3600 | 256T | 91.7 | EH0252DFA | \$ 2478 |
| | 1800 | 284T | 93.0 | EH0254DFA | \$ 2722 |
| | 1200 | 324T | 92.4 | EH0256DFA | \$ 4412 |
| 30 | 3600 | 284TS | 92.4 | EH0302DFA | \$ 2924 |
| | 1800 | 286T | 93.6 | EH0304DFA | \$ 2976 |
| | 1200 | 326T | 93.0 | EH0306DFA | \$ 4746 |
| 40 | 3600 | 286TS | 92.4 | EH0402DFA | \$ 4080 |
| | 1800 | 324T | 94.1 | EH0404DFA | \$ 3886 |
| | 1200 | 364T | 94.1 | EH0406DFA | \$ 6586 |
| 50 | 3600 | 324TS | 93.6 | EH0502DFA | \$ 4920 |
| | 1800 | 326T | 94.1 | EH0504DFA | \$ 4288 |
| | 1200 | 365T | 94.1 | EH0506DFA | \$ 5572 |
| 60 | 3600 | 326TS | 94.1 | EH0602DFA | \$ 5902 |
| | 1800 | 364T | 94.5 | EH0604DFA | \$ 5400 |
| | 1200 | 404T | 95.0 | EH0606DFA | \$ 9602 |
| 75 | 3600 | 364TS | 94.1 | EH0752DFA | \$ 8172 |
| | 1800 | 365T | 95.0 | EH0754DFA | \$ 6636 |
| | 1200 | 405T | 94.5 | EH0756DFA | \$ 10692 |
| 100 | 3600 | 365TS | 95.0 | EH1002DFA | \$ 8652 |
| | 1800 | 404T | 95.0 | EH1004DFA | \$ 8102 |
| | 1200 | 444T | 95.4 | EH1006DFA | \$ 12804 |

Shaded Models Cast Iron Construction



**Totally Enclosed Fan Cooled
Three Phase Motors – EPAct Efficient Rated
60 Hz. – 230/460 Volt**

These Models to become Obsolete after Inventory is Depleted *
* Applicable to NEMA Frame 143T and Larger

| HP | RPM | Frame | Eff. % | Model Number | List Price |
|-----|------|-------|--------|--------------|------------|
| 1/3 | 1800 | 56 | 72.5 | NBY034FFA | \$ 376 |
| 1/2 | 3600 | 56 | 75.0 | NBY052FFA | \$ 328 |
| | 1800 | 56 | 74.0 | NBY054FFA | \$ 400 |
| 3/4 | 3600 | 56 | 76.5 | NBY072FFA | \$ 360 |
| | 1800 | 56 | 74.5 | NBY074FFA | \$ 426 |
| 1 | 3600 | 56 | 79.0 | NB0012FFA | \$ 416 |
| | 1800 | 56 | 77.5 | NB0014FFA | \$ 434 |
| | 1800 | 143T | 77.5 | DB0014FFA | \$ 456 |
| | 1800 | 143T | 82.5 | EW0014FFA | \$ 470 |
| | 1200 | 145T | 80.0 | EW0016FFA | \$ 576 |
| 1.5 | 3600 | 56 | 80.0 | NBY152FFA | \$ 484 |
| | 3600 | 143T | 82.5 | EWY152FFA | \$ 532 |
| | 1800 | 56 | 83.5 | NBY154FFA | \$ 478 |
| | 1800 | 145T | 84.0 | DBY154FFA | \$ 466 |
| | 1800 | 145T | 84.0 | EWY154FFA | \$ 528 |
| | 1200 | 182T | 85.5 | EWY156FFA | \$ 652 |
| 2 | 3600 | 56 | 82.5 | NB0022FFA | \$ 534 |
| | 3600 | 145T | 84.0 | EW0022FFA | \$ 576 |
| | 1800 | 56 | 78.0 | NB0024FFA | \$ 542 |
| | 1800 | 145T | 85.5 | DB0024FFA | \$ 491 |
| | 1800 | 145T | 84.0 | EW0024FFA | \$ 554 |
| | 1200 | 184T | 86.5 | EW0026FFA | \$ 720 |
| 3 | 3600 | 182T | 85.5 | EW0032FFA | \$ 652 |
| | 1800 | 182T | 87.5 | DB0034FFA | \$ 577 |
| | 1800 | 182T | 87.5 | EW0034FFA | \$ 668 |
| | 1200 | 213T | 87.5 | EW0036FFA | \$ 904 |
| 5 | 3600 | 184T | 87.5 | EW0052FFA | \$ 802 |
| | 1800 | 184T | 87.5 | DB0054FFA | \$ 665 |
| | 1800 | 184T | 87.5 | EW0054FFA | \$ 730 |
| | 1200 | 215T | 87.5 | EW0056FFA | \$1326 |
| 7.5 | 3600 | 213T | 88.5 | EWY752FFA | \$1086 |
| | 1800 | 213T | 89.5 | DBY754FFA | \$ 848 |
| | 1800 | 213T | 89.5 | EWY754FFA | \$ 962 |
| | 1200 | 254T | 89.5 | EWY756FFA | \$1862 |
| 10 | 3600 | 215T | 89.5 | EW0102FFA | \$1274 |
| | 1800 | 215T | 89.5 | DB0104FFA | \$1033 |
| | 1800 | 215T | 89.5 | EW0104FFA | \$1154 |
| | 1200 | 256T | 89.5 | EW0106FFA | \$2266 |
| 15 | 3600 | 254T | 90.2 | EW0152FFA | \$1766 |
| | 1800 | 254T | 91.0 | EW0154FFA | \$1730 |
| | 1200 | 284T | 90.2 | EW0156FFA | \$3084 |
| 20 | 3600 | 256T | 90.2 | EW0202FFA | \$2294 |
| | 1800 | 256T | 91.0 | EW0204FFA | \$2178 |
| | 1200 | 286T | 90.2 | EW0206FFA | \$3976 |
| 25 | 3600 | 284TS | 91.0 | EW0252FFA | \$2868 |
| | 1800 | 284T | 92.4 | EW0254FFA | \$2672 |
| | 1200 | 324T | 91.7 | EW0256FFA | \$4840 |
| 30 | 3600 | 286TS | 91.0 | EW0302FFA | \$3372 |
| | 1800 | 286T | 92.4 | EW0304FFA | \$3132 |
| | 1200 | 326T | 91.7 | EW0306FFA | \$5494 |

Shaded Models Cast Iron Construction



**Totally Enclosed Fan Cooled
Three Phase Motors – EISA 2007 PREMIUM
EFFICIENT Rated
60 Hz. – 230/460 Volt**

| HP | RPM | Frame | Eff. % | Model Number | List Price |
|-----|------|-------|--------|--------------|------------|
| 1 | 1800 | 143T | 85.5 | DH0014FFA | \$ 524 |
| | 1800 | 143T | 86.5 | JH0014FFA | \$ 558 |
| | 1200 | 145T | 82.5 | DH0016FFA | \$ 532 |
| | 1200 | 145T | 84.0 | JH0016FFA | \$ 616 |
| 1.5 | 3600 | 143T | 84.0 | DHY152FFA | \$ 520 |
| | 3600 | 143T | 85.5 | JHY152FFA | \$ 582 |
| | 1800 | 145T | 86.5 | DHY154FFA | \$ 536 |
| | 1800 | 145T | 87.5 | JHY154FFA | \$ 616 |
| | 1200 | 182T | 87.5 | DHY156FFA | \$ 652 |
| | 1200 | 182T | 87.5 | JHY156FFA | \$ 696 |
| 2 | 3600 | 145T | 85.5 | DH0022FFA | \$ 568 |
| | 3600 | 145T | 86.5 | JH0022FFA | \$ 656 |
| | 1800 | 145T | 86.5 | DH0024FFA | \$ 565 |
| | 1800 | 145T | 87.5 | JH0024FFA | \$ 660 |
| | 1200 | 184T | 88.5 | DH0026FFA | \$ 684 |
| | 1200 | 184T | 88.5 | JH0026FFA | \$ 770 |
| 3 | 3600 | 182T | 86.5 | DH0032FFA | \$ 630 |
| | 3600 | 182T | 88.5 | JH0032FFA | \$ 858 |
| | 1800 | 182T | 89.5 | DH0034FFA | \$ 664 |
| | 1800 | 182T | 90.2 | JH0034FFA | \$ 814 |
| | 1200 | 213T | 89.5 | DH0036FFA | \$ 904 |
| | 1200 | 213T | 89.5 | EH0036FFA | \$ 980 |
| 5 | 3600 | 184T | 88.5 | DH0052FFA | \$ 700 |
| | 3600 | 184T | 90.2 | JH0052FFA | \$1000 |
| | 1800 | 184T | 89.5 | DH0054FFA | \$ 765 |
| | 1800 | 184T | 90.2 | JH0054FFA | \$ 898 |
| | 1200 | 215T | 89.5 | DH0056FFA | \$1280 |
| | 1200 | 215T | 89.5 | EH0056FFA | \$1420 |
| 7.5 | 3600 | 213T | 89.5 | DHY752FFA | \$1048 |
| | 3600 | 213T | 90.2 | EHY752FFA | \$1258 |
| | 1800 | 213T | 91.7 | DHY754FFA | \$ 975 |
| | 1800 | 213T | 91.0 | EHY754FFA | \$1234 |
| | 1200 | 254T | 91.7 | EHY756FFA | \$1996 |
| 10 | 3600 | 215T | 90.7 | DH0102FFA | \$1064 |
| | 3600 | 215T | 91.7 | EH0102FFA | \$1574 |
| | 1800 | 215T | 91.7 | DH0104FFA | \$1188 |
| | 1800 | 215T | 91.7 | EH0104FFA | \$1470 |
| | 1200 | 256T | 91.7 | EH0106FFA | \$2428 |
| 15 | 3600 | 254T | 91.0 | EH0152FFA | \$2072 |
| | 1800 | 254T | 92.4 | EH0154FFA | \$2000 |
| | 1200 | 284T | 92.4 | EH0156FFA | \$3304 |
| 20 | 3600 | 256T | 91.0 | EH0202FFA | \$2656 |
| | 1800 | 256T | 93.0 | EH0204FFA | \$2526 |
| | 1200 | 286T | 92.4 | EH0206FFA | \$4260 |
| 25 | 3600 | 284TS | 91.7 | EH0252FFA | \$3286 |
| | 1800 | 284T | 93.6 | EH0254FFA | \$3080 |
| | 1200 | 324T | 93.0 | EH0256FFA | \$5186 |
| 30 | 3600 | 286TS | 92.4 | EH0302FFA | \$3984 |
| | 1800 | 286T | 93.6 | EH0304FFA | \$3720 |
| | 1200 | 326T | 93.0 | EH0306FFA | \$5888 |

Shaded Models Cast Iron Construction



**Totally Enclosed Fan Cooled
Three Phase Motors – EPAct Efficient Rated
60 Hz. – 230/460 Volt**

These Models to become Obsolete after Inventory is Depleted

| HP | RPM | Frame | Eff. % | Model Number | List Price |
|-----|------|-------|--------|--------------|------------|
| 40 | 3600 | 324TS | 91.7 | EW0402FFA | \$ 4528 |
| | 1800 | 324T | 93.0 | EW0404FFA | \$ 4190 |
| | 1200 | 364T | 93.0 | EW0406FFA | \$ 7880 |
| 50 | 3600 | 326TS | 92.4 | EW0502FFA | \$ 5494 |
| | 1800 | 326T | 93.0 | EW0504FFA | \$ 5438 |
| | 1200 | 365T | 93.0 | EW0506FFA | \$ 9106 |
| 60 | 3600 | 364TS | 93.0 | EW0602FFA | \$ 8152 |
| | 1800 | 364T | 93.6 | EW0604FFA | \$ 7424 |
| | 1200 | 404T | 93.6 | EW0606FFA | \$ 9894 |
| 75 | 3600 | 365TS | 93.0 | EW0752FFA | \$10838 |
| | 1800 | 365T | 94.1 | EW0754FFA | \$ 9036 |
| | 1200 | 405T | 93.6 | EW0756FFA | \$12438 |
| 100 | 3600 | 405TS | 93.6 | EW1002FFA | \$13170 |
| | 1800 | 405T | 94.5 | EW1004FFA | \$11916 |
| | 1200 | 444T | 94.1 | EW1006FFA | \$17072 |
| 125 | 3600 | 444TS | 94.5 | EW1252FFI | \$18258 |
| | 1800 | 444T | 94.5 | EW1254FFI | \$16154 |
| | 1200 | 445T | 94.1 | EW1256FFI | \$21858 |
| 150 | 3600 | 445TS | 94.5 | EW1502FFI | \$22158 |
| | 1800 | 445T | 95.0 | EW1504FFI | \$21800 |
| | 1200 | 447TZ | 95.0 | EW1506FFI | \$24354 |
| 200 | 3600 | 447TS | 95.0 | EW2002FFB | \$25854 |
| | 1800 | 447TZ | 95.0 | EW2004FFB | \$23634 |
| | 1200 | 449TZ | 95.0 | EW2006FFB | \$34588 |

Shaded Models Cast Iron Construction

**Totally Enclosed Fan Cooled
Three Phase Motors – EISA 2007 PREMIUM
EFFICIENT Rated
60 Hz. – 230/460 Volt**

| HP | RPM | Frame | Eff. % | Model Number | List Price |
|-----|------|-------|--------|--------------|------------|
| 40 | 3600 | 324TS | 93.0 | EH0402FFA | \$ 5282 |
| | 1800 | 324T | 95.0 | EH0404FFA | \$ 4950 |
| | 1200 | 364T | 94.5 | EH0406FFA | \$ 8444 |
| 50 | 3600 | 326TS | 93.6 | EH0502FFA | \$ 7072 |
| | 1800 | 326T | 95.0 | EH0504FFA | \$ 6372 |
| | 1200 | 365T | 94.5 | EH0506FFA | \$ 9758 |
| 60 | 3600 | 364TS | 94.1 | EH0602FFA | \$ 8852 |
| | 1800 | 364T | 95.0 | EH0604FFA | \$ 8708 |
| | 1200 | 404T | 95.0 | EH0606FFA | \$10802 |
| 75 | 3600 | 365TS | 94.5 | EH0752FFA | \$11272 |
| | 1800 | 365T | 95.0 | EH0754FFA | \$10392 |
| | 1200 | 405T | 95.0 | EH0756FFA | \$13578 |
| 100 | 3600 | 405TS | 94.5 | EH1002FFA | \$16500 |
| | 1800 | 405T | 95.0 | EH1004FFA | \$12876 |
| | 1200 | 444T | 95.0 | EH1006FFA | \$18640 |
| 125 | 3600 | 444TS | 94.5 | EH1252FFI | \$19262 |
| | 1800 | 444T | 95.8 | EH1254FFI | \$17636 |
| | 1200 | 445T | 95.4 | EH1256FFI | \$22950 |
| 150 | 3600 | 445TS | 94.5 | EH1502FFI | \$23642 |
| | 1800 | 445T | 95.8 | EH1504FFI | \$22672 |
| | 1200 | 447TZ | 95.8 | EH1506FFI | \$26590 |
| 200 | 3600 | 447TS | 95.0 | EH2002FFB | \$29620 |
| | 1800 | 447TZ | 96.2 | EH2004FFB | \$24858 |

Shaded Models Cast Iron Construction



**Totally Enclosed Fan Cooled
Three Phase Motors – EPAct Efficient Rated
C-Face Foot Mounted
60 Hz. – 230/460 Volt**

These Models to become Obsolete after Inventory is Depleted *
* Applicable to NEMA Frame 143T and Larger

| HP | RPM | Frame | Eff. % | Model Number | List Price | |
|------|-------|-------|-----------|--------------|------------|--------|
| 1/2 | 3600 | 56C | 73.0 | NBY052NHA | \$ 364 | |
| | 3600 | 56C | 75.0 | RBY052FHA | \$ 424 | |
| | 1800 | 56C | 78.0 | NBY054NHA | \$ 428 | |
| | 1800 | 56C | 75.0 | RBY054FHA | \$ 482 | |
| | 1200 | 56C | 74.0 | RBY056FHA | \$ 650 | |
| 3/4 | 3600 | 56C | 75.0 | NBY072NHA | \$ 394 | |
| | 3600 | 56C | 76.5 | RBY072FHA | \$ 462 | |
| | 1800 | 56C | 81.0 | NBY074NHA | \$ 454 | |
| | 1800 | 56C | 76.0 | RBY074FHA | \$ 524 | |
| | 1200 | 56C | 75.0 | RBY076FHA | \$ 682 | |
| 1 | 3600 | 56C | 71.0 | NB0012FHA | \$ 464 | |
| | 3600 | 56C | 71.0 | RB0012FHA | \$ 488 | |
| | 1800 | 56C | 81.0 | NB0014FHA | \$ 484 | |
| | 1800 | 56C | 78.0 | RB0014FHA | \$ 570 | |
| | 1800 | 143TC | 82.5 | DB0014FHA | \$ 540 | |
| | 1800 | 143TC | 82.5 | EW0014FHA | \$ 668 | |
| | 1200 | 56C | 75.0 | RB0016FHA | \$ 756 | |
| | 1.5 | 3600 | 56C | 84.0 | NBY152FHA | \$ 494 |
| | | 3600 | 56C | 74.0 | RBY152FHA | \$ 516 |
| 3600 | | 143TC | 82.5 | DBY152FHA | \$ 566 | |
| 3600 | | 143TC | 82.5 | EWY152FHA | \$ 724 | |
| 1800 | | 56C | 82.0 | NBY154FHA | \$ 514 | |
| 1800 | | 56C | 78.0 | RBY154FHA | \$ 602 | |
| 1800 | | 145TC | 84.0 | DBY154FHA | \$ 540 | |
| 1800 | | 145TC | 84.0 | EWY154FHA | \$ 720 | |
| 1200 | | 182TC | 85.5 | EWY156FHA | \$ 848 | |
| 2 | | 3600 | 56C | 82.0 | NB0022FHA | \$ 576 |
| | 3600 | 56C | 77.0 | RB0022FHA | \$ 616 | |
| | 3600 | 145TC | 84.0 | DB0022FHA | \$ 624 | |
| | 3600 | 145TC | 84.0 | EW0022FHA | \$ 772 | |
| | 1800 | 56C | 84.0 | NB0024FHA | \$ 610 | |
| | 1800 | 56C | 78.0 | RB0024FHA | \$ 650 | |
| | 1800 | 145TC | 84.0 | DB0024FHA | \$ 564 | |
| | 1800 | 145TC | 84.0 | EW0024FHA | \$ 750 | |
| | 1200 | 184TC | 86.5 | EW0026FHA | \$1032 | |
| | 3 | 3600 | 182TC | 85.5 | DB0032FHA | \$ 782 |
| 3600 | | 182TC | 85.5 | EW0032FHA | \$ 962 | |
| 1800 | | 182TC | 87.5 | DB0034FHA | \$ 700 | |
| 1800 | | 182TC | 87.5 | EW0034FHA | \$ 978 | |
| 1200 | | 213TC | 87.5 | EW0036FHA | \$1270 | |
| 5 | | 3600 | 184TC | 87.5 | DB0052FHA | \$ 890 |
| | 3600 | 184TC | 87.5 | EW0052FHA | \$1116 | |
| | 1800 | 184TC | 87.5 | DB0054FHA | \$ 796 | |
| | 1800 | 184TC | 87.5 | EW0054FHA | \$1042 | |
| | 1200 | 215TC | 87.5 | EW0056FHA | \$1694 | |
| 7.5 | 3600 | 213TC | 88.5 | DBY752FHA | \$1146 | |
| | 3600 | 213TC | 88.5 | EWY752FHA | \$1414 | |
| | 1800 | 213TC | 89.5 | DBY754FHA | \$1018 | |
| | 1800 | 213TC | 89.5 | EWY754FHA | \$1296 | |
| 1200 | 254TC | 89.5 | EWY756FHA | \$2384 | | |

Shaded Models Cast Iron Construction



**Totally Enclosed Fan Cooled
Three Phase Motors – EISA 2007 PREMIUM
EFFICIENT Rated
C-Face Foot Mounted
60 Hz. – 230/460 Volt**

| HP | RPM | Frame | Eff. % | Model Number | List Price |
|------|-------|--------|-----------|--------------|------------|
| 1 | 1800 | 143TC | 85.5 | DH0014FHA | \$ 621 |
| | 1800 | 143TC | 86.5 | JH0014FHA | \$ 822 |
| | 1200 | 145TC | 84.0 | JH0016FHA | \$ 890 |
| 1.5 | 3600 | 143TC | 84.0 | DHY152FHA | \$ 651 |
| | 3600 | 143TC | 85.5 | JHY152FHA | \$ 806 |
| | 1800 | 145TC | 86.5 | DHY154FHA | \$ 639 |
| 2 | 1800 | 145TC | 87.5 | JHY154FHA | \$ 850 |
| | 1200 | 182TC | 87.5 | JHY156FHA | \$ 1000 |
| | 3600 | 145TC | 85.5 | DH0022FHA | \$ 718 |
| | 3600 | 145TC | 86.5 | JH0022FHA | \$ 832 |
| | 1800 | 145TC | 86.5 | DH0024FHA | \$ 702 |
| 3 | 1800 | 145TC | 87.5 | JH0024FHA | \$ 892 |
| | 1200 | 184TC | 88.5 | JH0026FHA | \$ 1220 |
| | 3600 | 182TC | 86.5 | DH0032FHA | \$ 899 |
| | 3600 | 182TC | 88.5 | JH0032FHA | \$ 1042 |
| | 1800 | 182TC | 89.5 | DH0034FHA | \$ 805 |
| | 1800 | 182TC | 90.2 | JH0034FHA | \$ 1060 |
| 5 | 1200 | 213TC | 89.5 | EH0036FHA | \$ 1376 |
| | 3600 | 184TC | 88.5 | DH0052FHA | \$ 1024 |
| | 3600 | 184TC | 90.2 | JH0052FHA | \$ 1210 |
| | 1800 | 184TC | 89.5 | DH0054FHA | \$ 915 |
| | 1800 | 184TC | 90.2 | JH0054FHA | \$ 1130 |
| 7.5 | 1200 | 215TC | 89.5 | EH0056FHA | \$ 1794 |
| | 3600 | 213TC | 89.5 | DHY752FHA | \$ 1318 |
| | 3600 | 213TC | 90.2 | EHY752FHA | \$ 1536 |
| | 1800 | 213TC | 91.7 | DHY754FHA | \$ 1171 |
| | 1800 | 213TC | 91.0 | EHY754FHA | \$ 1404 |
| | 1200 | 254TC | 91.7 | EHY756FHA | \$ 2526 |
| 10 | 3600 | 215TC | 90.2 | DH0102FHA | \$ 1555 |
| | 3600 | 215TC | 91.7 | EH0102FHA | \$ 1780 |
| | 1800 | 215TC | 91.7 | DH0104FHA | \$ 1403 |
| | 1800 | 215TC | 91.7 | EH0104FHA | \$ 1652 |
| | 1200 | 256TC | 91.7 | EH0106FHA | \$ 2956 |
| 15 | 3600 | 254TC | 91.0 | EH0152FHA | \$ 2420 |
| | 1800 | 254TC | 92.4 | EH0154FHA | \$ 2440 |
| | 1200 | 284TC | 92.4 | EH0156FHA | \$ 3936 |
| 20 | 3600 | 256TC | 91.0 | EH0202FHA | \$ 3048 |
| | 1800 | 256TC | 93.0 | EH0204FHA | \$ 2912 |
| | 1200 | 286TC | 92.4 | EH0206FHA | \$ 4880 |
| 25 | 3600 | 284TSC | 91.7 | EH0252FHA | \$ 3624 |
| | 1800 | 284TC | 93.6 | EH0254FHA | \$ 3452 |
| | 1200 | 324TC | 93.0 | EH0256FHA | \$ 5900 |
| 30 | 3600 | 286TSC | 92.4 | EH0302FHA | \$ 4248 |
| | 1800 | 286TC | 93.6 | EH0304FHA | \$ 3994 |
| 40 | 1200 | 326TC | 93.0 | EH0306FHA | \$ 6728 |
| | 3600 | 324TSC | 93.0 | EH0402FHA | \$ 5704 |
| 50 | 1800 | 324TC | 95.0 | EH0404FHA | \$ 5704 |
| | 3600 | 326TSC | 93.6 | EH0502FHA | \$ 7932 |
| 60 | 1800 | 326TC | 95.0 | EH0504FHA | \$ 7232 |
| | 3600 | 364TSC | 94.1 | EH0602FHA | \$ 9766 |
| 75 | 1800 | 364TC | 95.0 | EH0604FHA | \$ 9622 |
| | 3600 | 365TSC | 94.5 | EH0752FHA | \$12952 |
| 1800 | 365TC | 95.0 | EH0754FHA | \$11306 | |

Shaded Models Cast Iron Construction



**Totally Enclosed Fan Cooled
Three Phase Motors – EPAct Efficient Rated
C-Face Foot Mounted
60 Hz. – 230/460 Volt**

These Models to become Obsolete after Inventory is Depleted

| HP | RPM | Frame | Eff. % | Model Number | List Price |
|----|------|--------|--------|--------------|------------|
| 10 | 3600 | 215TC | 89.5 | DB0102FHA | \$ 1352 |
| | 3600 | 215TC | 89.5 | EW0102FHA | \$ 1642 |
| | 1800 | 215TC | 89.5 | DB0104FHA | \$ 1220 |
| | 1800 | 215TC | 89.5 | EW0104FHA | \$ 1524 |
| | 1200 | 256TC | 89.5 | EW0106FHA | \$ 2788 |
| 15 | 3600 | 254TC | 90.2 | EW0152FHA | \$ 2282 |
| | 1800 | 254TC | 91.0 | EW0154FHA | \$ 2252 |
| | 1200 | 284TC | 90.2 | EW0156FHA | \$ 3716 |
| 20 | 3600 | 256TC | 90.2 | EW0202FHA | \$ 2810 |
| | 1800 | 256TC | 91.0 | EW0204FHA | \$ 2684 |
| | 1200 | 286TC | 90.2 | EW0206FHA | \$ 4606 |
| 25 | 3600 | 284TSC | 91.0 | EW0252FHA | \$ 3500 |
| | 1800 | 284TC | 92.4 | EW0254FHA | \$ 3308 |
| | 1200 | 324TC | 91.7 | EW0256FHA | \$ 5696 |
| 30 | 3600 | 286TSC | 91.0 | EW0302FHA | \$ 4010 |
| | 1800 | 286TC | 92.4 | EW0304FHA | \$ 3770 |
| | 1200 | 326TC | 91.7 | EW0306FHA | \$ 6352 |
| 40 | 3600 | 324TSC | 91.7 | EW0402FHA | \$ 5384 |
| | 1800 | 324TC | 93.0 | EW0404FHA | \$ 5048 |
| 50 | 3600 | 326TSC | 92.4 | EW0502FHA | \$ 6352 |
| | 1800 | 326TC | 93.0 | EW0504FHA | \$ 6294 |
| 60 | 3600 | 364TSC | 93.0 | EW0602FHA | \$ 9040 |
| | 1800 | 364TC | 93.6 | EW0604FHA | \$ 8312 |
| 75 | 3600 | 365TSC | 93.0 | EW0752FHA | \$11726 |
| | 1800 | 365TC | 94.1 | EW0754FHA | \$ 9920 |

Shaded Models Cast Iron Construction



**Totally Enclosed Fan Cooled
Three Phase Motors – EISA Energy Rated
Close Coupled Style JM Pump Mount
60 Hz. – 230/460 Volt**

| HP | RPM | Frame | Eff. % | Model Number | List Price |
|-----|------|-------|--------|--------------|------------|
| 1 | 1800 | 143JM | 82.5 | EW0014FJA | \$1106 |
| 1.5 | 3600 | 143JM | 82.5 | EWY152FJA | \$1106 |
| | 1800 | 145JM | 82.5 | EWY154FJA | \$1106 |
| 2 | 3600 | 145JM | 84.0 | EW0022FJA | \$1202 |
| | 1800 | 145JM | 84.0 | EW0024FJA | \$1182 |
| 3 | 3600 | 182JM | 85.5 | EW0032FJA | \$1360 |
| | 1800 | 182JM | 87.5 | EW0034FJA | \$1376 |
| 5 | 3600 | 184JM | 87.5 | EW0052FJA | \$1500 |
| | 1800 | 184JM | 87.5 | EW0054FJA | \$1432 |
| 7.5 | 3600 | 213JM | 88.5 | EWY752FJA | \$1872 |
| | 1800 | 213JM | 88.5 | EWY754FJA | \$1758 |
| 10 | 3600 | 215JM | 89.5 | EW0102FJA | \$2046 |
| | 1800 | 215JM | 89.5 | EW0104FJA | \$1936 |
| 15 | 3600 | 254JM | 90.2 | EW0152FJA | \$2888 |
| | 1800 | 254JM | 91.0 | EW0154FJA | \$2854 |
| 20 | 3600 | 256JM | 90.2 | EW0202FJA | \$3374 |
| | 1800 | 256JM | 91.0 | EW0204FJA | \$3268 |
| 25 | 3600 | 284JM | 91.0 | EW0252FJA | \$4328 |
| | 1800 | 284JM | 92.4 | EW0254FJA | \$4146 |
| 30 | 3600 | 286JM | 91.0 | EW0302FJA | \$4792 |
| | 1800 | 286JM | 92.4 | EW0304FJA | \$4570 |
| 40 | 3600 | 324JM | 91.7 | EW0402FJA | \$6398 |
| | 1800 | 324JM | 93.0 | EW0404FJA | \$6086 |
| 50 | 3600 | 326JM | 92.4 | EW0502FJA | \$7288 |
| | 1800 | 326JM | 93.0 | EW0504FJA | \$7236 |



**Totally Enclosed Fan Cooled
Single Phase Motors – Standard Efficient
C-Face Foot Mounted
60Hz. – 115/230 Volt**

| HP | RPM | Frame | Model Number | List Price |
|-----|------|-------|--------------|------------|
| 1/3 | 1800 | 56C | NBY034FHW | \$ 406 |
| 1/2 | 1800 | 56C | NBY054FHW | \$ 466 |
| 3/4 | 1800 | 56C | NBY074FHW | \$ 546 |
| 1 | 1800 | 56C | NB0014FHW | \$ 622 |

**Totally Enclosed Fan Cooled
Single Phase Motors – Standard Efficient
C-Face Footless
60Hz. – 115/230 Volt**

| HP | RPM | Frame | Model Number | List Price |
|-----|------|-------|--------------|------------|
| 1/3 | 1800 | 56C | NBY034FCW | \$ 380 |
| 1/2 | 1800 | 56C | NBY054FCW | \$ 440 |
| 3/4 | 1800 | 56C | NBY074FCW | \$ 520 |
| 1 | 1800 | 56C | NB0014FCW | \$ 596 |



**Totally Enclosed Fan Cooled
Three Phase Motors – Standard Efficient
C-Face Footless 60Hz. – 230/460 Volt**

These Models to become Obsolete after Inventory is Depleted *

| HP | RPM | Frame | Eff. % | Model Number | List Price |
|-----|------|-------|--------|--------------|------------|
| 1/3 | 1800 | 56C | 72.5 | NBY034NCA | \$ 348 |
| | 1800 | 56C | 72.5 | NBY034FCA | \$ 376 |
| | 1800 | 56C | 72.5 | RBY034FCA | \$ 436 |
| 1/2 | 1200 | 56C | 66.5 | RBY036FCA | \$ 590 |
| | 1800 | 56C | 74.0 | NBY054NCA | \$ 410 |
| | 1800 | 56C | 74.0 | NBY054FCA | \$ 416 |
| 3/4 | 1800 | 56C | 74.0 | RBY054FCA | \$ 478 |
| | 1200 | 56C | 72.5 | RBY056FCA | \$ 646 |
| | 1800 | 56C | 74.5 | NBY074NCA | \$ 448 |
| 1 | 1800 | 56C | 74.5 | NBY074FCA | \$ 454 |
| | 1800 | 56C | 74.5 | RBY074FCA | \$ 520 |
| | 1200 | 56C | 76.5 | RBY076FCA | \$ 678 |
| 1.5 | 1800 | 56C | 77.5 | NB0014FCA | \$ 494 |
| | 1800 | 56C | 77.5 | RB0014FCA | \$ 566 |
| | 1800 | 143TC | 75.5 | JB0014FCA | \$ 476 |
| 2 | 1200 | 56C | 78.5 | RB0016FCA | \$ 752 |
| | 1200 | 145TC | 77.0 | JB0016FCA | \$ 616 |
| | 1800 | 56C | 83.5 | NBY154FCA | \$ 522 |
| 3 | 1800 | 56C | 83.5 | RBY154FCA | \$ 598 |
| | 1800 | 145TC | 77.0 | JBY154FCA | \$ 518 |
| | 1200 | 182TC | 80.0 | JBY156FCA | \$ 786 |
| 5 | 1800 | 56C | 85.5 | NB0024FCA | \$ 562 |
| | 1800 | 56C | 85.5 | RB0024FCA | \$ 646 |
| | 1800 | 145TC | 78.5 | JB0024FCA | \$ 544 |
| 7.5 | 1200 | 184TC | 82.5 | JB0026FCA | \$ 812 |
| | 1800 | 182TC | 82.5 | JB0034FCA | \$ 750 |
| | 1800 | 184TC | 84.0 | JB0054FCA | \$ 824 |
| 10 | 1800 | 213TC | 85.5 | EBY754FCA | \$1088 |
| | 1800 | 215TC | 87.5 | EB0104FCA | \$1404 |
| 15 | 1800 | 254TC | 89.5 | EB0154FCA | \$2250 |
| | 1800 | 256TC | 90.2 | EB0204FCA | \$2658 |
| 20 | 1800 | 284TC | 89.5 | EB0254FCA | \$3252 |
| | 1800 | 286TC | 90.2 | EB0304FCA | \$3728 |
| 30 | 1800 | 324TC | 91.0 | EB0404FCA | \$5150 |
| | 1800 | 326TC | 91.7 | EB0504FCA | \$6108 |

* Applicable to NEMA Frame 143T and Larger

**Totally Enclosed Fan Cooled
Three Phase Motors – EISA Energy Rated
C-Face Footless 60Hz. – 230/460 Volt**

| HP | RPM | Frame | Eff. % | Model Number | List Price |
|-----|------|-------|--------|--------------|------------|
| 1 | 1800 | 143TC | 82.0 | DB0014FCA | \$ 494 |
| | 1800 | 143TC | 82.5 | EW0014FCA | \$ 514 |
| 1.5 | 1800 | 145TC | 84.0 | DBY154FCA | \$ 522 |
| | 1800 | 145TC | 84.0 | EWY154FCA | \$ 559 |
| 2 | 1800 | 145TC | 84.0 | DB0024FCA | \$ 562 |
| | 1800 | 145TC | 84.0 | EW0024FCA | \$ 588 |
| 3 | 1800 | 182TC | 87.5 | DB0034FCA | \$ 624 |
| | 1800 | 182TC | 87.5 | EW0034FCA | \$ 810 |
| 5 | 1800 | 184TC | 87.5 | DB0054FCA | \$ 714 |
| | 1800 | 184TC | 87.5 | EW0054FCA | \$ 890 |
| 7.5 | 1800 | 213TC | 89.5 | DBY754FCA | \$ 964 |
| | 1800 | 213TC | 89.5 | EWY754FCA | \$1175 |
| 10 | 1800 | 215TC | 89.5 | DB0104FCA | \$1160 |
| | 1800 | 215TC | 89.5 | EW0104FCA | \$1516 |

Shaded Models Cast Iron Construction

**Totally Enclosed Fan Cooled
Three Phase Motors – EISA Energy Rated
C-Face Footless 60Hz. – 230/460 Volt**

| HP | RPM | Frame | Eff. % | Model Number | List Price |
|----|------|-------|--------|--------------|------------|
| 15 | 1800 | 254TC | 91.0 | EW0154FCA | \$2430 |
| 20 | 1800 | 256TC | 91.0 | EW0204FCA | \$2870 |
| 25 | 1800 | 284TC | 92.4 | EW0254FCA | \$3512 |
| 30 | 1800 | 286TC | 92.4 | EW0304FCA | \$4026 |
| 40 | 1800 | 324TC | 93.0 | EW0404FCA | \$5562 |
| 50 | 1800 | 326TC | 93.0 | EW0504FCA | \$6597 |

Shaded Models Cast Iron Construction

**Totally Enclosed Fan Cooled
Three Phase Motors – PREMIUM EFFICIENT
C-Face Footless 60Hz. – 230/460 Volt**

| HP | RPM | Frame | Eff. % | Model Number | List Price |
|-----|------|-------|--------|--------------|------------|
| 1 | 1800 | 143TC | 85.5 | DH0014FCA | \$ 568 |
| | 1800 | 143TC | 86.5 | JH0014FCA | \$ 548 |
| | 1200 | 145TC | 82.5 | DH0016FCA | \$ 612 |
| 1.5 | 1200 | 145TC | 84.0 | JH0016FCA | \$ 708 |
| | 1800 | 145TC | 86.5 | DHY154FCA | \$ 600 |
| | 1800 | 145TC | 87.5 | JHY154FCA | \$ 596 |
| 2 | 1200 | 182TC | 87.5 | DHY156FCA | \$ 750 |
| | 1200 | 182TC | 87.5 | JHY156FCA | \$ 825 |
| | 1800 | 145TC | 86.5 | DH0024FCA | \$ 646 |
| 3 | 1800 | 145TC | 87.5 | JH0024FCA | \$ 628 |
| | 1200 | 184TC | 88.5 | DH0026FCA | \$ 787 |
| | 1200 | 184TC | 88.5 | JH0026FCA | \$ 886 |
| 5 | 1800 | 182TC | 89.5 | DH0034FCA | \$ 718 |
| | 1800 | 182TC | 90.2 | JH0034FCA | \$ 864 |
| | 1200 | 213TC | 89.5 | DH0036FCA | \$1039 |
| 7.5 | 1200 | 213TC | 89.5 | EH0036FCA | \$1127 |
| | 1800 | 184TC | 89.5 | DH0054FCA | \$ 821 |
| | 1800 | 184TC | 90.2 | JH0054FCA | \$ 948 |
| 10 | 1200 | 215TC | 89.5 | DH0056FCA | \$1472 |
| | 1200 | 215TC | 89.5 | EH0056FCA | \$1633 |
| | 1800 | 213TC | 91.7 | DHY754FCA | \$1109 |
| 15 | 1800 | 213TC | 91.7 | EHY754FCA | \$1250 |
| | 1200 | 254TC | 91.7 | EHY756FCA | \$2295 |
| | 1800 | 213TC | 91.7 | DH0104FCA | \$1435 |
| 20 | 1800 | 213TC | 91.7 | EH0104FCA | \$1614 |
| | 1200 | 256TC | 91.7 | EH0106FCA | \$2792 |
| 30 | 1800 | 254TC | 92.4 | EH0154FCA | \$2590 |
| | 1800 | 256TC | 93.0 | EH0204FCA | \$3058 |

Shaded Models Cast Iron Construction



**Totally Enclosed Fan Cooled
Three Phase Motors –Standard Efficient
Foot Mounted Brakemotor 60Hz. – 230/460 Volt**

These Models to become Obsolete after Inventory is Depleted *

| HP | RPM | Frame | Eff. % | Model Number | List Price |
|-----|------|-------|--------|---------------|------------|
| 1 | 1800 | B143T | 77.0 | JB0014FSA003S | \$1138 |
| | 1800 | B143T | 77.0 | JB0014FSA006S | \$1154 |
| 1.5 | 1800 | B145T | 80.0 | JB0014FSA010S | \$1222 |
| | 1800 | B145T | 80.0 | JB0014FSA010S | \$1292 |
| 2 | 1800 | B145T | 82.5 | JB0024FSA006S | \$1254 |
| | 1800 | B145T | 82.5 | JB0024FSA010S | \$1316 |
| 3 | 1800 | B182T | 82.5 | JB0034FSA010S | \$1988 |
| | 1800 | B182T | 82.5 | JB0034FSA015S | \$2020 |
| 5 | 1800 | B184T | 84.0 | JB0054FSA015S | \$2210 |
| | 1800 | B184T | 84.0 | JB0054FSA025S | \$2732 |
| 7.5 | 1800 | B213T | 86.5 | EBY754FSA025S | \$3154 |
| | 1800 | B213T | 86.5 | EBY754FSA035S | \$3340 |
| 10 | 1800 | B215T | 87.5 | EB0104FSA035S | \$3594 |
| | 1800 | B215T | 87.5 | EB0104FSA050S | \$4644 |
| 15 | 1800 | B254T | 88.5 | EB0154FSA050S | \$4912 |
| | 1800 | B254T | 88.5 | EB0154FSA075S | \$5672 |
| 20 | 1800 | B256T | 89.5 | EB0204FSA075S | \$5784 |
| | 1800 | B256T | 89.5 | EB0204FSA105S | \$7318 |
| 25 | 1800 | B284T | 88.5 | EB0254FSA075S | \$7598 |
| | 1800 | B284T | 88.5 | EB0254FSA105S | \$8538 |
| 30 | 1800 | B286T | 88.5 | EB0304FSA105S | \$9528 |

Shaded Models Cast Iron Construction

**Totally Enclosed Fan Cooled
Three Phase Motors –EISA Energy Rated
Foot Mounted Brakemotor 60Hz. – 230/460 Volt**

| HP | RPM | Frame | Eff. % | Model Number | List Price |
|-----|------|-------|--------|---------------|------------|
| 1 | 1800 | B143T | 82.0 | DB0014FSA003S | \$ 1192 |
| | 1800 | B143T | 82.0 | DB0014FSA006S | \$ 1210 |
| 1.5 | 1800 | B145T | 84.0 | DBY154FSA006S | \$ 1233 |
| | 1800 | B145T | 84.0 | DBY154FSA010S | \$ 1309 |
| 2 | 1800 | B145T | 84.0 | DB0024FSA006S | \$ 1252 |
| | 1800 | B145T | 84.0 | DB0024FSA010S | \$ 1319 |
| 3 | 1800 | B182T | 87.5 | DB0034FSA010S | \$ 1985 |
| | 1800 | B182T | 87.5 | DB0034FSA015S | \$ 2017 |
| 5 | 1800 | B184T | 87.5 | DB0054FSA015S | \$ 2145 |
| | 1800 | B184T | 87.5 | DB0054FSA025S | \$ 2709 |
| 7.5 | 1800 | B213T | 89.5 | DBY754FSA025S | \$ 3127 |
| | 1800 | B213T | 89.5 | DBY754FSA035S | \$ 3327 |
| 10 | 1800 | B215T | 89.5 | DB0104FSA035S | \$ 3577 |
| | 1800 | B215T | 89.5 | DB0104FSA050S | \$ 4711 |
| 15 | 1800 | B254T | 91.0 | EW0154FSA050S | \$ 5305 |
| | 1800 | B254T | 91.0 | EW0154FSA075S | \$ 6126 |
| 20 | 1800 | B256T | 91.0 | EW0204FSA075S | \$ 6246 |
| | 1800 | B256T | 91.0 | EW0204FSA105S | \$ 7903 |
| 25 | 1800 | B284T | 92.4 | EW0254FSA075S | \$ 8206 |
| | 1800 | B284T | 92.4 | EW0254FSA105S | \$ 9221 |
| 30 | 1800 | B286T | 92.4 | EW0304FSA105S | \$10290 |

Shaded Models Cast Iron Construction



**Totally Enclosed Fan Cooled
Three Phase Motors –Standard Efficient
C-Face Footless Brakemotor
60Hz. – 230/460 Volt**

These Models to become Obsolete after Inventory is Depleted *

| HP | RPM | Frame | Eff. % | Model Number | List Price |
|-----|------|--------|--------|---------------|------------|
| 1/3 | 1800 | B56C | 72.5 | RB0014FTA003S | \$ 978 |
| 1/2 | 1800 | B56C | 74.0 | RB0014FTA003S | \$1020 |
| 3/4 | 1800 | B56C | 74.5 | RB0014FTA006S | \$1106 |
| 1 | 1800 | B56C | 77.5 | RB0014FTA006S | \$1152 |
| | 1800 | B143TC | 77.0 | JB0014FTA003S | \$1190 |
| 1.5 | 1800 | B143TC | 77.0 | JB0014FTA006S | \$1210 |
| | 1800 | B56C | 83.5 | RB0014FTA010S | \$1266 |
| 1.5 | 1800 | B145TC | 80.0 | JB0014FTA006S | \$1288 |
| | 1800 | B145TC | 80.0 | JB0014FTA010S | \$1348 |
| 2 | 1800 | B56C | 85.5 | RB0024FTA010S | \$1314 |
| | 1800 | B145TC | 82.5 | JB0024FTA006S | \$1308 |
| 2 | 1800 | B145TC | 82.5 | JB0024FTA010S | \$1376 |
| | 1800 | B182TC | 82.5 | JB0034FTA010S | \$2072 |
| 3 | 1800 | B182TC | 82.5 | JB0034FTA015S | \$2114 |
| | 1800 | B184TC | 84.0 | JB0054FTA015S | \$2288 |
| 5 | 1800 | B184TC | 84.0 | JB0054FTA025S | \$2806 |
| | 1800 | B213TC | 86.5 | EBY754FTA025S | \$3332 |
| 7.5 | 1800 | B213TC | 86.5 | EBY754FTA035S | \$3510 |
| | 1800 | B215TC | 87.5 | EB0104FTA035S | \$3688 |
| 10 | 1800 | B215TC | 87.5 | EB0104FTA050S | \$4776 |

* Applicable to NEMA Frame 143T and Larger
Shaded Models Cast Iron Construction

**Totally Enclosed Fan Cooled
Three Phase Motors –EISA Energy Rated
C-Face Footless Brakemotor
60Hz. – 230/460 Volt**

| HP | RPM | Frame | Eff. % | Model Number | List Price |
|-----|------|-------|--------|----------------|------------|
| 1 | 1800 | B143T | 82.0 | DB0014FTA003S | \$ 1248 |
| | 1800 | B143T | 82.0 | DB0014FTA006S | \$ 1270 |
| 1.5 | 1800 | B145T | 84.0 | DBY154FTA006S | \$ 1305 |
| | 1800 | B145T | 84.0 | DBY154FTA010S | \$ 1369 |
| 2 | 1800 | B145T | 84.0 | DB0024FTA006S | \$ 1310 |
| | 1800 | B145T | 84.0 | DB0024FTA010S | \$ 1383 |
| 3 | 1800 | B182T | 87.5 | DB0034FTA010S | \$ 2076 |
| | 1800 | B182T | 87.5 | DB0034FTA015S | \$ 2121 |
| 5 | 1800 | B184T | 87.5 | DB0054FTA015S | \$ 2229 |
| | 1800 | B184T | 87.5 | DB0054FTA025S | \$ 2789 |
| 7.5 | 1800 | B213T | 89.5 | DBY754FTA025S | \$ 3319 |
| | 1800 | B213T | 89.5 | DBY754FTA035S | \$ 3511 |
| 10 | 1800 | B215T | 89.5 | DB0104FTA035S | \$ 3678 |
| | 1800 | B215T | 89.5 | DB0104FTA050S | \$ 4854 |
| 15 | 1800 | B254T | 91.0 | EW0154FYA050S+ | \$ 5361 |
| | 1800 | B254T | 91.0 | EW0154YSA075S+ | \$ 6398 |
| 20 | 1800 | B256T | 91.0 | EW0204YSA075S+ | \$ 6519 |
| | 1800 | B256T | 91.0 | EW0204YSA105S+ | \$ 8176 |
| 25 | 1800 | B284T | 92.4 | EW0254YSA075S+ | \$ 8614 |
| | 1800 | B284T | 92.4 | EW0254YSA105S+ | \$ 9630 |
| 30 | 1800 | B286T | 92.4 | EW0304FYA105S+ | \$10703 |

+ C-Face Foot Mounted



**Totally Enclosed Fan Cooled - Washdown Duty
Three Phase Motors – EPAct Efficient Rated
C-Face Foot Mounted 60Hz. – 230/460 Volt**

These Models to become Obsolete after Inventory is Depleted *

| HP | RPM | Frame | Eff. % | Model Number | List Price |
|-----|------|--------|--------|--------------|------------|
| 1/2 | 3600 | 56C | 73.0 | NBY052MHA+ | \$ 526 |
| | 1800 | 56C | 78.0 | NBY054MHA+ | \$ 592 |
| 3/4 | 3600 | 56C | 75.0 | NBY072MHA+ | \$ 578 |
| | 1800 | 56C | 81.0 | NBY074MHA+ | \$ 684 |
| 1 | 3600 | 56C | 71.0 | NB0012PHA | \$ 678 |
| | 1800 | 56C | 81.0 | NB0014PHA | \$ 716 |
| | 1800 | 143TC | 82.5 | DB0014PHA | \$ 716 |
| 1.5 | 3600 | 56C | 82.0 | NBY152PHA | \$ 750 |
| | 3600 | 143TC | 82.5 | DBY152PHA | \$ 750 |
| | 1800 | 56C | 84.0 | NBY154PHA | \$ 744 |
| | 1800 | 145TC | 84.0 | DBY154PHA | \$ 744 |
| 2 | 3600 | 56C | 82.0 | NB0022PHA | \$ 830 |
| | 3600 | 145TC | 84.0 | DB0022PHA | \$ 882 |
| | 1800 | 56C | 84.0 | NB0024PHA | \$ 920 |
| | 1800 | 145TC | 84.0 | DB0024PHA | \$ 920 |
| 3 | 3600 | 182TC | 85.5 | DB0032PHA | \$1294 |
| | 1800 | 182TC | 87.5 | DB0034PHA | \$1210 |
| 5 | 3600 | 184TC | 87.5 | DB0052PHA | \$1416 |
| | 1800 | 184TC | 87.5 | DB0054PHA | \$1370 |
| 7.5 | 3600 | 213TC | 88.5 | DBY752PHA | \$1882 |
| | 1800 | 213TC | 89.5 | DBY754PHA | \$1736 |
| 10 | 3600 | 215TC | 89.5 | DB0102PHA | \$2236 |
| | 1800 | 215TC | 89.5 | DB0104PHA | \$1974 |
| 15 | 3600 | 254TC | 90.2 | EW0152PHA | \$3990 |
| | 1800 | 254TC | 91.0 | EW0154PHA | \$3928 |
| 20 | 3600 | 256TC | 90.2 | EW0202PHA | \$4584 |
| | 1800 | 256TC | 91.0 | EW0204PHA | \$4556 |
| 25 | 3600 | 284TSC | 91.0 | EW0252PHA | \$5730 |
| | 1800 | 284TC | 92.4 | EW0254PHA | \$5558 |
| 30 | 3600 | 286TSC | 91.0 | EW0302PHA | \$6704 |
| | 1800 | 286TC | 92.4 | EW0304PHA | \$6502 |
| 40 | 3600 | 324TSC | 91.7 | EW0402PHA | \$9045 |
| | 1800 | 324TC | 93.0 | EW0404PHA | \$8480 |

* Applicable to NEMA Frame 143T and Larger
+ **Totally Enclosed Non-Ventilated Enclosure**
Shaded Models Cast Iron Construction

**Totally Enclosed Fan Cooled - Washdown Duty
Three Phase Motors – EISA 2007 PREMIUM
EFFICIENT Rated
C-Face Foot Mounted 60Hz. – 230/460 Volt**

| HP | RPM | Frame | Eff. % | Model Number | List Price |
|-----|------|--------|--------|--------------|------------|
| 1 | 1800 | 143TC | 85.5 | DH0014PHA | \$ 773 |
| 1.5 | 3600 | 143TC | 84.0 | DHY152PHA | \$ 810 |
| | 1800 | 145TC | 86.5 | DHY154PHA | \$ 804 |
| 2 | 3600 | 145TC | 85.5 | DH0022PHA | \$ 953 |
| | 1800 | 145TC | 86.5 | DH0024PHA | \$ 994 |
| 3 | 3600 | 182TC | 86.5 | DH0032PHA | \$1398 |
| | 1800 | 182TC | 89.5 | DH0034PHA | \$1307 |
| 5 | 3600 | 184TC | 88.5 | DH0052PHA | \$1529 |
| | 1800 | 184TC | 89.5 | DH0054PHA | \$1480 |
| 7.5 | 3600 | 213TC | 89.5 | DHY752PHA | \$2033 |
| | 1800 | 213TC | 91.7 | DHY754PHA | \$1875 |
| 10 | 3600 | 215TC | 90.2 | DH0102PHA | \$2415 |
| | 1800 | 215TC | 91.7 | DH0104PHA | \$2132 |
| 15 | 3600 | 254TC | 91.0 | EH0152PHA | \$4110 |
| | 1800 | 254TC | 92.4 | EH0154PHA | \$4046 |
| 20 | 3600 | 256TC | 91.0 | EH0202PHA | \$4720 |
| | 1800 | 256TC | 93.0 | EH0204PHA | \$4692 |
| 25 | 3600 | 284TSC | 91.7 | EH0252PHA | \$5900 |
| | 1800 | 284TC | 93.6 | EH0254PHA | \$5724 |
| 30 | 3600 | 286TSC | 92.4 | EH0302PHA | \$7306 |
| | 1800 | 286TC | 93.6 | EH0304PHA | \$6910 |
| 40 | 3600 | 324TSC | 93.0 | EH0402PHA | \$9811 |
| | 1800 | 324TC | 95.0 | EH0404PHA | \$9158 |

Shaded Models Cast Iron Construction

**Totally Enclosed Fan Cooled - Washdown Duty
Single Phase Motors – Standard Efficient
C-Face Foot Mounted
60Hz. – 115/230 Volt**

| HP | RPM | Frame | Model Number | List Price |
|-----|------|-------|--------------|------------|
| 1/3 | 1800 | 56C | NBY034PHW | \$393 |
| 1/2 | 1800 | 56C | NBY054PHW | \$453 |
| 3/4 | 1800 | 56C | NBY074PHW | \$533 |
| 1 | 1800 | 56C | NB0014PHW | \$609 |

**Totally Enclosed Fan Cooled - Washdown Duty
Single Phase Motors – Standard Efficient
C-Face Footless
60Hz. – 115/230 Volt**

| HP | RPM | Frame | Model Number | List Price |
|-----|------|-------|--------------|------------|
| 1/3 | 1800 | 56C | NBY034PCW | \$499 |
| 1/2 | 1800 | 56C | NBY054PCW | \$531 |
| 3/4 | 1800 | 56C | NBY074PCW | \$619 |
| 1 | 1800 | 56C | NB0014PCW | \$704 |



**Totally Enclosed Fan Cooled - Washdown Duty
Three Phase Motors – EISA Energy Rated
C-Face Footless 60Hz. – 230/460 Volt**

| HP | RPM | Frame | Eff. % | Model Number | List Price |
|-----|------|-------|--------|--------------|------------|
| 1/3 | 1800 | 56C | 76.5 | NBY034MCA+^ | \$ 496 |
| 1/2 | 1800 | 56C | 78.0 | NBY054MCA+^ | \$ 576 |
| 3/4 | 1800 | 56C | 81.0 | NBY074MCA+^ | \$ 666 |
| 1 | 1800 | 56C | 81.0 | NB0014PCA^ | \$ 696 |
| | 1800 | 143TC | 82.5 | DB0014PCA | \$ 712 |
| 1.5 | 1800 | 56C | 84.0 | NBY154PCA^ | \$ 742 |
| | 1800 | 145TC | 84.0 | DBY154PCA | \$ 742 |
| 2 | 1800 | 56C | 82.0 | NB0024PCA^ | \$ 844 |
| | 1800 | 145TC | 84.0 | DB0024PCA | \$ 844 |
| 3 | 1800 | 182TC | 87.5 | DB0034PCA | \$1108 |
| 5 | 1800 | 184TC | 87.5 | DB0054PCA | \$1256 |
| 7.5 | 1800 | 213TC | 89.5 | DBY754PCA | \$1594 |
| 10 | 1800 | 215TC | 89.5 | DB0104PCA | \$1808 |

+ Totally Enclosed Non-Ventilated Enclosure
^ 56 Frame Motors do not apply to EISA Efficiency Regulation



**Totally Enclosed Fan Cooled - Washdown Duty
Three Phase Motors – EPAct Efficient Rated
C-Face Foot Mounted 60Hz. – 230/460 Volt**

| HP | RPM | Frame | Eff. % | Model Number | List Price |
|-----|------|-------|--------|--------------|------------|
| 1/3 | 3600 | 56C | 55.0 | SBY032MHA+^ | \$ 596 |
| | 1800 | 56C | 77.0 | SBY034MHA+^ | \$ 668 |
| 1/2 | 3600 | 56C | 77.0 | SBY052MHA+^ | \$ 612 |
| | 1800 | 56C | 78.0 | SBY054MHA+^ | \$ 688 |
| 3/4 | 3600 | 56C | 67.0 | SBY072MHA+^ | \$ 672 |
| | 1800 | 56C | 81.0 | SBY074MHA+^ | \$ 796 |
| 1 | 3600 | 56C | 75.5 | SB0012PHA^ | \$ 788 |
| | 3600 | 143TC | 75.5 | XB0012PHA | \$ 850 |
| | 1800 | 56C | 82.5 | SB0014MHA+^ | \$ 884 |
| | 1800 | 56C | 82.5 | SB0014PHA^ | \$ 830 |
| | 1800 | 143TC | 82.5 | XB0014PHA | \$ 892 |
| 1.5 | 3600 | 56C | 81.5 | SBY152PHA^ | \$ 872 |
| | 3600 | 143TC | 82.5 | XBY152PHA | \$ 938 |
| | 1800 | 56C | 82.5 | SBY154PHA^ | \$ 866 |
| | 1800 | 145TC | 84.0 | XBY154PHA | \$ 928 |
| 2 | 3600 | 56C | 84.0 | SB0022PHA^ | \$ 966 |
| | 3600 | 145TC | 84.0 | XB0022PHA | \$1124 |
| | 1800 | 56C | 84.0 | SB0024PHA^ | \$ 986 |
| | 1800 | 145TC | 84.0 | XB0024PHA | \$1102 |
| 3 | 3600 | 182TC | 85.5 | XB0032PHA | \$1726 |
| | 1800 | 182TC | 87.5 | XB0034PHA | \$1656 |
| 5 | 3600 | 184TC | 87.5 | XB0052PHA | \$1994 |
| | 1800 | 184TC | 87.5 | XB0054PHA | \$1914 |
| 7.5 | 3600 | 213TC | 88.5 | XBY752PHA | \$3168 |
| | 1800 | 213TC | 89.5 | XBY754PHA | \$3052 |
| 10 | 3600 | 215TC | 89.5 | XB0102PHA | \$3460 |
| | 1800 | 215TC | 89.5 | XB0104PHA | \$3346 |
| 15 | 3600 | 254TC | 90.2 | XB0152PHA | \$4794 |
| | 1800 | 254TC | 91.0 | XB0154PHA | \$4718 |
| 20 | 3600 | 256TC | 90.2 | XB0202PHA | \$5136 |
| | 1800 | 256TC | 91.0 | XB0204PHA | \$5108 |

+ Totally Enclosed Non-Ventilated Enclosure
^ 56 Frame Motors do not apply to EISA Efficiency Regulation

**Totally Enclosed Fan Cooled - Washdown Duty
Three Phase Motors –PREMIUM EFFICIENT
C-Face Footless 60Hz. – 230/460 Volt**

| HP | RPM | Frame | Eff. % | Model Number | List Price |
|-----|------|-------|--------|--------------|------------|
| 1 | 1800 | 143TC | 85.5 | DH0014PCA | \$ 824 |
| 1.5 | 1800 | 145TC | 86.5 | DHY154PCA | \$ 853 |
| 2 | 1800 | 145TC | 86.5 | DH0024PCA | \$ 971 |
| 3 | 1800 | 182TC | 89.5 | DH0034PCA | \$1274 |
| 5 | 1800 | 184TC | 89.5 | DH0054PCA | \$1444 |
| 7.5 | 1800 | 213TC | 91.7 | DHY754PCA | \$1833 |
| 10 | 1800 | 215TC | 91.7 | DH0104PCA | \$2079 |
| 15 | 1800 | 254TC | 92.4 | EH0154PCA | \$2668 |
| 20 | 1800 | 256TC | 93.0 | EH0204PCA | \$3660 |



**Totally Enclosed Fan Cooled - Washdown Duty
Three Phase Motors – EISA 2007 PREMIUM
EFFICIENT Rated
C-Face Foot Mounted 60Hz. – 230/460 Volt**

| HP | RPM | Frame | Eff. % | Model Number | List Price |
|-----|------|--------|--------|--------------|------------|
| 1 | 3600 | 143TC | 77.0 | XH0012PHA | \$ 906 |
| | 1800 | 143TC | 85.5 | XH0014PHA | \$1026 |
| 1.5 | 3600 | 143TC | 84.0 | XHY152PHA | \$1079 |
| | 1800 | 145TC | 86.5 | XHY154PHA | \$1067 |
| 2 | 3600 | 145TC | 85.5 | XH0022PHA | \$1293 |
| | 1800 | 145TC | 86.5 | XH0024PHA | \$1267 |
| 3 | 3600 | 182TC | 86.5 | XH0032PHA | \$1985 |
| | 1800 | 182TC | 89.5 | XH0034PHA | \$1904 |
| 5 | 3600 | 184TC | 88.5 | XH0052PHA | \$2293 |
| | 1800 | 184TC | 89.5 | XH0054PHA | \$2201 |
| 7.5 | 3600 | 213TC | 89.5 | XHY752PHA | \$3326 |
| | 1800 | 213TC | 91.7 | XHY754PHA | \$3205 |
| 10 | 3600 | 215TC | 90.2 | XH0102PHA | \$3633 |
| | 1800 | 215TC | 91.7 | XH0104PHA | \$3513 |
| 15 | 3600 | 254TC | 91.0 | XH0152PHA | \$5513 |
| | 1800 | 254TC | 92.4 | XH0154PHA | \$5426 |
| 20 | 3600 | 256TC | 91.0 | XH0202PHA | \$5909 |
| | 1800 | 256TC | 93.0 | XH0204PHA | \$5874 |
| 25 | 3600 | 284TSC | 91.7 | XH0252PHA | \$7098 |
| | 1800 | 284TC | 93.6 | XH0254PHA | \$6970 |
| 30 | 3600 | 286TSC | 91.7 | XH0302PHA | \$7342 |
| | 1800 | 286TC | 93.6 | XH0304PHA | \$7220 |



**Totally Enclosed Fan Cooled - Washdown Duty
Three Phase Motors – EPA Act Efficient Rated
C-Face Footless 60 Hz – 230/460 Volt**

| HP | RPM | Frame | Eff. % | Model Number | List Price |
|-----|------|-------|--------|--------------|------------|
| 1/3 | 1800 | 56C | 77.0 | SBY034MCA+^ | \$ 664 |
| 1/2 | 1800 | 56C | 78.0 | SBY054MCA+^ | \$ 682 |
| | 1800 | 56C | 80.0 | SBY054PCA^ | \$ 688 |
| | 1200 | 56C | 74.0 | SBY056PCA^ | \$ 786 |
| | 900 | 56C | 70.0 | SBY058PCA^ | \$ 830 |
| 3/4 | 1800 | 56C | 81.0 | SBY074MCA+^ | \$ 792 |
| | 1200 | 56C | 74.0 | SBY076PCA^ | \$ 896 |
| 1 | 1800 | 56C | 82.5 | SB0014MCA+^ | \$ 880 |
| | 1800 | 56C | 81.5 | SB0014PCA^ | \$ 826 |
| | 1800 | 143TC | 82.5 | XB0014PCA | \$ 852 |
| | 1200 | 56C | 80.0 | SB0016PCA^ | \$ 938 |
| 1.5 | 1800 | 56C | 82.5 | SBY154PCA^ | \$ 862 |
| | 1800 | 145TC | 84.0 | XBY154PCA | \$ 888 |
| 2 | 1800 | 56C | 84.0 | SB0024PCA^ | \$ 982 |
| | 1800 | 145TC | 84.0 | XB0024PCA | \$1012 |
| 3 | 1800 | 182TC | 87.5 | XB0034PCA | \$1616 |
| 5 | 1800 | 184TC | 87.5 | XB0054PCA | \$1874 |
| 7.5 | 1800 | 213TC | 89.5 | XBY754PCA | \$3016 |
| 10 | 1800 | 215TC | 89.5 | XB0104PCA | \$3308 |

+ Totally Enclosed Non-Ventilated Enclosure
^ 56 Frame Motors do not apply to EISA Efficiency Regulation



**Totally Enclosed Fan Cooled - Washdown Duty
Three Phase Motors – PREMIUM EFFICIENT
C-Face Footless 60Hz. – 230/460 Volt**

| HP | RPM | Frame | Eff. % | Model Number | List Price |
|-----|------|-------|--------|--------------|------------|
| 1 | 1800 | 143TC | 85.5 | XH0014PCA | \$980 |
| 1.5 | 1800 | 145TC | 86.5 | XHY154PCA | \$1021 |
| 2 | 1800 | 145TC | 86.5 | XH0024PCA | \$1164 |
| 3 | 1800 | 182TC | 89.5 | XH0034PCA | \$1858 |
| 5 | 1800 | 184TC | 89.5 | XH0054PCA | \$2155 |
| 7.5 | 1800 | 213TC | 91.7 | XHY754PCA | \$3167 |
| 10 | 1800 | 215TC | 91.7 | XH0104PCA | \$3473 |



**Totally Enclosed Fan Cooled - Washdown Duty
Three Phase Motors – INVERTER DUTY
(10:1 Constant Torque) Rated
C-Face Foot Mounted 60Hz. – 230/460 Volt**

| HP | RPM | Frame | Eff. % | Model Number | List Price |
|-----|------|-------|--------|--------------|------------|
| 1/2 | 1800 | 56C | 81.5 | SIY054MHI+ | \$1664 |
| 3/4 | 1800 | 56C | 80.5 | SIY074PHI | \$1884 |
| 1 | 1800 | 56C | 82.5 | SI0014PHI | \$1956 |
| | 1800 | 143TC | 82.5 | XI0014PHI | \$1956 |
| 1.5 | 1800 | 56C | 84.0 | SIY154PHI | \$2096 |
| | 1800 | 145TC | 84.0 | XIY154PHI | \$2096 |
| 2 | 1800 | 56C | 83.5 | SI0024PHI | \$2236 |
| | 1800 | 145TC | 85.5 | XI0024PHI | \$2236 |
| 3 | 1800 | 182TC | 87.5 | XI0034PHI | \$2452 |
| 5 | 1800 | 184TC | 87.5 | XI0054PHI | \$2856 |
| 7.5 | 1800 | 213TC | 89.5 | XIY754PHI | \$4328 |
| 10 | 1800 | 215TC | 89.5 | XI0104PHI | \$4944 |

+ Totally Enclosed Non-Ventilated Enclosure



**Totally Enclosed Fan Cooled - Washdown Duty
Three Phase Motors – INVERTER DUTY
(10:1 Constant Torque) Rated
C-Face Footless 60 Hz – 230/460 Volt**

| HP | RPM | Frame | Eff. % | Model Number | List Price |
|-----|------|-------|--------|--------------|------------|
| 1/2 | 1800 | 56C | 81.5 | SIY0054MCI+ | \$1648 |
| 3/4 | 1800 | 56C | 80.5 | SIY074PCI | \$1876 |
| 1 | 1800 | 56C | 82.5 | SI0014PCI | \$1948 |
| | 1800 | 143TC | 82.5 | XI0014PCI | \$1948 |
| 1.5 | 1800 | 56C | 84.0 | SIY154PCI | \$2080 |
| | 1800 | 145TC | 84.0 | XIY154PCI | \$2080 |
| 2 | 1800 | 56C | 83.5 | SI0024PCI | \$2220 |
| | 1800 | 145TC | 85.5 | XI0024PCI | \$2220 |
| 3 | 1800 | 182TC | 87.5 | XI0034PCI | \$2432 |
| 5 | 1800 | 184TC | 87.5 | XI0054PCI | \$2836 |
| 7.5 | 1800 | 213TC | 89.5 | XIY754PCI | \$4316 |
| 10 | 1800 | 215TC | 89.5 | XI0104PCI | \$4928 |

+ Totally Enclosed Non-Ventilated Enclosure



**Totally Enclosed Fan Cooled - Washdown Duty
Three Phase Motors – EISA Energy Rated
Close Coupled Style JM Pump Mount
60Hz. – 230/460 Volt**

| HP | RPM | Frame | Eff. % | Model Number | List Price |
|-----|------|-------|--------|--------------|------------|
| 1 | 1800 | 143JM | 82.5 | XB0014PJA | \$ 960 |
| 1.5 | 3600 | 145JM | 82.5 | XBY152PJA | \$1012 |
| | 1800 | 145JM | 84.0 | XBY154PJA | \$ 996 |
| 2 | 3600 | 145JM | 84.0 | XB0022PJA | \$1216 |
| | 1800 | 145JM | 84.0 | XB0024PJA | \$1192 |
| 3 | 3600 | 182JM | 85.5 | XB0032PJA | \$1964 |
| | 1800 | 182JM | 87.5 | XB0034PJA | \$1940 |
| 5 | 3600 | 184JM | 87.5 | XB0052PJA | \$2140 |
| | 1800 | 184JM | 87.5 | XB0054PJA | \$2056 |
| 7.5 | 3600 | 213JM | 88.5 | XBY752PJA | \$3540 |
| | 1800 | 213JM | 89.5 | XBY754PJA | \$3412 |
| 10 | 3600 | 215JM | 89.5 | XB0102PJA | \$3856 |
| | 1800 | 215JM | 89.5 | XB0104PJA | \$3732 |



**Totally Enclosed Fan Cooled - Washdown Duty
Three Phase Motors – PREMIUM EFFICIENT
Close Coupled Style JM Pump Mount
60Hz. – 230/460 Volt**

| HP | RPM | Frame | Eff. % | Model Number | List Price |
|-----|------|-------|--------|--------------|------------|
| 1 | 1800 | 143JM | 85.5 | XH0014PJA | \$1104 |
| 1.5 | 3600 | 145JM | 84.0 | XHY152PJA | \$1164 |
| | 1800 | 145JM | 86.5 | XHY154PJA | \$1145 |
| 2 | 3600 | 145JM | 85.5 | XH0022PJA | \$1398 |
| | 1800 | 145JM | 86.5 | XH0024PJA | \$1371 |
| 3 | 3600 | 182JM | 86.5 | XH0032PJA | \$2259 |
| | 1800 | 182JM | 89.5 | XH0034PJA | \$2231 |
| 5 | 3600 | 184JM | 88.5 | XH0052PJA | \$2461 |
| | 1800 | 184JM | 89.5 | XH0054PJA | \$2364 |
| 7.5 | 3600 | 213JM | 89.5 | XHY752PJA | \$4071 |
| | 1800 | 213JM | 91.7 | XHY754PJA | \$3924 |
| 10 | 3600 | 215JM | 90.2 | XH0102PJA | \$4434 |
| | 1800 | 215JM | 91.7 | XH0104PJA | \$4292 |



**Totally Enclosed Fan Cooled - Washdown Duty
Single Phase Motors – Standard Efficient
Foot Mounted 60Hz. – 115/230 Volt**

| HP | RPM | Frame | Model Number | List Price |
|-----|------|-------|--------------|------------|
| 1/2 | 1800 | 56 | SBY054PFW | \$ 862 |
| 3/4 | 1800 | 56 | SBY074PFW | \$ 912 |
| 1 | 1800 | 56 | SB0014PFW | \$ 936 |

**Totally Enclosed Fan Cooled - Washdown Duty
Single Phase Motors – Standard Efficient
C-Face Footless 60Hz. – 115/230 Volt**

| HP | RPM | Frame | Model Number | List Price |
|-----|------|-------|--------------|------------|
| 1/2 | 1800 | 56 | SBY054PCW | \$ 862 |
| 3/4 | 1800 | 56 | SBY074PCW | \$ 974 |



**Totally Enclosed Fan Cooled - Washdown Duty
Single Phase Motors – Standard Efficient
C-Face Foot Mounted 60Hz. – 115/230 Volt**

| HP | RPM | Frame | Model Number | List Price |
|-----|------|-------|--------------|------------|
| 1/2 | 1800 | 56 | SBY054PHW | \$ 868 |
| 3/4 | 1800 | 56 | SBY074PHW | \$ 974 |
| 1 | 1800 | 56 | SB0014PHW | \$ 996 |

**Totally Enclosed Fan Cooled - Washdown Duty
Single Phase Motors – Standard Efficient
C-Face Footless Jet Pump 60Hz. – 115/230 Volt**

| HP | RPM | Frame | Model Number | List Price |
|-----|------|-------|--------------|------------|
| 3/4 | 3600 | 56J | SBY072PJW | \$1070 |
| 1.5 | 3600 | 56J | SBY152PJW | \$1092 |

Cast Iron Conduit Boxes

Parts include diagonally split conduit box, gasket and mounting hardware.



| Motor Frame | Model Number | List Price |
|-------------|--------------|------------|
| 140T | J14CITBK | \$ 58 |
| 180T | J14CITBK | \$ 58 |
| 210T | E21CITBK | \$ 78 |
| 250T | E25CITBK | \$162 |
| 280T | E28CITBK | \$188 |
| 320T | E32CITBK | \$240 |
| 360T | E36CITBK | \$260 |
| 400T | E40CITBK | \$260 |
| 440T | E44CITBK | \$300 |

Drip Cover (Canopy)

Parts consist of fan guard with Drip Cover. Existing hardware is utilized for mounting.



| Motor Frame | Model Number | List Price |
|-------------|--------------|------------|
| 140T | J140CICK | \$156 |
| 180T | J180CICK | \$164 |
| 210T | EH21CICK | \$240 |
| 250T | E250CICK | \$280 |
| 280T | E280CICK | \$396 |
| 320T | E320CICK | \$430 |

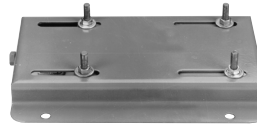
Cast Iron Fan Guards

Parts consist of fan guard. Existing hardware is utilized for mounting.



| Motor Frame | Model Number | List Price |
|-------------|--------------|------------|
| 140T | J140CIFG | \$ 98 |
| 180T | J180CIFG | \$ 98 |
| 210T | EH21CIFG | \$142 |
| 250T | E250CIFG | \$188 |
| 280T | E280CIFG | \$256 |
| 320T | E320CIFG | \$360 |
| 360T | E360CIFG | \$396 |
| 400T | E400CIFG | \$670 |
| 440T | E440CIFG | \$978 |

Adjustable Motor Bases



| Motor Frame | Model Number | List Price |
|-------------|--------------|------------|
| 143T | 49950143 | \$ 58 |
| 145T | 49950145 | \$ 58 |
| 182T | 49950182 | \$ 66 |
| 184T | 49950184 | \$ 66 |
| 213T | 49950213 | \$ 86 |
| 215T | 49950215 | \$ 86 |
| 254T | 49950254 | \$146 |
| 256T | 49950256 | \$146 |
| 284T | 49950284 | \$160 |
| 286T | 49950286 | \$160 |
| 324T | 49950324 | \$216 |
| 326T | 49950326 | \$216 |
| 364T | 49950364 | \$272 |
| 365T | 49950365 | \$272 |
| 404T | 49950404 | \$404 |
| 405T | 49950405 | \$404 |
| 444T | 49950444 | \$504 |
| 445T | 49950445 | \$504 |

TEFC C-Face (Standard) Brackets

Parts consist of C-Face Bracket. Existing hardware is utilized for mounting.



| Motor Frame | Model Number | List Price |
|-------------|---------------|------------|
| 140T | J or E140CBKT | \$102 |
| 180T | J or E180CBKT | \$132 |
| 210T | EH21CBKT | \$158 |
| 250T | E250CBKT | \$252 |
| 280T | E280CBKT | \$376 |
| 320T | E320CBKT | \$602 |

TEFC C-Face (Locked Bearing) Brackets

Parts consist of C-Face Bracket, Bearing Clamp and Clamp mounting hardware.



| Motor Frame | Model Number | List Price |
|-------------|---------------|------------|
| 140T | J or E140TCLB | \$128 |
| 180T | J or E180TCLB | \$158 |
| 210T | EH21TCLB | \$178 |
| 250T | E250TCLB | \$286 |
| 280T | E280TCLB | \$416 |
| 320T | E320TCLB | \$636 |
| 360TS | E36TCLB2 | \$690 |
| 360T | E36TCLB4 | \$690 |
| 400T | E40TCLB4 | \$1060 |
| 440T | E44TCLB4 | \$1300 |

Conversion Motor Bases

Converts NEMA "U" Frame Motors to current "T" Frame Mounting Dimensions.



| Converts Mounting | | Model Number | List Price |
|-------------------|----------|--------------|------------|
| From | To | | |
| 182/184 | 143/145T | 49951814 | \$ 54 |
| 213/215 | 182/184T | 49952118 | \$ 78 |
| 254/256U | 213/215T | 49952521 | \$ 90 |
| 284/286U | 254/256T | 49952825 | \$122 |
| 324/326U | 284/286T | 49953228 | \$162 |
| 364/365U | 324/326T | 49953632 | \$212 |
| 404/405U | 364/365T | 49954036 | \$284 |
| 444/445U | 404/405T | 49954440 | \$362 |

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Performance Data

Frame 56 and C-Face Footless (Frame 140-210TC) Models with Prefix DB, NB, RB, SB, XB

| HP | Full Load RPM | Frame | Full Load Amps @ 230V | Locked Rotor Amps @ 230V | EFFICIENCY | | | POWER FACTOR | | | F.L. Ft. Lbs. | Locked Rotor % | Break-Down % |
|-----|---------------|-------|-----------------------|--------------------------|------------|----------|----------|--------------|----------|----------|---------------|----------------|--------------|
| | | | | | Full Load | 3/4 Load | 1/2 Load | Full Load | 3/4 Load | 1/2 Load | | | |
| .33 | 1730 | 56C | 1.36 | 7.2 | 70.0 | 66.0 | 61.0 | 65.0 | 55.0 | 44.0 | 1.01 | 220 | 300 |
| .50 | 3460 | 56C | 1.50 | 11.4 | 73.0 | 69.7 | 62.8 | 85.5 | 79.8 | 70.0 | 1.52 | 250 | 350 |
| | 1730 | 56C | 1.70 | 11.5 | 80.0 | 79.8 | 75.0 | 69.0 | 59.0 | 46.0 | 1.50 | 270 | 360 |
| | 1170 | 56C | 2.00 | 8.20 | 74.0 | 73.5 | 68.4 | 65.4 | 56.0 | 43.0 | 2.32 | 170 | 250 |
| .75 | 3460 | 56C | 2.20 | 18.0 | 74.0 | 72.8 | 66.6 | 85.0 | 78.4 | 68.0 | 1.12 | 250 | 350 |
| | 1730 | 56C | 2.20 | 14.0 | 81.5 | 80.9 | 77.9 | 78.7 | 71.0 | 59.1 | 2.26 | 230 | 320 |
| | 1170 | 56C | 3.20 | 13.0 | 74.0 | 71.4 | 66.0 | 58.0 | 51.0 | 40.0 | 3.47 | 200 | 280 |
| 1 | 3445 | 56C | 3.10 | 19.0 | 71.0 | 67.5 | 60.0 | 83.0 | 77.0 | 66.0 | 1.51 | 240 | 250 |
| | 1720 | 56C | 3.30 | 21.0 | 79.0 | 77.4 | 73.5 | 72.9 | 63.0 | 49.0 | 3.00 | 250 | 330 |
| | 1720 | 143TC | 3.00 | 25.0 | 82.5 | 82.0 | 79.5 | 75.4 | 66.6 | 53.5 | 3.00 | 250 | 380 |
| 1.5 | 3460 | 56C | 4.30 | 28.0 | 74.0 | 72.0 | 66.0 | 88.0 | 83.4 | 73.3 | 2.27 | 220 | 280 |
| | 1720 | 56C | 4.50 | 28.5 | 80.5 | 79.5 | 73.7 | 78.0 | 69.0 | 54.0 | 4.52 | 250 | 300 |
| | 1720 | 145TC | 4.50 | 35.0 | 84.0 | 83.0 | 79.0 | 76.6 | 69.0 | 54.0 | 4.51 | 280 | 350 |
| 2 | 3460 | 56C | 5.80 | 43.1 | 78.0 | 76.0 | 70.0 | 82.0 | 76.4 | 65.0 | 3.02 | 220 | 320 |
| | 1735 | 56C | 6.00 | 45.0 | 82.0 | 80.5 | 78.0 | 77.0 | 68.0 | 54.0 | 6.10 | 250 | 330 |
| | 1735 | 145TC | 5.60 | 40.5 | 84.0 | 83.8 | 83.5 | 85.6 | 77.9 | 64.0 | 6.10 | 200 | 300 |
| 3 | 1745 | 182TC | 8.00 | 62.0 | 87.5 | 86.8 | 84.0 | 81.3 | 74.5 | 63.5 | 8.97 | 220 | 300 |
| 5 | 1745 | 184TC | 13.4 | 111 | 87.5 | 87.2 | 85.0 | 80.4 | 74.0 | 62.5 | 14.94 | 250 | 350 |
| 7.5 | 1725 | 213TC | 19.6 | 134 | 89.5 | 89.5 | 88.5 | 79.9 | 73.7 | 62.0 | 22.26 | 200 | 300 |
| 10 | 1735 | 215TC | 25.8 | 190 | 89.5 | 89.6 | 89.0 | 81.0 | 74.9 | 63.6 | 29.86 | 200 | 300 |

EISA 2007 NEMA Premium Efficient Models with Prefix DH or XH

| HP | Full Load RPM | Frame | Full Load Amps @ 230V | Locked Rotor Amps @ 230V | EFFICIENCY | | | POWER FACTOR | | | F.L. Ft. Lbs. | Locked Rotor % | Break-Down % |
|-----|---------------|---------|-----------------------|--------------------------|------------|----------|----------|--------------|----------|----------|---------------|----------------|--------------|
| | | | | | Full Load | 3/4 Load | 1/2 Load | Full Load | 3/4 Load | 1/2 Load | | | |
| 1 | 1800 | 143T/TC | 3.0 | 23.2 | 85.5 | 84.0 | 80.1 | 76.2 | 67.6 | 54.0 | 3.00 | 250 | 360 |
| 1.5 | 3600 | 143T/TC | 3.8 | 33.9 | 84.0 | 83.5 | 80.0 | 90.2 | 86.0 | 79.0 | 2.25 | 280 | 350 |
| | 1800 | 145T/TC | 4.2 | 33.5 | 86.5 | 86.1 | 83.0 | 81.0 | 73.4 | 60.5 | 4.51 | 230 | 340 |
| 2 | 3600 | 145T/TC | 5.0 | 50.0 | 85.5 | 84.5 | 80.5 | 84.7 | 77.0 | 66.0 | 6.00 | 250 | 350 |
| | 1800 | 145T/TC | 5.2 | 43.1 | 86.5 | 86.3 | 84.5 | 82.5 | 76.0 | 62.8 | 6.00 | 200 | 320 |
| 3 | 3600 | 182T/TC | 7.4 | 72.0 | 86.5 | 86.3 | 84.2 | 88.5 | 84.0 | 75.5 | 4.47 | 250 | 350 |
| | 1800 | 182T/TC | 7.8 | 62.0 | 89.5 | 87.5 | 85.5 | 81.3 | 74.5 | 63.5 | 8.97 | 220 | 300 |
| 5 | 3600 | 184T/TC | 11.6 | 101 | 88.5 | 87.9 | 86.5 | 92.4 | 87.8 | 82.8 | 7.46 | 220 | 320 |
| | 1800 | 184T/TC | 13.2 | 104 | 89.5 | 89.0 | 85.8 | 80.4 | 74.0 | 62.5 | 14.9 | 250 | 350 |
| 7.5 | 3600 | 213T/TC | 17.2 | 142 | 89.5 | 89.0 | 87.2 | 92.1 | 92.0 | 88.7 | 11.2 | 200 | 300 |
| | 1800 | 213T/TC | 18.0 | 125 | 91.7 | 91.2 | 90.3 | 86.0 | 82.5 | 74.5 | 22.3 | 180 | 250 |
| 10 | 3600 | 215T/TC | 22.4 | 196 | 90.2 | 90.0 | 89.0 | 93.5 | 92.0 | 89.0 | 14.9 | 200 | 320 |
| | 1800 | 215T/TC | 24.4 | 176 | 91.7 | 91.3 | 90.0 | 84.8 | 79.4 | 70.5 | 29.7 | 180 | 280 |

Performance Data

EISA 2007 NEMA Premium Efficient – TEFC Enclosure

Models with Prefix JH or EH

| HP | Full Load RPM | Frame | Full Load Amps @ 230V | Locked Rotor Amps @ 230V | EFFICIENCY | | | POWER FACTOR | | | F.L. Ft. Lbs. | Locked Rotor % | Break-Down % |
|-----|---------------|---------|-----------------------|--------------------------|------------|----------|----------|--------------|----------|----------|---------------|----------------|--------------|
| | | | | | Full Load | 3/4 Load | 1/2 Load | Full Load | 3/4 Load | 1/2 Load | | | |
| 1 | 1730 | 143T/TC | 2.8 | 21 | 86.5 | 86.5 | 82.5 | 78.0 | 71.5 | 58.5 | 3 | 290 | 310 |
| | 1140 | 145T/TC | 3.4 | 21 | 84.0 | 84.2 | 80.0 | 66.0 | 58.0 | 45.5 | 4.6 | 255 | 300 |
| 1.5 | 3470 | 143T/TC | 3.8 | 32 | 85.5 | 85.5 | 83.5 | 88.5 | 84.0 | 75.5 | 2.3 | 250 | 310 |
| | 1730 | 145T/TC | 4.2 | 32 | 87.5 | 87.7 | 86.0 | 78.5 | 72.0 | 60.0 | 4.5 | 300 | 320 |
| | 1165 | 182T/TC | 4.8 | 35 | 87.5 | 87.8 | 85.5 | 68.0 | 60.0 | 46.0 | 6.8 | 270 | 280 |
| 2 | 3475 | 145T/TC | 5.0 | 48 | 86.5 | 86.8 | 85.5 | 89.0 | 86.0 | 77.0 | 3.0 | 250 | 315 |
| | 1730 | 145T/TC | 5.6 | 43 | 87.5 | 87.7 | 85.5 | 78.0 | 71.0 | 60.0 | 6.1 | 300 | 340 |
| | 1165 | 184T/TC | 5.8 | 46 | 88.5 | 88.7 | 86.5 | 73.0 | 65.5 | 53.0 | 9.0 | 250 | 310 |
| 3 | 3505 | 182T/TC | 7.2 | 64 | 88.5 | 88.7 | 87.0 | 90.0 | 87.0 | 80.0 | 4.5 | 210 | 290 |
| | 1745 | 182T/TC | 7.8 | 64 | 90.2 | 90.3 | 89.0 | 81.0 | 75.0 | 63.5 | 9.0 | 260 | 310 |
| | 1170 | 213T/TC | 8.6 | 60 | 89.5 | 89.7 | 87.0 | 75.0 | 66.5 | 53.0 | 13.5 | 240 | 300 |
| 5 | 3505 | 184T/TC | 11.6 | 92 | 90.2 | 90.5 | 89.0 | 90.5 | 88.0 | 81.0 | 7.5 | 210 | 300 |
| | 1745 | 184T/TC | 12.8 | 92 | 90.2 | 90.4 | 89.1 | 82.5 | 77.0 | 66.0 | 15.1 | 260 | 300 |
| | 1170 | 215T/TC | 13.8 | 92 | 89.5 | 89.8 | 87.5 | 78.0 | 71.0 | 60.0 | 22.5 | 240 | 300 |
| 7.5 | 3500 | 213T/TC | 18.0 | 127 | 90.2 | 90.5 | 89.5 | 88.0 | 85.5 | 79.0 | 11.3 | 200 | 270 |
| | 1750 | 213T/TC | 18.2 | 127 | 91.7 | 91.3 | 90.2 | 86.0 | 83.0 | 74.0 | 22.5 | 230 | 260 |
| | 1170 | 254T/TC | 20.2 | 127 | 91.7 | 92.0 | 91.5 | 77.0 | 72.0 | 61.5 | 33.7 | 200 | 240 |
| 10 | 3500 | 215T/TC | 23.0 | 162 | 91.7 | 91.9 | 90.5 | 89.0 | 87.0 | 83.5 | 15.0 | 220 | 270 |
| | 1750 | 215T/TC | 23.8 | 162 | 91.7 | 91.9 | 90.5 | 87.0 | 84.0 | 75.0 | 30.0 | 225 | 255 |
| | 1170 | 256T/TC | 26.4 | 162 | 91.7 | 92.1 | 91.7 | 79.0 | 74.5 | 65.0 | 44.9 | 200 | 240 |
| 15 | 3510 | 254T/TC | 34.6 | 232 | 91.0 | 91.0 | 90.2 | 91.0 | 90.0 | 86.0 | 22.5 | 210 | 270 |
| | 1760 | 254T/TC | 37.0 | 232 | 92.4 | 92.7 | 92.5 | 83.0 | 80.0 | 72.5 | 44.8 | 210 | 230 |
| | 1170 | 284T/TC | 38.8 | 232 | 92.4 | 92.6 | 91.3 | 80.0 | 75.5 | 66.3 | 67.3 | 210 | 230 |
| 20 | 3510 | 256T/TC | 46.0 | 290 | 91.0 | 91.4 | 90.5 | 91.0 | 90.0 | 87.5 | 29.9 | 210 | 280 |
| | 1760 | 256T/TC | 49.0 | 290 | 93.0 | 93.4 | 91.5 | 83.5 | 79.5 | 71.5 | 59.7 | 220 | 235 |
| | 1170 | 286T/TC | 51.0 | 290 | 92.4 | 92.8 | 91.5 | 81.0 | 78.0 | 70.0 | 89.8 | 210 | 225 |
| 25 | 3520 | 284TS | 57.4 | 365 | 91.7 | 91.7 | 91.4 | 90.5 | 90.0 | 87.0 | 37.3 | 230 | 250 |
| | 1765 | 284T | 60.0 | 365 | 93.6 | 93.8 | 93.2 | 84.0 | 81.0 | 73.0 | 74.4 | 200 | 220 |
| | 1175 | 324T | 60.4 | 365 | 93.0 | 93.1 | 92.2 | 85.0 | 81.0 | 71.0 | 111.8 | 210 | 250 |
| 30 | 3525 | 286TS | 68.2 | 435 | 92.4 | 92.7 | 91.7 | 91.0 | 90.0 | 87.0 | 44.7 | 235 | 260 |
| | 1765 | 286T | 72.0 | 435 | 93.6 | 93.9 | 92.5 | 84.0 | 81.5 | 75.0 | 89.3 | 200 | 230 |
| | 1175 | 326T | 72.0 | 435 | 93.0 | 93.3 | 92.5 | 85.5 | 81.5 | 72.0 | 134.1 | 215 | 255 |
| 40 | 3530 | 324TS | 93.4 | 580 | 93.0 | 93.3 | 92.4 | 88.0 | 87.0 | 83.0 | 59.5 | 180 | 240 |
| | 1770 | 324T | 94.8 | 580 | 95.0 | 95.3 | 94.4 | 84.5 | 82.0 | 76.0 | 118.7 | 200 | 215 |
| | 1180 | 364T | 96.0 | 580 | 94.5 | 94.7 | 93.7 | 84.0 | 82.0 | 75.0 | 178.1 | 200 | 220 |
| 50 | 3550 | 326TS | 114 | 725 | 93.6 | 93.8 | 92.5 | 88.5 | 87.0 | 83.0 | 74.4 | 180 | 240 |
| | 1770 | 326T | 118. | 725 | 95.0 | 95.6 | 94.5 | 84.5 | 82.5 | 75.0 | 148.4 | 200 | 220 |
| | 1180 | 365T | 120 | 725 | 94.5 | 94.8 | 94.3 | 84.0 | 83.0 | 75.5 | 222.6 | 200 | 230 |
| 60 | 3565 | 364TS | 136 | 870 | 94.1 | 94.3 | 93.5 | 89.0 | 86.0 | 80.5 | 88.5 | 160 | 220 |
| | 1770 | 364T | 143 | 870 | 95.0 | 95.2 | 94.3 | 84.0 | 81.0 | 78.0 | 178.0 | 200 | 240 |
| | 1180 | 404T | 148 | 870 | 95.0 | 95.1 | 94.3 | 82.0 | 79.5 | 72.0 | 267.1 | 200 | 240 |
| 75 | 3565 | 365TS | 168 | 1085 | 94.5 | 94.6 | 93.5 | 89.0 | 87.5 | 83.5 | 110.6 | 160 | 220 |
| | 1770 | 365T | 180 | 1085 | 95.4 | 95.3 | 94.5 | 84.0 | 81.4 | 75.5 | 222.6 | 200 | 240 |
| | 1180 | 405T | 181 | 1085 | 95.0 | 95.3 | 94.5 | 83.0 | 80.5 | 73.0 | 333.8 | 200 | 240 |
| 100 | 3540 | 405TS | 228 | 1450 | 94.5 | 94.5 | 93.4 | 88.0 | 87.0 | 82.5 | 148.4 | 160 | 240 |
| | 1775 | 405T | 240 | 1450 | 95.4 | 95.3 | 93.5 | 83.0 | 78.0 | 67.0 | 295.9 | 200 | 250 |
| | 1180 | 444T | 242 | 1450 | 95.0 | 95.1 | 94.2 | 82.5 | 80.5 | 73.0 | 445.1 | 200 | 250 |
| 125 | 3550 | 444TS | 290 | 1815 | 95.0 | 94.7 | 93.5 | 86.5 | 84.5 | 77.0 | 184.9 | 160 | 220 |
| | 1775 | 444T | 286 | 1815 | 95.8 | 96.0 | 95.0 | 87.0 | 85.0 | 81.0 | 369.9 | 180 | 230 |
| | 1180 | 445T | 300 | 1815 | 95.4 | 95.7 | 94.5 | 83.0 | 81.0 | 74.0 | 556.4 | 200 | 240 |
| 150 | 3550 | 445TS | 346 | 2170 | 95.0 | 94.6 | 93.6 | 87.0 | 84.5 | 78.0 | 221.9 | 160 | 220 |
| | 1780 | 445T | 338 | 2170 | 95.8 | 96.0 | 95.1 | 88.0 | 87.0 | 83.0 | 442.6 | 180 | 230 |
| | 1180 | 447T | 356 | 2170 | 95.8 | 96.0 | 95.1 | 83.5 | 81.0 | 73.5 | 667.7 | 200 | 240 |
| 200 | 3560 | 447TS | 228 | 1450 | 95.4 | 95.0 | 93.7 | 87.5 | 85.5 | 79.0 | 295.1 | 160 | 220 |
| | 1785 | 447T | 220 | 1450 | 96.2 | 96.4 | 95.5 | 89.0 | 87.5 | 83.0 | 590.1 | 180 | 230 |
| | 1185 | 449T | 234 | 1450 | 95.8 | 95.9 | 95.0 | 84.0 | 82.0 | 75.0 | 887.3 | 190 | 210 |

Performance Data

EISA 2007 NEMA Premium Efficient – Open Dripproof Enclosure

Models with Prefix JH or EH

| HP | Full Load RPM | Frame | Full Load Amps @ 230V | Locked Rotor Amps @ 230V | EFFICIENCY | | | POWER FACTOR | | | F.L. Ft. Lbs. | Locked Rotor % | Break-Down % |
|-----|---------------|-------|-----------------------|--------------------------|------------|----------|----------|--------------|----------|----------|---------------|----------------|--------------|
| | | | | | Full Load | 3/4 Load | 1/2 Load | Full Load | 3/4 Load | 1/2 Load | | | |
| 1 | 1720 | 143T | 3.0 | 23 | 84.0 | 84.0 | 80.0 | 79.0 | 71.0 | 59.0 | 3.05 | 280 | 320 |
| | 1140 | 145T | 3.8 | 25 | 81.5 | 81.5 | 78.0 | 63.0 | 53.0 | 41.0 | 4.61 | 300 | 330 |
| 1.5 | 3420 | 143T | 4.2 | 35 | 82.5 | 82.7 | 80.0 | 83.0 | 79.0 | 67.0 | 2.30 | 250 | 310 |
| | 1720 | 145T | 4.2 | 35 | 85.5 | 85.7 | 83.5 | 80.0 | 73.0 | 60.0 | 4.58 | 260 | 310 |
| 2 | 1160 | 182T | 5.2 | 35 | 85.5 | 85.7 | 83.2 | 64.0 | 56.5 | 44.0 | 6.79 | 260 | 310 |
| | 3420 | 145T | 5.4 | 48 | 84.0 | 84.0 | 82.5 | 85.0 | 80.5 | 69.0 | 3.07 | 240 | 300 |
| | 1720 | 145T | 5.4 | 42 | 86.5 | 86.7 | 84.1 | 81.0 | 75.5 | 64.0 | 6.09 | 250 | 300 |
| 3 | 1160 | 184T | 6.8 | 45 | 86.5 | 86.5 | 84.5 | 65.0 | 57.0 | 45.0 | 9.06 | 250 | 300 |
| | 3425 | 182T | 7.8 | 64 | 85.5 | 85.7 | 84.7 | 86.5 | 81.5 | 70.5 | 4.60 | 230 | 290 |
| | 1725 | 182T | 8.0 | 60 | 87.5 | 88.0 | 86.7 | 81.0 | 76.0 | 65.0 | 9.13 | 240 | 280 |
| 5 | 1160 | 213T | 8.9 | 55 | 88.5 | 88.5 | 86.8 | 73.0 | 68.0 | 55.0 | 13.6 | 240 | 270 |
| | 3500 | 184T | 12.6 | 92 | 88.5 | 88.7 | 87.5 | 86.0 | 82.0 | 72.0 | 7.5 | 230 | 290 |
| | 1725 | 184T | 13.2 | 92 | 88.5 | 89.0 | 87.5 | 82.0 | 78.0 | 67.0 | 15.2 | 240 | 300 |
| 7.5 | 1160 | 215T | 14.4 | 92 | 89.5 | 89.7 | 88.5 | 74.0 | 70.0 | 58.0 | 22.6 | 240 | 260 |
| | 3500 | 213T | 18.6 | 127 | 88.5 | 88.7 | 87.7 | 87.0 | 83.0 | 74.0 | 11.3 | 230 | 300 |
| | 1750 | 213T | 18.8 | 127 | 90.2 | 90.4 | 88.5 | 84.0 | 79.0 | 69.0 | 22.5 | 250 | 280 |
| 10 | 1170 | 254T | 20.4 | 127 | 91.7 | 91.9 | 90.6 | 76.0 | 70.0 | 60.0 | 33.7 | 200 | 250 |
| | 3500 | 215T | 24.8 | 162 | 89.5 | 90.0 | 88.2 | 86.0 | 83.2 | 76.0 | 15.0 | 215 | 265 |
| | 1750 | 215T | 25.0 | 162 | 90.2 | 90.7 | 88.6 | 85.0 | 80.5 | 71.0 | 30.0 | 250 | 285 |
| 15 | 1170 | 256T | 26.6 | 162 | 91.7 | 92.0 | 90.8 | 78.0 | 74.0 | 64.0 | 44.9 | 200 | 250 |
| | 3500 | 215T | 36.8 | 232 | 90.2 | 90.5 | 89.6 | 86.5 | 84.0 | 77.0 | 22.5 | 210 | 260 |
| | 1765 | 254T | 38.2 | 232 | 92.4 | 92.8 | 91.7 | 81.5 | 77.0 | 68.0 | 44.7 | 220 | 265 |
| 20 | 1175 | 284T | 40.0 | 232 | 92.4 | 92.7 | 91.8 | 79.0 | 75.0 | 63.5 | 67.1 | 200 | 230 |
| | 3515 | 254T | 47.2 | 290 | 91.0 | 91.4 | 89.5 | 89.0 | 87.5 | 82.5 | 29.9 | 200 | 245 |
| | 1765 | 256T | 50.0 | 290 | 93.0 | 93.4 | 92.5 | 82.0 | 78.5 | 70.0 | 59.5 | 220 | 260 |
| 25 | 1175 | 286T | 51.6 | 290 | 92.4 | 92.7 | 91.9 | 80.0 | 78.0 | 68.0 | 89.4 | 200 | 240 |
| | 3520 | 256T | 58.0 | 365 | 91.7 | 92.1 | 91.3 | 90.0 | 88.7 | 84.0 | 37.3 | 200 | 240 |
| | 1765 | 284T | 62.0 | 365 | 93.0 | 93.3 | 92.5 | 83.0 | 80.0 | 71.0 | 74.4 | 210 | 235 |
| 30 | 1175 | 324T | 61.0 | 365 | 92.4 | 92.8 | 91.5 | 85.5 | 82.0 | 73.6 | 112 | 210 | 240 |
| | 3540 | 284TS | 70.8 | 435 | 92.4 | 92.7 | 91.5 | 87.5 | 86.0 | 81.5 | 44.5 | 180 | 220 |
| | 1765 | 286T | 72.4 | 435 | 93.6 | 94.0 | 92.8 | 84.5 | 81.0 | 73.0 | 89.3 | 220 | 240 |
| 40 | 1175 | 326T | 71.4 | 435 | 93.0 | 93.3 | 92.7 | 86.0 | 82.5 | 74.0 | 134 | 200 | 235 |
| | 3540 | 286TS | 94.0 | 580 | 92.4 | 92.8 | 91.6 | 88.0 | 86.3 | 82.0 | 59.4 | 180 | 225 |
| | 1770 | 324T | 97.0 | 580 | 94.1 | 94.5 | 93.7 | 83.0 | 80.0 | 72.0 | 119 | 200 | 220 |
| 50 | 1180 | 364T | 98.4 | 580 | 94.1 | 94.3 | 93.1 | 82.5 | 79.5 | 70.0 | 178 | 200 | 230 |
| | 3545 | 324TS | 118 | 725 | 93.6 | 93.6 | 92.9 | 86.5 | 85.5 | 81.0 | 74.1 | 180 | 220 |
| | 1770 | 326T | 121 | 725 | 94.1 | 94.5 | 93.8 | 83.5 | 82.0 | 75.0 | 149 | 200 | 220 |
| 60 | 1180 | 365T | 123 | 725 | 94.1 | 94.4 | 93.3 | 82.5 | 80.0 | 70.0 | 223 | 200 | 230 |
| | 3555 | 326TS | 140 | 870 | 94.1 | 94.1 | 92.0 | 87.0 | 84.0 | 79.0 | 88.7 | 180 | 210 |
| | 1775 | 364T | 142 | 870 | 94.5 | 94.7 | 93.5 | 84.0 | 80.0 | 73.0 | 178 | 200 | 240 |
| 75 | 1185 | 404T | 146 | 870 | 95.0 | 95.1 | 94.0 | 82.0 | 79.0 | 73.0 | 266 | 215 | 230 |
| | 3560 | 364TS | 170 | 1085 | 94.1 | 94.1 | 92.0 | 88.0 | 85.0 | 79.5 | 111 | 160 | 220 |
| | 1775 | 365T | 176 | 1085 | 95.0 | 95.2 | 94.0 | 85.0 | 80.5 | 74.5 | 222 | 200 | 250 |
| 100 | 1185 | 405T | 184 | 1085 | 94.5 | 94.6 | 93.8 | 82.0 | 78.0 | 71.0 | 333 | 210 | 220 |
| | 3565 | 365TS | 226 | 1450 | 95.0 | 95.1 | 93.5 | 88.0 | 85.0 | 79.0 | 148 | 160 | 220 |
| | 1775 | 404T | 230 | 1450 | 95.0 | 95.3 | 94.2 | 86.0 | 83.5 | 77.0 | 196 | 200 | 240 |
| 125 | 1185 | 444T | 240 | 1450 | 95.4 | 95.6 | 94.5 | 82.5 | 79.5 | 74.0 | 444 | 200 | 230 |
| | 3560 | 404TS | 284 | 1815 | 94.5 | 94.6 | 92.8 | 87.5 | 85.0 | 81.0 | 185 | 160 | 220 |
| | 1775 | 405T | 287 | 1815 | 95.4 | 95.6 | 94.4 | 86.0 | 83.5 | 77.0 | 370 | 180 | 220 |
| 150 | 1185 | 445T | 303 | 1815 | 94.1 | 94.3 | 93.0 | 82.5 | 80.0 | 75.0 | 555 | 170 | 225 |
| | 3555 | 405TS | 338 | 2170 | 95.0 | 95.0 | 93.5 | 88.0 | 86.0 | 81.5 | 222 | 160 | 230 |
| | 1780 | 444T | 343 | 2170 | 95.4 | 95.5 | 94.5 | 86.5 | 84.0 | 78.0 | 443 | 180 | 240 |
| 200 | 1185 | 445T | 358 | 2170 | 95.0 | 95.3 | 93.6 | 83.0 | 80.0 | 74.0 | 666 | 170 | 220 |
| | 3560 | 444TS | 225* | 1450 | 95.0 | 95.0 | 93.4 | 88.0 | 86.0 | 82.0 | 295 | 170 | 235 |
| | 1780 | 445T | 228* | 1450 | 95.4 | 95.5 | 94.3 | 86.5 | 84.5 | 79.0 | 591 | 180 | 225 |

* 460 Volt Only

Inverter Rated Motors

In many instances, Sterling Electric's Premium Efficient NEMA design "B" motor is suitable for applications using solid state, variable frequency, variable voltage controllers (Inverters). To properly select a motor and the proper controller for an application, requires several pieces of information.

| | |
|----------------------------------|--|
| Type of Load: | Variable torque, constant torque, constant horsepower |
| Speed Variation Required: | High speed/low speed |
| Starting Torque Required: | Applications requiring NEMA design "C" high starting torque may need a special motor and controller design |
| Duty Cycle: | Hours per day, number of starts and stops, run time at low speeds |
| Over Hauling Loads: | Can the motor be driven (by the load) above synchronous speed, or in reverse direction ? |
| Coupling Method: | Direct coupled, sprocket, sheave, pinion/gear |

Most variable torque applications with speed ranges of 10:1 (60Hz – 6 Hz), constant torque applications with speed ranges of 7:1 (60Hz – 8.5 Hz) or less, both with inverters that do not produce excessive peak voltages can be serviced by a Premium Efficient Sterling motor -- open dripproof or totally enclosed fan cooled enclosure -- depending upon the location and environment.

Use of standard motors on variable frequency, variable voltage controllers should be limited as follows:

1. Maximum total line distance between the controller and motor is not to exceed 50 Feet.
2. Maximum switching (carrier) frequency of the control is not to exceed 8 kHz.

3600 – RPM motors operating at lower frequencies can become unstable, noisy, and produce "cogging".

Small motors, such as the above will require varying degrees of voltage "boost" or "forcing" in order to produce rated torque at low frequency operation. Refer to NEMA MG1-1998, Part 31.

Note: The use of standard Sterling motors on high switching frequency, IGBT type inverters may void the warranty relating to winding and possible bearing failures. Inverter duty motors are recommended.

DANGER: The maximum allowable speed for these motors is not to exceed the values shown in the table listed below. Operating the motors beyond this speed can cause severe damage to both equipment and personnel. Consult factory for applications that require motor speeds beyond the values listed in the table or larger frame sizes.

Sterling Rolled Steel frame and Stainless Steel frame motors (Model Prefixes NB, DB, SB, XB, DH or XH) can withstand dielectric stresses of 1600 volts, peak voltage terminal to terminal with maximum .5 V/ns dv/dt* rate of rise with no noticeable adverse effect on the insulation system life.

Sterling Cast Iron Frame Premium Efficient motors can withstand dielectric stresses of 1000 volts, peak voltage terminal to terminal with maximum .5 V/ns dv/dt* rate of rise with no noticeable adverse effect on the insulation system life.

Inverters producing peak transient voltages higher than 1000 volts or more rapid rates of rise (dv/dt) should be fitted with inductive damping filters, or a Sterling special inverter duty motor should be used. Refer to Factory for selection assistance.

| Frame | Poles | Nominal Speed @ 60Hz. | Maximum Allowable RPM | Frame | Poles | Nominal Speed @ 60Hz. | Maximum Allowable RPM |
|----------|-------|-----------------------|-----------------------|----------|-------|-----------------------|-----------------------|
| 143-215T | 4 | 1800 | 5000 | 324-365T | 4 | 1800 | 4000 |
| | 6 | 1200 | 4500 | | 6 | 1200 | 3500 |
| 284-286T | 4 | 1800 | 4000 | 404-449T | 4 | 1800 | 3500 |
| | 6 | 1200 | 4000 | | 6 | 1200 | 3000 |

Bearing Sizes

Series NB, DB or DH (TEFC Enclosure)

| Frame | Driven | Opp. Driven |
|-------|--------|-------------|
| 56 | 6205ZZ | 6204ZZ |
| 143T | 6205ZZ | 6204ZZ |
| 145T | 6205ZZ | 6204ZZ |
| 182T | 6306ZZ | 6206ZZ |
| 184T | 6306ZZ | 6206ZZ |
| 213T | 6308ZZ | 6306ZZ |
| 215T | 6308ZZ | 6306ZZ |

Series SB, XB, DB or DH Sterli-Seal® Washdown Duty

| Frame | Driven | Opp. Driven |
|-------|--------|-------------|
| 56 | 6205LL | 6204LL |
| 143T | 6205LL | 6204LL |
| 145T | 6205LL | 6204LL |
| 182T | 6306LL | 6206LL |
| 184T | 6306LL | 6206LL |
| 213T | 6308LL | 6306LL |
| 215T | 6308LL | 6306LL |

Series XB or XH Close Coupled Pump Sterli-Seal® Washdown Duty

| Frame | Driven | Opp. Driven |
|-------|--------|-------------|
| 143JM | 6206LL | 6204LL |
| 145JM | 6206LL | 6204LL |
| 182JM | 6207LL | 6206LL |
| 184JM | 6207LL | 6206LL |
| 213JM | 6309LL | 6306LL |
| 215JM | 6309LL | 6306LL |

Series EW or EH (ODP Enclosure)

| Frame | Driven | Opp. Driven |
|-------|--------|-------------|
| 143T | 6205ZZ | 6204ZZ |
| 145T | 6205ZZ | 6204ZZ |
| 182T | 6306ZZ | 6206ZZ |
| 184T | 6306ZZ | 6206ZZ |
| 213T | 6308ZZ | 6208ZZ |
| 215T | 6309ZZ | 6208ZZ |
| 254T | 6309ZZ | 6208ZZ |
| 256T | 6309ZZ | 6208ZZ |
| 284TS | 6311C3 | 6211C3 |
| 284T | 6312ZZ | 6211ZZ |
| 286TS | 6311C3 | 6211C3 |
| 286T | 6311ZZ | 6211ZZ |
| 324TS | 6312C3 | 6212C3 |
| 324T | 6313 | 6312 |
| 326TS | 6312C3 | 6312C3 |
| 326T | 6313 | 6212 |
| 364TS | 6312C3 | 6312C3 |
| 364T | 6314 | 6313 |
| 365TS | 6313C3 | 6313C3 |
| 365T | 6314 | 6313 |
| 404TS | 6313C3 | 6313C3 |
| 404T | 6317 | 6317 |
| 405T | NU317 | 6317 |
| 444T | NU318 | 6318 |

Series EW or EH (TEFC Enclosure)

| Frame | Driven | Opp. Driven |
|-------|--------|-------------|
| 143T | 6205ZZ | 6204ZZ |
| 145T | 6205ZZ | 6204ZZ |
| 182T | 6306ZZ | 6206ZZ |
| 184T | 6306ZZ | 6206ZZ |
| 213T | 6308ZZ | 6208ZZ |
| 215T | 6308ZZ | 6208ZZ |
| 254T | 6310ZZ | 6208ZZ |
| 256T | 6310ZZ | 6208ZZ |
| 284TS | 6310C3 | 6210C3 |
| 284T | 6310ZZ | 6210ZZ |
| 286TS | 6310C3 | 6210C3 |
| 286T | 6310ZZ | 6210ZZ |
| 324TS | 6312C3 | 6212C3 |
| 324T | 6312 | 6212 |
| 326TS | 6312C3 | 6312C3 |
| 326T | 6312 | 6212 |
| 364TS | 6312C3 | 6312C3 |
| 364T | NU215 | 6312 |
| 365TS | 6312C3 | 6313 |
| 365T | NU215 | 6312 |
| 405TS | 6313C3 | 6313C3 |
| 405T | NU218 | 6313 |
| 444TS | 6313C3 | 6313C3 |
| 444T | NU220 | 6315 |
| 445TS | 6313C3 | 6313C3 |
| 445T | NU220 | 6315 |
| 447TS | 6313C3 | 6313C3 |
| 447TZ | NU220 | 6315 |

CONNECTION INFORMATION OF STERLING 3-PHASE T-FRAME MOTORS
J AND E SERIES

ODP

| HP | 3600-RPM | | | | 1800-RPM | | | | 1200-RPM | | | |
|-----------|-----------------------|--------|-----------|--------|-----------------------|--------|-----------|--------|-----------------------|--------|-----------|--------|
| | ACROSS THE LINE START | | Y-Δ START | | ACROSS THE LINE START | | Y-Δ START | | ACROSS THE LINE START | | Y-Δ START | |
| | LOW V | HIGH V | LOW V | HIGH V | LOW V | HIGH V | LOW V | HIGH V | LOW V | HIGH V | LOW V | HIGH V |
| 0.75 - 3 | #1 | #2 | N/A | N/A | #1 | #2 | N/A | N/A | #1 | #2 | N/A | N/A |
| 5 | #1 | #2 | N/A | N/A | #1 | #2 | N/A | N/A | #1 | #2 | N/A | N/A |
| 7.5 | #1 | #2 | N/A | N/A | #1 | #2 | N/A | N/A | #1 | #2 | N/A | N/A |
| 10 - 150 | #3 | #4 | #6 | #7 | #3 | #4 | #6 | #7 | #3 | #4 | #6 | #7 |
| 200 | - | #8 | - | #9 | - | #8 | - | #9 | - | #8 | - | #9 |
| 250 | - | #8 | - | #9 | - | #8 | - | #9 | - | #8 | - | #9 |
| 300 - 400 | - | #10 | - | #11 | - | #8 | - | #9 | - | #8 | - | #9 |

TEFC

| HP | 3600-RPM | | | | 1800-RPM | | | | 1200-RPM | | | |
|-----------|-----------------------|--------|-----------|--------|-----------------------|--------|-----------|--------|-----------------------|--------|-----------|--------|
| | ACROSS THE LINE START | | Y-Δ START | | ACROSS THE LINE START | | Y-Δ START | | ACROSS THE LINE START | | Y-Δ START | |
| | LOW V | HIGH V | LOW V | HIGH V | LOW V | HIGH V | LOW V | HIGH V | LOW V | HIGH V | LOW V | HIGH V |
| 0.75-3 | #1 | #2 | N/A | N/A | #1 | #2 | N/A | N/A | #1 | #2 | N/A | N/A |
| 5 | #1 | #2 | N/A | N/A | #1 | #2 | N/A | N/A | #1 | #2 | N/A | N/A |
| 7.5 - 150 | #3 | #4 | #6 | #7 | #3 | #4 | #6 | #7 | #3 | #4 | #6 | #7 |
| 200 | - | #8 | - | #9 | - | #8 | - | #9 | - | #8 | - | #9 |
| 200 - 300 | - | #10 | - | #11 | - | #8 | - | #9 | - | #8 | - | #9 |

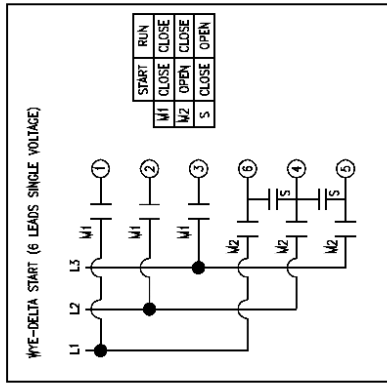
NOTE: FOR SINGLE VOLTAGE 575V UNITS WITH 6-LEADS, REFER TO CONNECTION #10.

CONNECTION INFORMATION OF STERLING 3-PHASE T-FRAME MOTORS
R, S, N, D AND X SERIES (TENV AND TEFC)

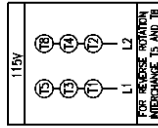
| HP | 3600-RPM | | | | 1800-RPM | | | | 1200-RPM | | | |
|-------------|-----------------------|--------|-----------|--------|-----------------------|--------|-----------|--------|-----------------------|--------|-----------|--------|
| | ACROSS THE LINE START | | Y-Δ START | | ACROSS THE LINE START | | Y-Δ START | | ACROSS THE LINE START | | Y-Δ START | |
| | LOW V | HIGH V | LOW V | HIGH V | LOW V | HIGH V | LOW V | HIGH V | LOW V | HIGH V | LOW V | HIGH V |
| 0.33 - 0.75 | #1 | #2 | N/A | N/A | #1 | #2 | N/A | N/A | #1 | #2 | N/A | N/A |
| 1 - 5 | #1 | #2 | N/A | N/A | #1 | #2 | N/A | N/A | #1 | #2 | N/A | N/A |
| 7.5 - 10 | #1 | #2 | N/A | N/A | #1 | #2 | N/A | N/A | #1 | #2 | N/A | N/A |

CONNECTION INFORMATION OF STERLING 1-PHASE T-FRAME MOTORS
S, N, D AND X SERIES (TENV AND TEFC)

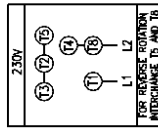
| HP | ALL SPEEDS | | |
|------------|-----------------|-----------------------|--------|
| | NUMBER OF LEADS | ACROSS THE LINE START | HIGH V |
| 0.25 - 1.5 | 6 | #12 | #13 |
| 0.25 - 1.5 | 7 | #14 | #15 |



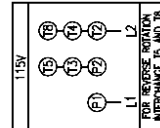
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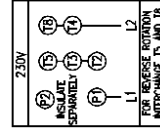
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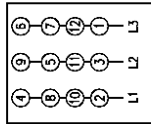
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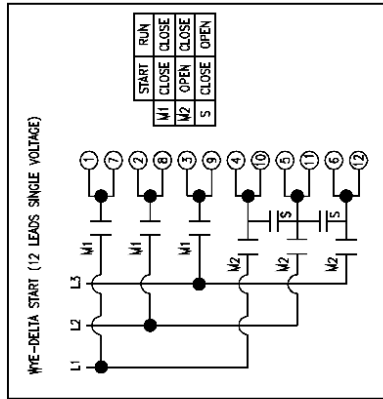
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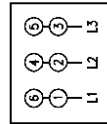
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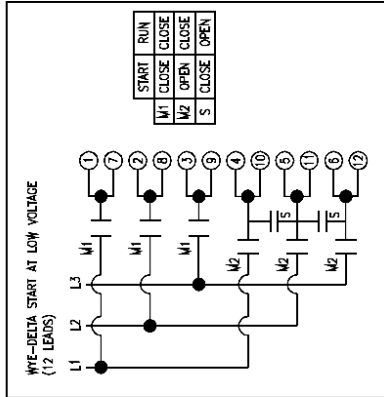
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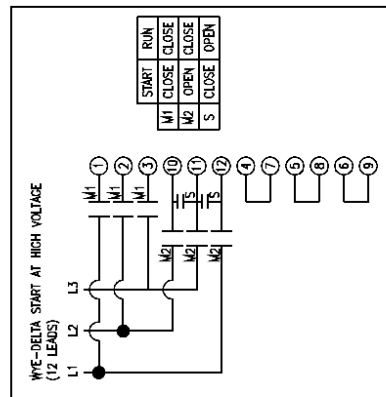
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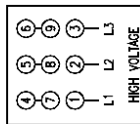
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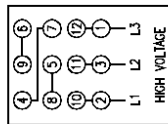
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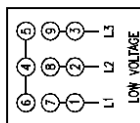
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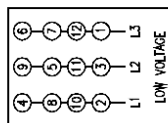
#1



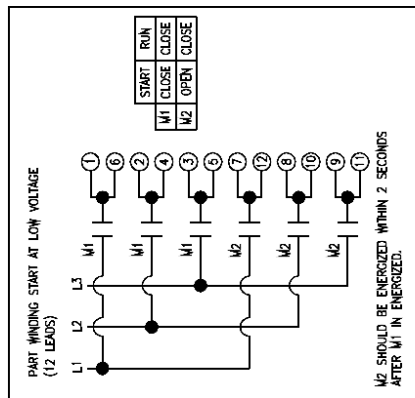
#4



#3



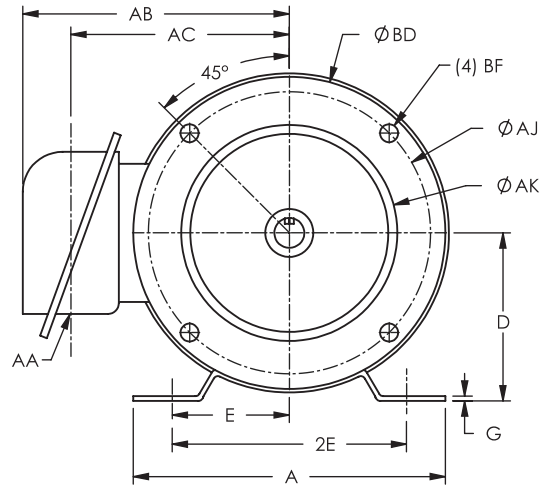
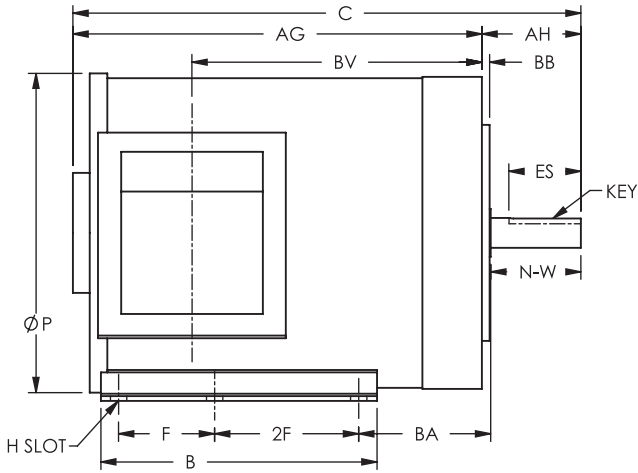
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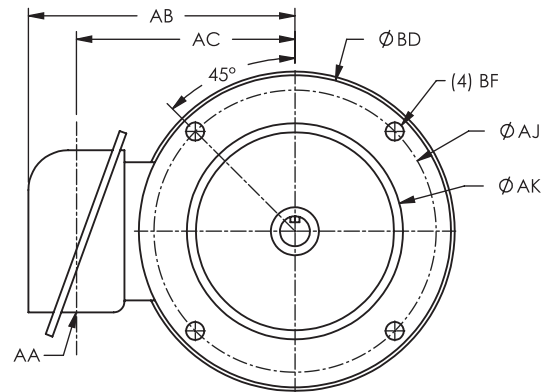
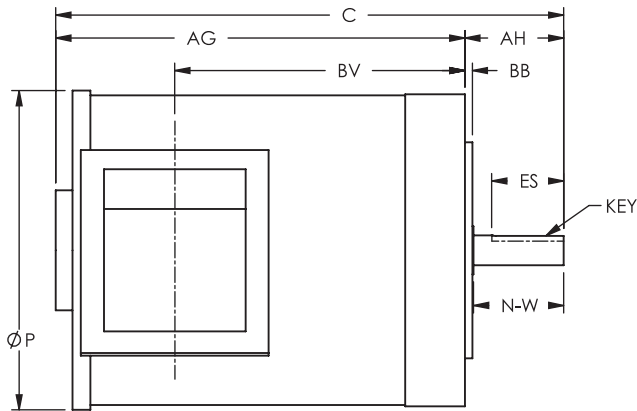
#5

C-FACE TENV ROLLED STEEL MOTORS

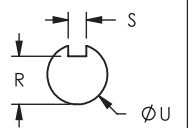
FOOTED



FOOTLESS



SHAFT DETAILS



| HP | RPM | FRAME | A | B | C | D | E | 2E | F* | 2F | G | H | N-W | P | R | S | U |
|------|--------------|-------|------|--------------|---------------|------|------|------|-----------|------|-----|-----------|------|------|------|------|------|
| 0.50 | 3600 1800 | 56C | 6.50 | 3.75 | 9.60 | 3.50 | 2.44 | 4.88 | - | 3.00 | .10 | .79 x .34 | 1.88 | 6.50 | .517 | .188 | .625 |
| 0.75 | 3600 1800 | 56C | 6.50 | 3.75 5.75 | 9.60 10.19 | 3.50 | 2.44 | 4.88 | - 2.00 | 3.00 | .10 | .79 x .34 | 1.88 | 6.50 | .517 | .188 | .625 |

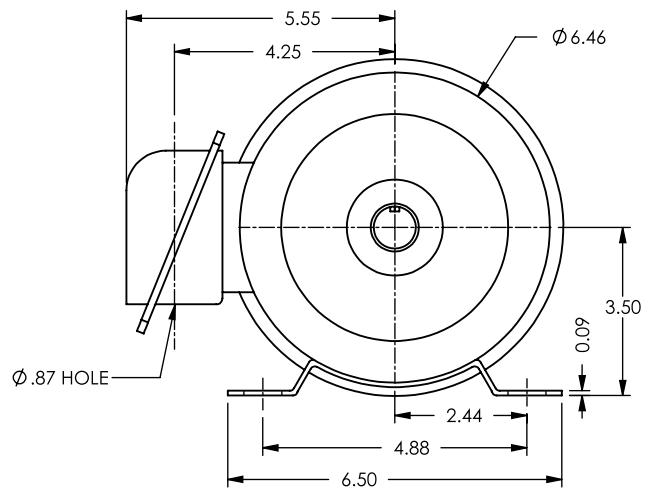
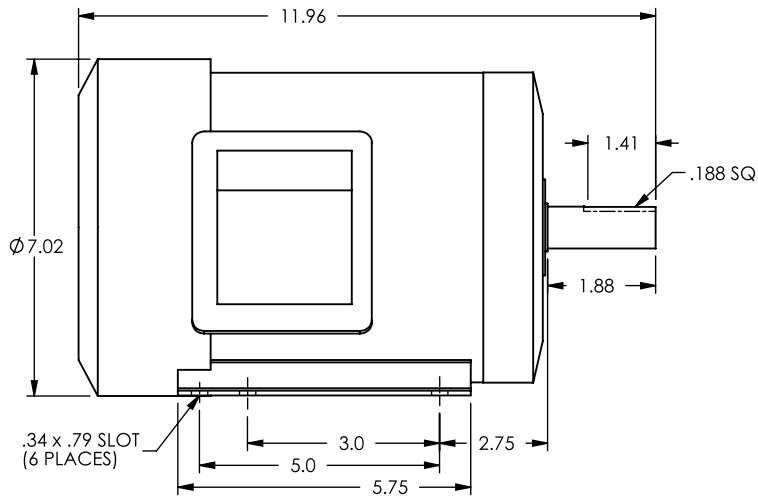
*Alternate mounting on same base.

| HP | RPM | FRAME | AA | AB | AC | AG | AH | AJ | AK | BA | BB | BD | BF | BV | ES |
|------|--------------|-------|-----|------|------|--------------|------|------|------|------|-----|------|--------|--------------|------|
| 0.50 | 3600 1800 | 56C | .87 | 5.53 | 4.25 | 7.54 | 2.06 | 5.88 | 4.50 | 2.75 | .16 | 6.50 | 3/8-16 | 5.06 | 1.41 |
| 0.75 | 3600 1800 | 56C | .87 | 5.53 | 4.25 | 7.54 8.13 | 2.06 | 5.88 | 4.50 | 2.75 | .16 | 6.50 | 3/8-16 | 5.06 5.65 | 1.41 |

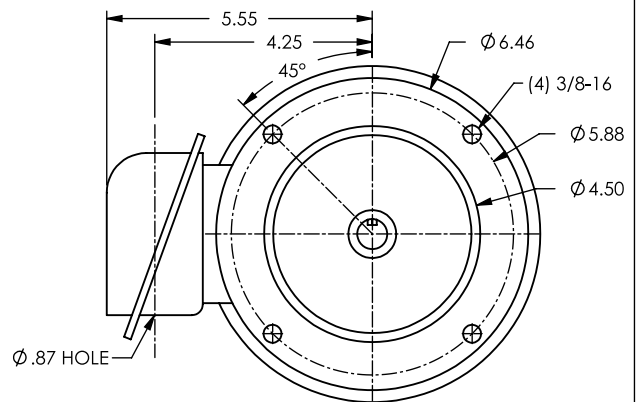
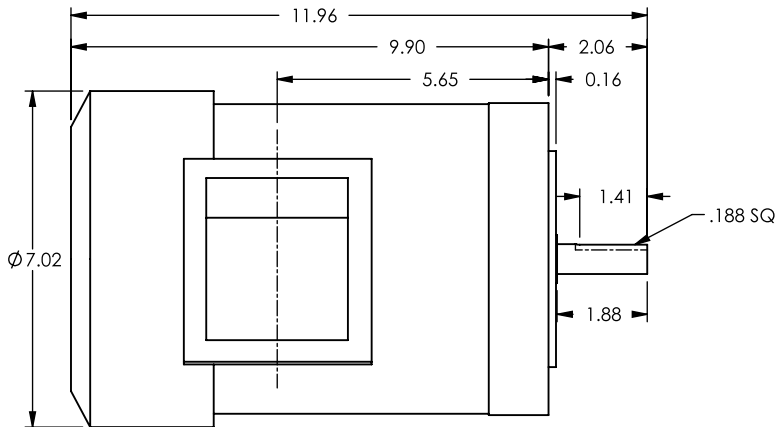
Dimensions subject to change without notice. Refer to factory for Certified drawing.

NB TEFC MODELS 56,56H, & 56C

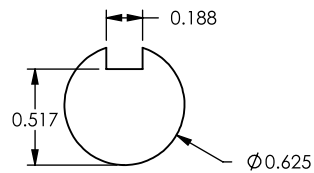
FOOTED



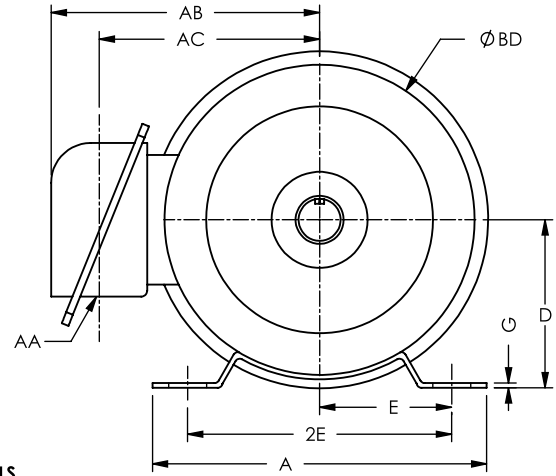
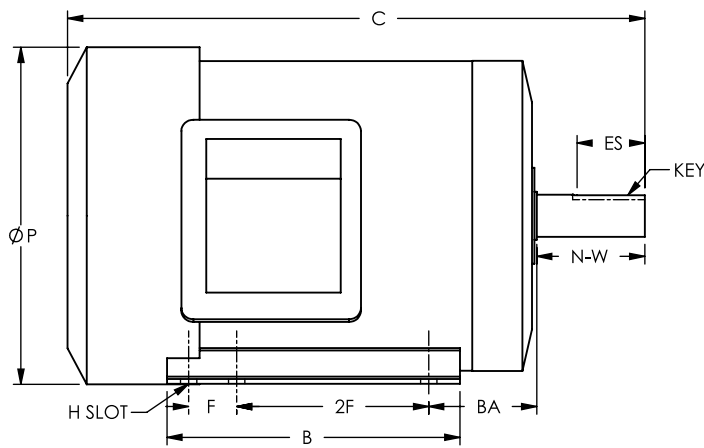
C-FACE FOOTLESS



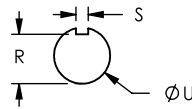
SHAFT DETAILS



DB TEFC ROLLED STEEL FOOTED MOTORS (143T-215T)



SHAFT DETAILS



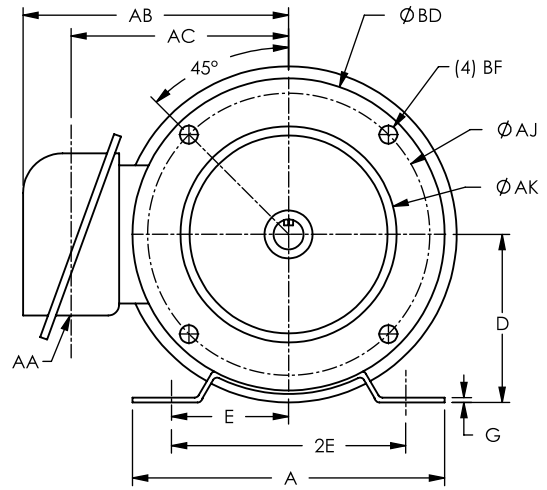
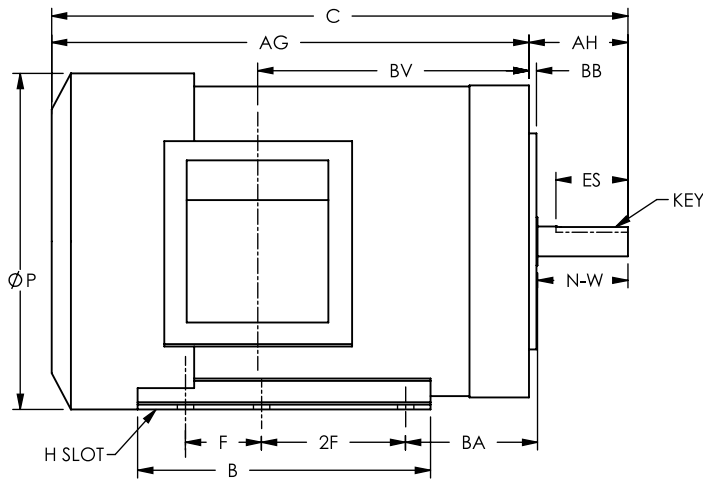
| HP | RPM | FRAME | A | B | C | D | E | 2E | F* | 2F | G | H | N-W | P | R | S | U |
|-----|------|-------|-------|------|-------|------|------|------|------|------|-----|-----------|------|-------|-------|------|-------|
| 1.0 | 1800 | 143TC | 6.96 | 6.10 | 12.02 | 3.50 | 2.75 | 5.50 | 1.00 | 4.00 | .10 | .79 x .34 | 2.25 | 7.02 | .771 | .188 | 0.875 |
| 1.5 | 1800 | 145TC | 6.96 | 6.10 | 12.42 | 3.50 | 2.75 | 5.50 | 1.00 | 4.00 | .10 | .79 x .34 | 2.25 | 7.02 | .771 | .188 | 0.875 |
| 2.0 | 1800 | 145TC | 6.96 | 6.10 | 13.00 | 3.50 | 2.75 | 5.50 | 1.00 | 4.00 | .10 | .79 x .34 | 2.25 | 7.02 | .771 | .188 | 0.875 |
| 3.0 | 1800 | 182TC | 8.82 | 6.50 | 15.58 | 4.50 | 3.75 | 7.50 | 1.00 | 4.50 | .15 | .71 x .47 | 2.75 | 8.45 | 0.986 | .250 | 1.125 |
| 5.0 | 1800 | 184TC | 8.82 | 6.50 | 16.17 | 4.50 | 3.75 | 7.50 | 1.00 | 4.50 | .15 | .71 x .47 | 2.75 | 8.45 | 0.986 | .250 | 1.125 |
| 7.5 | 1800 | 213TC | 10.32 | 7.32 | 17.92 | 5.25 | 4.25 | 8.50 | - | 5.50 | .20 | .71 x .47 | 3.38 | 10.77 | 1.201 | .31 | 1.375 |
| 10 | 1800 | 215TC | 10.32 | 7.32 | 19.10 | 5.25 | 4.25 | 8.50 | 1.50 | 5.50 | .20 | .71 x .47 | 3.38 | 10.77 | 1.201 | .31 | 1.375 |

*Alternate mounting on same base.

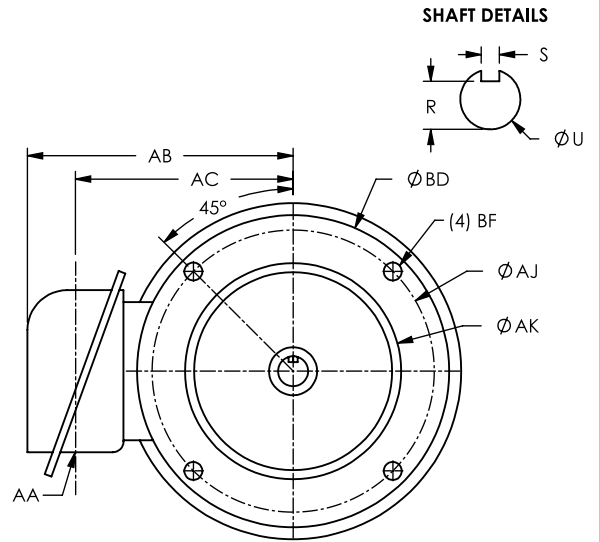
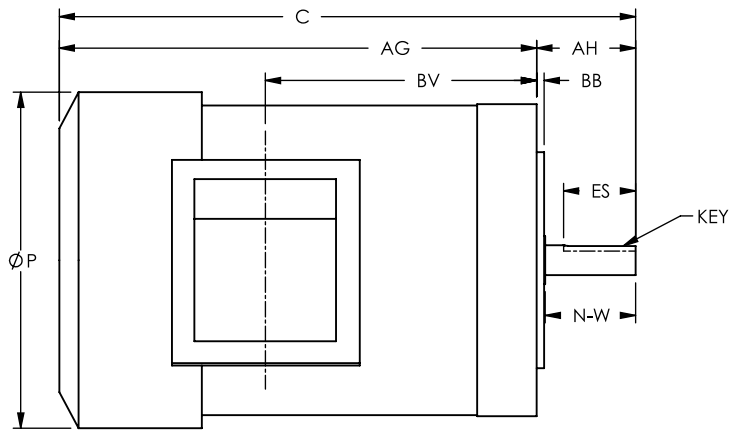
| HP | RPM | FRAME | AA | AB | AC | BA | BD | ES |
|-----|------|-------|------|------|------|------|-------|------|
| 1.0 | 1800 | 143TC | 0.87 | 5.59 | 4.25 | 2.25 | 6.46 | 1.41 |
| 1.5 | 1800 | 145TC | 0.87 | 5.59 | 4.25 | 2.25 | 6.46 | 1.41 |
| 2.0 | 1800 | 145TC | 0.87 | 5.59 | 4.25 | 2.25 | 6.46 | 1.41 |
| 3.0 | 1800 | 182TC | 1.10 | 6.50 | 5.17 | 2.75 | 7.67 | 1.78 |
| 5.0 | 1800 | 184TC | 1.10 | 6.50 | 5.17 | 2.75 | 7.67 | 1.78 |
| 7.5 | 1800 | 213TC | 1.10 | 7.68 | 6.38 | 3.50 | 10.07 | 2.41 |
| 10 | 1800 | 215TC | 1.10 | 7.68 | 6.38 | 3.50 | 10.07 | 2.41 |

C-FACE TEFC ROLLED STEEL MOTORS (56C-140TC)

FOOTED



FOOTLESS



| HP | RPM | FRAME | A | B | C | D | E | 2E | F* | 2F | G | H | N-W | P | R | S | U |
|-----|--------------|-------|------|--------------|----------------|------|------|------|------|------|-----|-----------|------|------|------|------|------|
| 1.0 | 3600 1800 | 56C | 6.50 | 3.74 5.75 | 11.37 11.96 | 3.50 | 2.44 | 4.88 | 2.00 | 3.00 | .10 | .79 x .34 | 1.88 | 7.02 | .517 | .188 | .625 |
| | 3600 1800 | 143TC | 6.96 | 6.10 | 12.02 | 3.50 | 2.75 | 5.50 | 1.00 | 4.00 | .10 | .79 x .34 | 2.25 | 7.02 | .771 | .188 | .875 |
| 1.5 | 3600 1800 | 56C | 6.50 | 5.75 | 12.36 | 3.50 | 2.44 | 4.88 | 2.00 | 3.00 | .10 | .79 x .34 | 1.88 | 7.02 | .517 | .188 | .625 |
| | 3600 1800 | 145TC | 6.96 | 6.10 | 12.42 | 3.50 | 2.75 | 5.50 | 1.00 | 4.00 | .10 | .79 x .34 | 2.25 | 7.02 | .771 | .188 | .875 |
| 2.0 | 3600 1800 | 56C | 6.50 | 5.75 | 12.95 | 3.50 | 2.44 | 4.88 | 2.00 | 3.00 | .10 | .79 x .34 | 1.88 | 7.02 | .517 | .188 | .625 |
| | 3600 1800 | 145TC | 6.96 | 6.10 | 13.00 | 3.50 | 2.75 | 5.50 | 1.00 | 4.00 | .10 | .79 x .34 | 2.25 | 7.02 | .771 | .188 | .875 |

*Alternate mounting on same base.

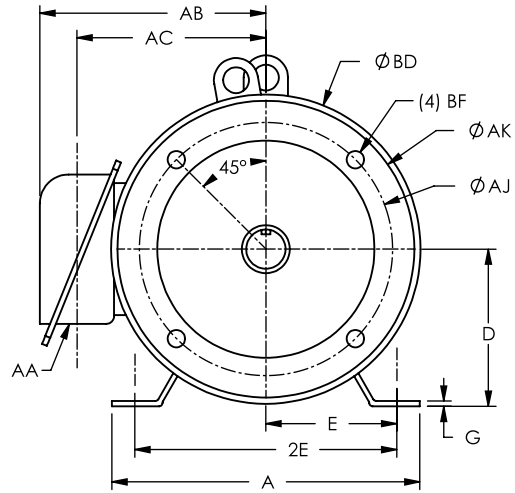
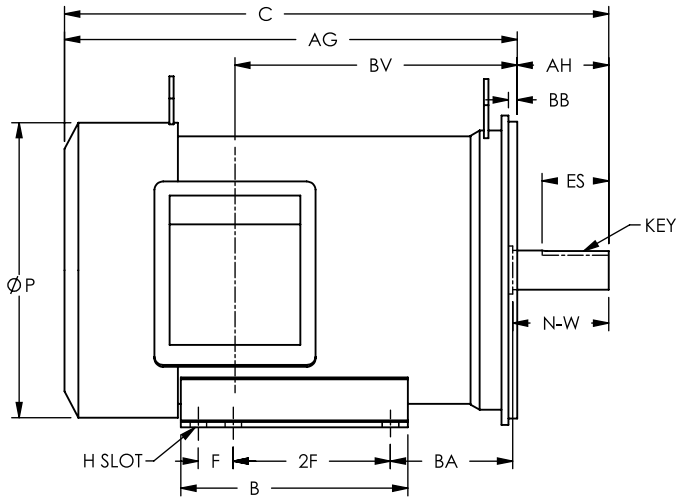
| HP | RPM | FRAME | AA | AB | AC | AG | AH | AJ | AK | BA | BB | BD | BF | BV | ES |
|-----|--------------|-------|-----|------|------|-------------|------|------|------|------|-----|------|--------|--------------|------|
| 1.0 | 3600 1800 | 56C | .87 | 5.55 | 4.25 | 9.31 9.9 | 2.06 | 5.88 | 4.50 | 2.75 | .16 | 6.50 | 3/8-16 | 5.06 5.65 | 1.41 |
| | 3600 1800 | 143TC | .87 | 5.55 | 4.25 | 9.90 | 2.12 | 5.88 | 4.50 | 2.75 | .16 | 6.50 | 3/8-16 | 5.65 | 1.41 |
| 1.5 | 3600 1800 | 56C | .87 | 5.55 | 4.25 | 10.30 | 2.06 | 5.88 | 4.50 | 2.75 | .16 | 6.50 | 3/8-16 | 6.05 | 1.41 |
| | 3600 1800 | 145TC | .87 | 5.55 | 4.25 | 10.30 | 2.12 | 5.88 | 4.50 | 2.75 | .16 | 6.50 | 3/8-16 | 6.05 | 1.41 |
| 2.0 | 3600 1800 | 56C | .87 | 5.55 | 4.25 | 10.89 | 2.06 | 5.88 | 4.50 | 2.75 | .16 | 6.50 | 3/8-16 | 6.64 | 1.41 |
| | 3600 1800 | 145TC | .87 | 5.55 | 4.25 | 10.89 | 2.12 | 5.88 | 4.50 | 2.75 | .16 | 6.50 | 3/8-16 | 6.64 | 1.41 |

Dimensions subject to change without notice. Refer to factory for Certified drawing.

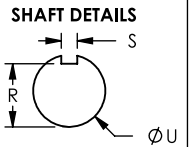
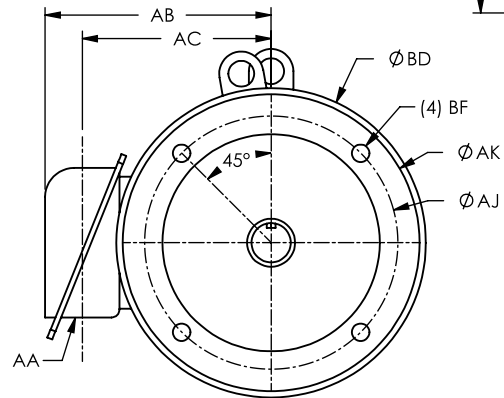
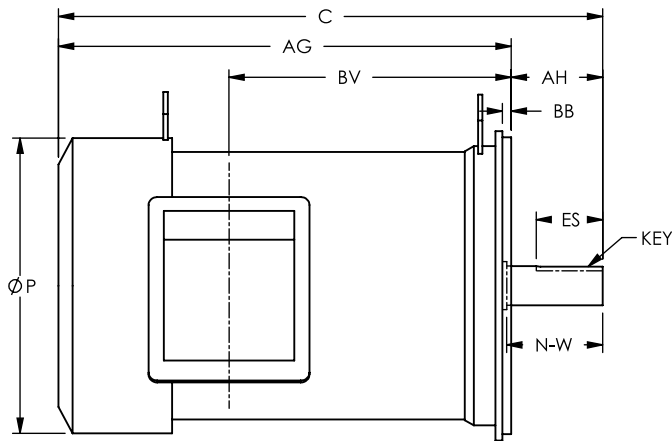
10/28/2010

C-FACE TEFC ROLLED STEEL MOTORS (180TC-215TC)

FOOTED



FOOTLESS



| HP | RPM | FRAME | A | B | C | D | E | 2E | F* | 2F | G | H | N-W | P | R | S | U |
|-----|--------------|-------|-------|------|----------------|------|------|------|------|------|-----|-----------|------|-------|-------|------|-------|
| 3.0 | 3600 1800 | 182TC | 8.82 | 6.50 | 15.58 | 4.50 | 3.75 | 7.50 | 1.00 | 4.50 | .15 | .71 x .47 | 2.75 | 8.45 | 0.986 | .250 | 1.125 |
| 5.0 | 3600 1800 | 184TC | 8.82 | 6.50 | 16.17 | 4.50 | 3.75 | 7.50 | 1.00 | 4.50 | .15 | .71 x .47 | 2.75 | 8.45 | 0.986 | .250 | 1.125 |
| 7.5 | 3600 1800 | 213TC | 10.32 | 7.32 | 17.32 17.92 | 5.25 | 4.25 | 8.50 | - | 5.50 | .20 | .71 x .47 | 3.38 | 10.77 | 1.201 | .31 | 1.375 |
| 10 | 3600 1800 | 215TC | 10.32 | 9.30 | 18.51 19.10 | 5.25 | 4.25 | 8.50 | 1.50 | 5.50 | .20 | .71 x .47 | 3.38 | 10.77 | 1.201 | .31 | 1.375 |

*Alternate mounting on same base.

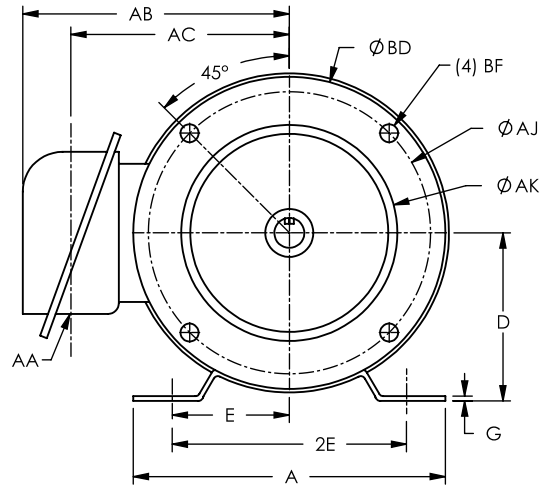
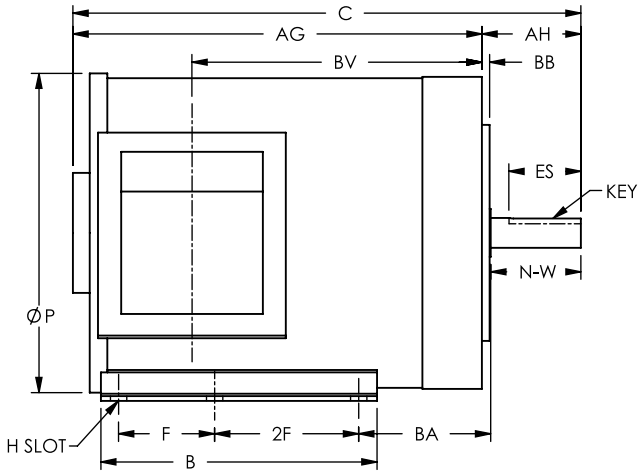
| HP | RPM | FRAME | AA | AB | AC | AG | AH | AJ | AK | BA | BB | BD | BF | BV | ES |
|-----|--------------|-------|------|------|------|----------------|------|------|------|------|-----|------|--------|---------------|------|
| 3.0 | 3600 1800 | 182TC | 1.10 | 6.50 | 5.17 | 12.96 | 2.62 | 7.25 | 8.50 | 3.50 | .25 | 8.86 | 1/2-13 | 8.08 | 1.78 |
| 5.0 | 3600 1800 | 184TC | 1.10 | 6.50 | 5.17 | 13.55 | 2.62 | 7.25 | 8.50 | 3.50 | .25 | 8.86 | 1/2-13 | 8.67 | 1.78 |
| 7.5 | 3600 1800 | 213TC | 1.10 | 7.68 | 6.38 | 14.20 14.80 | 3.12 | 7.25 | 8.50 | 4.25 | .25 | 9.00 | 1/2-13 | 8.73 9.33 | 2.41 |
| 10 | 3600 1800 | 215TC | 1.10 | 7.68 | 6.38 | 15.39 15.98 | 3.12 | 7.25 | 8.50 | 4.25 | .25 | 9.00 | 1/2-13 | 9.91 10.50 | 2.41 |

Dimensions subject to change without notice. Refer to factory for Certified drawing.

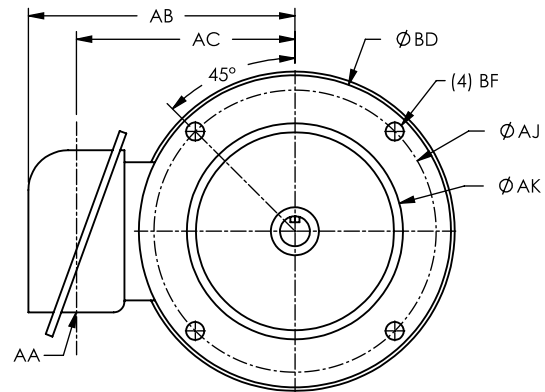
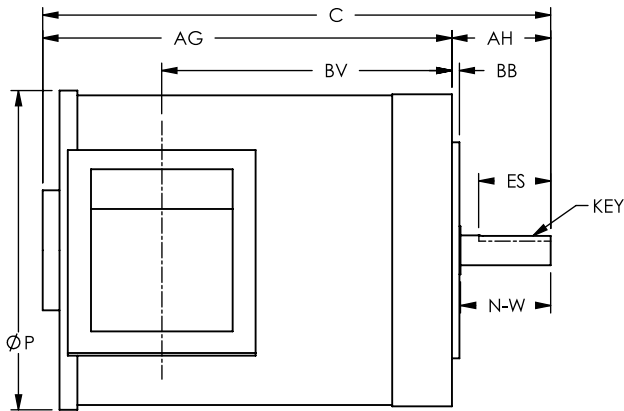
10/28/2010

C-FACE TENV STAINLESS STEEL MOTORS

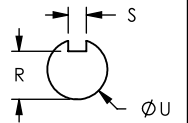
FOOTED



FOOTLESS



SHAFT DETAILS



| HP | RPM | FRAME | A | B | C | D | E | 2E | F* | 2F | G | H | N-W | P | R | S | U |
|------|--------------|-------|------|--------------|----------------|------|------|------|------|------|-----|-----------|------|------|------|------|------|
| 0.33 | 3600 1800 | 56C | 6.50 | 3.75 | 9.09 | 3.50 | 2.44 | 4.88 | - | 3.00 | .10 | .79 x .34 | 1.88 | 6.50 | .517 | .188 | .625 |
| 0.50 | 3600 1800 | 56C | 6.50 | 3.75 5.75 | 9.09 10.20 | 3.50 | 2.44 | 4.88 | 2.00 | 3.00 | .10 | .79 x .34 | 1.88 | 6.50 | .517 | .188 | .625 |
| 0.75 | 3600 1800 | 56C | 6.50 | 5.75 | 10.20 10.58 | 3.50 | 2.44 | 4.88 | 2.00 | 3.00 | .10 | .79 x .34 | 1.88 | 6.50 | .517 | .188 | .625 |
| 1.00 | 1800 | 56C | 6.50 | 5.75 | 10.58 | 3.50 | 2.44 | 4.88 | 2.00 | 3.00 | .10 | .19 x .34 | 1.88 | 6.50 | .517 | .188 | .625 |

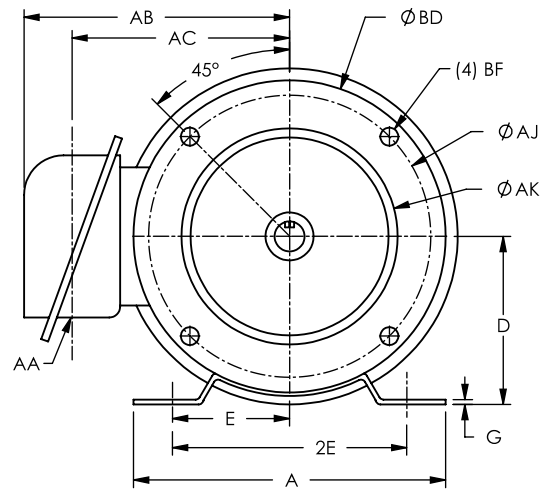
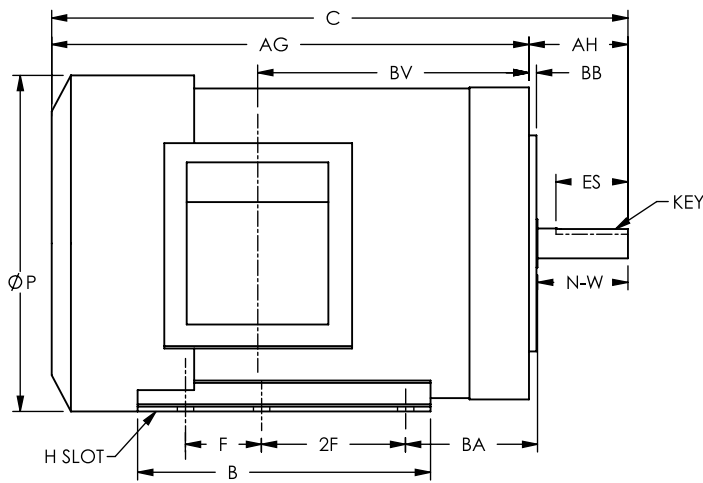
*Alternate mounting on same base.

| HP | RPM | FRAME | AA | AB | AC | AG | AH | AJ | AK | BA | BB | BD | BF | BV | ES |
|------|--------------|-------|-----|------|------|--------------|------|------|------|------|-----|------|--------|--------------|------|
| 0.33 | 3600 1800 | 56C | .87 | 5.53 | 4.25 | 7.03 | 2.06 | 5.88 | 4.50 | 2.75 | .16 | 6.50 | 3/8-16 | 4.55 | 1.41 |
| 0.50 | 3600 1800 | 56C | .87 | 5.55 | 4.25 | 7.03 8.14 | 2.06 | 5.88 | 4.50 | 2.75 | .16 | 6.50 | 3/8-16 | 4.55 5.65 | 1.41 |
| 0.75 | 3600 1800 | 56C | .87 | 5.55 | 4.25 | 8.14 8.52 | 2.06 | 5.88 | 4.50 | 2.75 | .16 | 6.50 | 3/8-16 | 5.65 6.04 | 1.41 |
| 1.00 | 1800 | 56C | .87 | 5.55 | 4.25 | 8.52 | 2.06 | 5.88 | 4.50 | 2.75 | .16 | 6.50 | 3/8-16 | 6.04 | 1.41 |

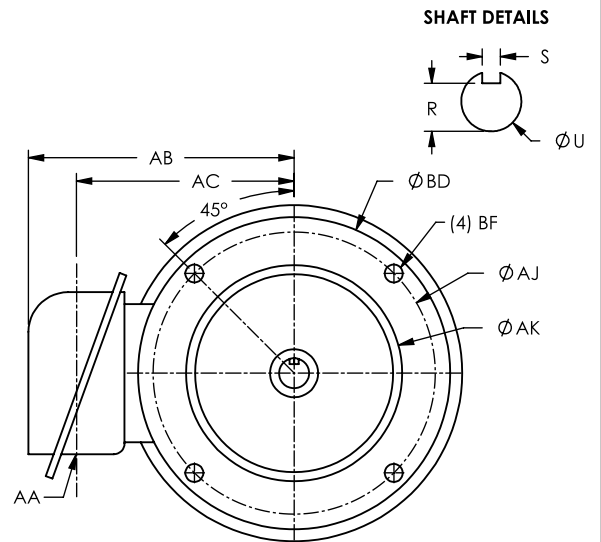
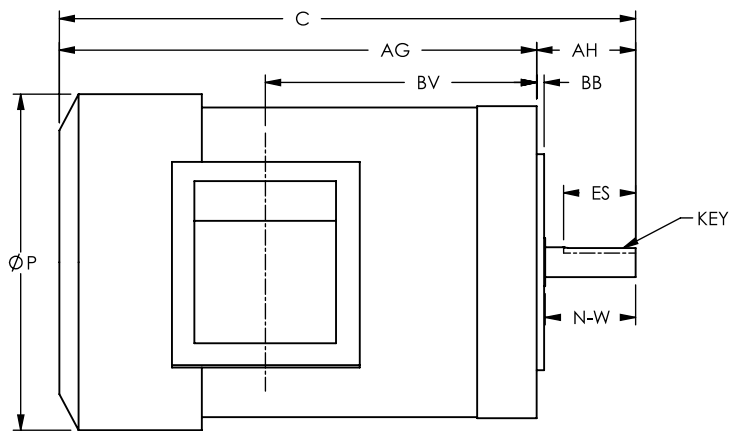
Dimensions subject to change without notice. Refer to factory for Certified drawing.

C-FACE TEFC STAINLESS STEEL MOTORS (56C-140TC)

FOOTED



FOOTLESS



| HP | RPM | FRAME | A | B | C | D | E | 2E | F* | 2F | G | H | N-W | P | R | S | U |
|-----|--------------|-------|------|------|----------------|------|------|------|------|------|-----|-----------|------|------|------|------|------|
| 1.0 | 3600 1800 | 56C | 6.50 | 6.10 | 12.00 | 3.50 | 2.44 | 4.88 | 2.00 | 3.00 | .10 | .79 x .34 | 1.88 | 7.00 | .517 | .188 | .625 |
| | 3600 1800 | 143TC | 6.96 | 6.10 | 12.34 | 3.50 | 2.75 | 5.50 | 1.00 | 4.00 | .10 | .79 x .34 | 2.25 | 7.02 | .771 | .188 | .875 |
| 1.5 | 3600 1800 | 56C | 6.50 | 6.10 | 12.00 | 3.50 | 2.44 | 4.88 | 2.00 | 3.00 | .10 | .79 x .34 | 1.88 | 7.00 | .517 | .188 | .625 |
| | 3600 1800 | 145TC | 6.96 | 6.10 | 12.73 | 3.50 | 2.75 | 5.50 | 1.00 | 4.00 | .10 | .79 x .34 | 2.25 | 7.02 | .771 | .188 | .875 |
| 2.0 | 3600 1800 | 56C | 6.50 | 6.10 | 12.40 | 3.50 | 2.44 | 4.88 | 2.00 | 3.00 | .10 | .79 x .34 | 1.88 | 7.00 | .517 | .188 | .625 |
| | 3600 1800 | 145TC | 6.96 | 6.10 | 13.32 12.73 | 3.50 | 2.75 | 5.50 | 1.00 | 4.00 | .10 | .79 x .34 | 2.25 | 7.02 | .771 | .188 | .875 |

*Alternate mounting on same base.

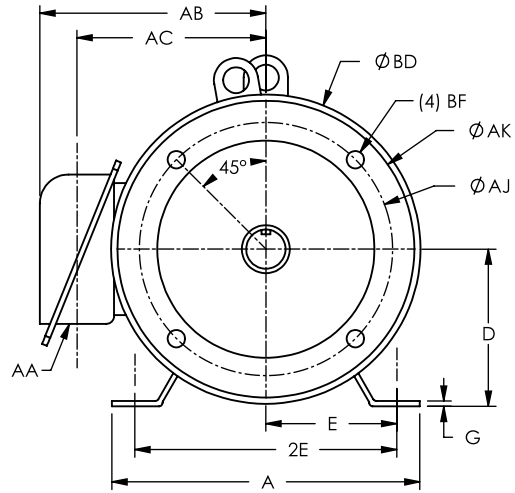
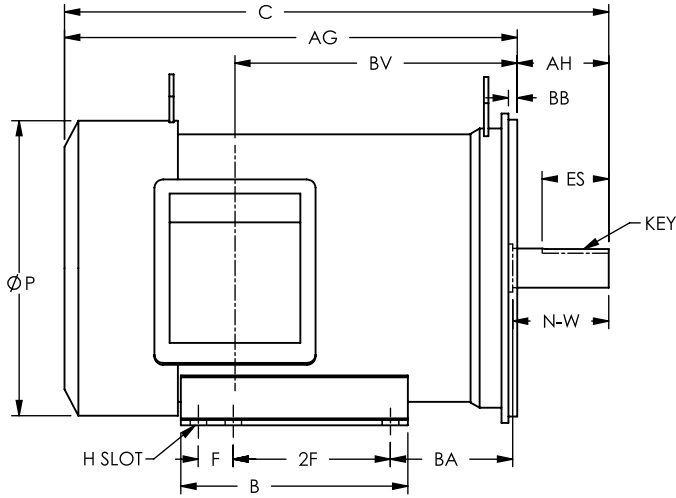
| HP | RPM | FRAME | AA | AB | AC | AG | AH | AJ | AK | BA | BB | BD | BF | BV | ES |
|-----|--------------|-------|-----|------|------|----------------|------|------|------|------|-----|------|--------|--------------|------|
| 1.0 | 3600 1800 | 56C | .87 | 5.53 | 4.25 | 9.94 | 2.06 | 5.88 | 4.50 | 2.75 | .16 | 6.50 | 3/8-16 | 7.71 | 1.41 |
| | 3600 1800 | 143TC | .87 | 5.55 | 4.25 | 10.22 | 2.12 | 5.88 | 4.50 | 2.75 | .16 | 6.50 | 3/8-16 | 5.93 | 1.41 |
| 1.5 | 3600 1800 | 56C | .87 | 5.55 | 4.25 | 9.94 | 2.06 | 5.88 | 4.50 | 2.75 | .16 | 6.50 | 3/8-16 | 7.71 | 1.41 |
| | 3600 1800 | 145TC | .87 | 5.55 | 4.25 | 10.61 | 2.12 | 5.88 | 4.50 | 2.75 | .16 | 6.50 | 3/8-16 | 6.32 | 1.41 |
| 2.0 | 3600 1800 | 56C | .87 | 5.55 | 4.25 | 10.34 | 2.06 | 5.88 | 4.50 | 2.75 | .16 | 6.50 | 3/8-16 | 6.04 | 1.41 |
| | 3600 1800 | 145TC | .87 | 5.55 | 4.25 | 11.20 10.61 | 2.12 | 5.88 | 4.50 | 2.75 | .16 | 6.50 | 3/8-16 | 6.91 6.32 | 1.41 |

Dimensions subject to change without notice. Refer to factory for Certified drawing.

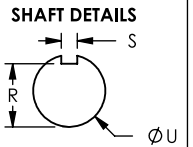
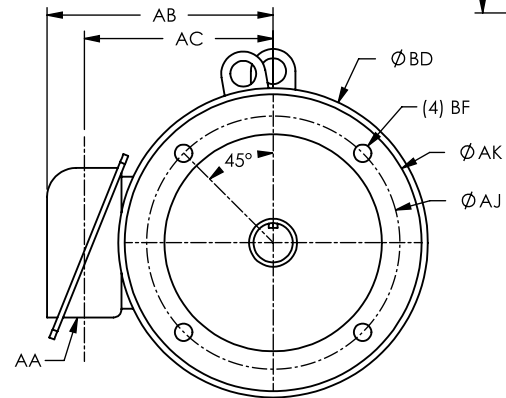
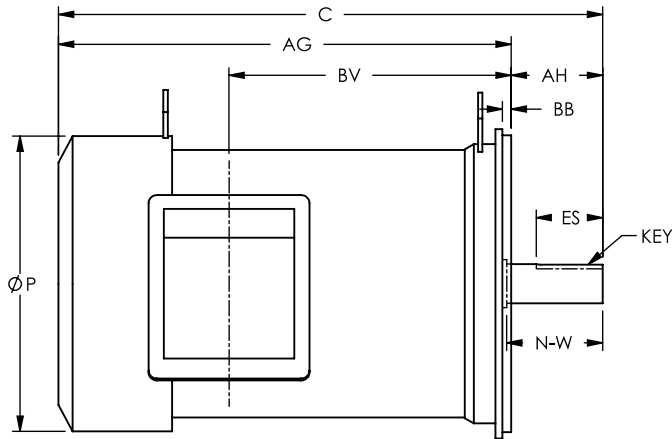
10/28/2010

C-FACE TEFC STAINLESS STEEL MOTORS (180TC-256TC)

FOOTED



FOOTLESS



| HP | RPM | FRAME | A | B | C | D | E | 2E | F* | 2F | G | H | N-W | P | R | S | U |
|-----|------|-------|-------|-------|-------|------|------|-------|------|-------|-----|-----------|------|-------|-------|------|-------|
| 3.0 | 3600 | 182TC | 8.82 | 6.50 | 15.58 | 4.50 | 3.75 | 7.50 | 1.00 | 4.50 | .15 | .71 x .47 | 2.75 | 8.45 | 0.986 | .250 | 1.125 |
| | 1800 | | | | 15.78 | | | | | | | | | | | | |
| 5.0 | 3600 | 184TC | 8.82 | 6.50 | 16.37 | 4.50 | 3.75 | 7.50 | 1.00 | 4.50 | .15 | .71 x .47 | 2.75 | 8.45 | 0.986 | .250 | 1.125 |
| | 1800 | | | | 17.92 | | | | | | | | | | | | |
| 7.5 | 3600 | 213TC | 10.32 | 7.32 | 17.32 | 5.25 | 4.25 | 8.50 | - | 5.50 | .20 | .71 x .47 | 3.38 | 10.77 | 1.201 | .31 | 1.375 |
| | 1800 | | | | 17.92 | | | | | | | | | | | | |
| 10 | 3600 | 215TC | 10.32 | 9.30 | 18.51 | 5.25 | 4.25 | 8.50 | 1.50 | 5.50 | .20 | .71 x .47 | 3.38 | 10.77 | 1.201 | .31 | 1.375 |
| | 1800 | | | | 19.10 | | | | | | | | | | | | |
| 15 | 3600 | 254TC | 11.18 | 9.53 | 23.82 | 6.25 | 5.00 | 10.00 | - | 8.25 | .47 | Ø.53 | 4.01 | 12.36 | 1.416 | .38 | 1.625 |
| | 1800 | | | | 19.10 | | | | | | | | | | | | |
| 20 | 3600 | 254TC | 11.18 | 11.28 | 25.39 | 6.25 | 5.00 | 10.00 | - | 10.00 | .47 | Ø.53 | 4.01 | 12.36 | 1.416 | .38 | 1.625 |
| | 1800 | | | | 19.10 | | | | | | | | | | | | |

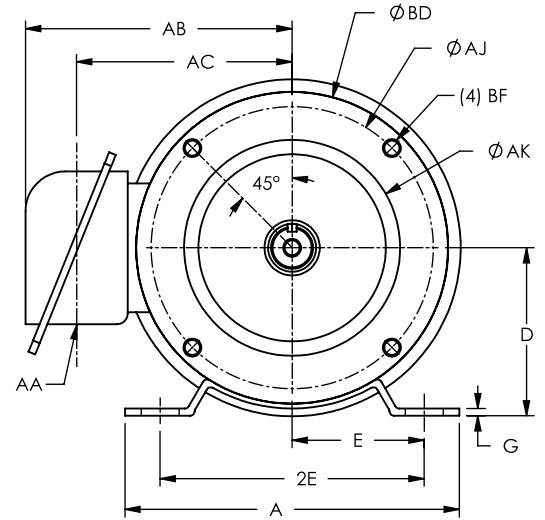
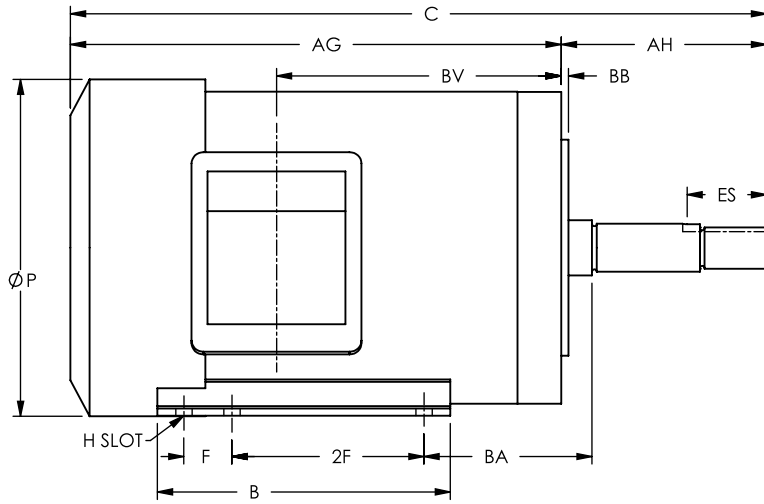
*Alternate mounting on same base.

| HP | RPM | FRAME | AA | AB | AC | AG | AH | AJ | AK | BA | BB | BD | BF | BV | ES |
|-----|------|-------|------|------|------|-------|------|------|------|------|-----|-------|--------|-------|------|
| 3.0 | 3600 | 182TC | 1.10 | 6.50 | 5.17 | 12.96 | 2.62 | 7.25 | 8.50 | 3.50 | .25 | 8.86 | 1/2-13 | 8.08 | 1.78 |
| | 1800 | | | | | 13.16 | | | | | | | 8.28 | | |
| 5.0 | 3600 | 184TC | 1.10 | 6.50 | 5.17 | 13.75 | 2.62 | 7.25 | 8.50 | 3.50 | .25 | 8.86 | 1/2-13 | 8.87 | 1.78 |
| | 1800 | | | | | 15.98 | | | | | | | 9.33 | | |
| 7.5 | 3600 | 213TC | 1.10 | 7.68 | 6.38 | 14.20 | 3.12 | 7.25 | 8.50 | 4.25 | .25 | 9.00 | 1/2-13 | 8.73 | 2.41 |
| | 1800 | | | | | 14.80 | | | | | | | 9.33 | | |
| 10 | 3600 | 215TC | 1.10 | 7.68 | 6.38 | 15.39 | 3.12 | 7.25 | 8.50 | 4.25 | .25 | 9.00 | 1/2-13 | 9.91 | 2.41 |
| | 1800 | | | | | 15.98 | | | | | | | 10.50 | | |
| 15 | 3600 | 254TC | 2.05 | 9.84 | 8.00 | 20.07 | 3.75 | 7.25 | 8.50 | 4.75 | .25 | 11.85 | 1/2-13 | 12.01 | 2.91 |
| | 1800 | | | | | 15.98 | | | | | | | 10.50 | | |
| 20 | 3600 | 254TC | 2.05 | 9.84 | 8.00 | 21.38 | 3.75 | 7.25 | 8.50 | 4.75 | .25 | 11.85 | 1/2-13 | 13.58 | 2.91 |
| | 1800 | | | | | 15.98 | | | | | | | 10.50 | | |

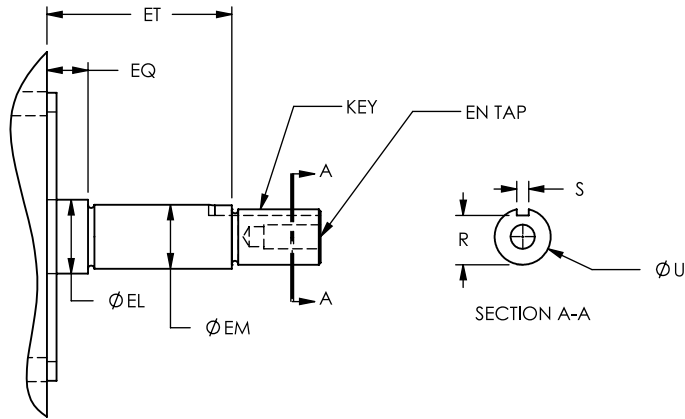
Dimensions subject to change without notice. Refer to factory for Certified drawing.

10/28/2010

STAINLESS STEEL CLOSE COUPLED PUMP MOTORS



SHAFT DETAILS



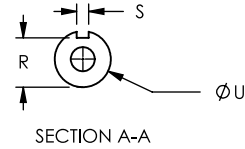
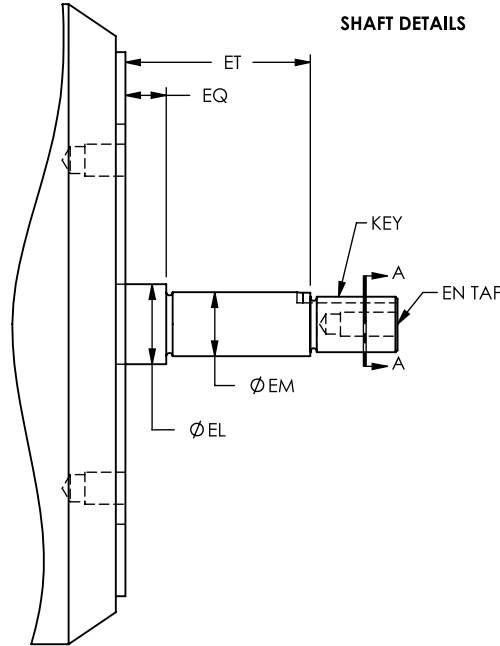
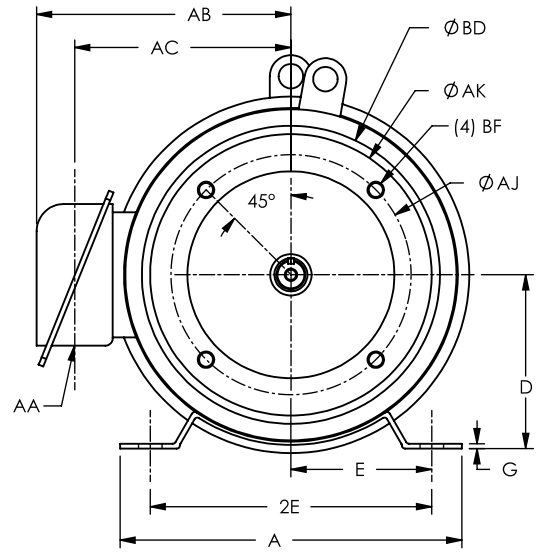
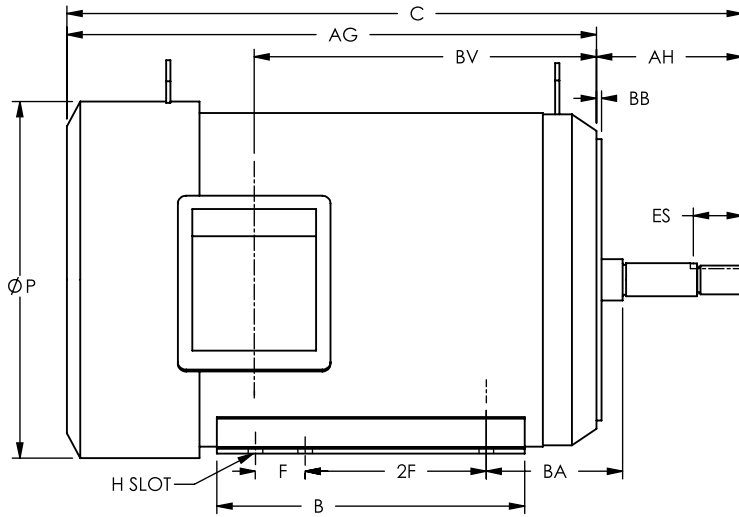
| HP | RPM | FRAME | A | B | C | D | E | 2E | F* | 2F | G | H | P | R | S | U | AA | AB |
|-----|--------------|-------|------|------|----------------|------|------|------|------|------|-----|-----------|------|------|------|-------|------|------|
| 1.0 | 3600 1800 | 143JM | 6.50 | 5.75 | 14.48 | 3.50 | 2.75 | 5.50 | 1.00 | 4.00 | .09 | .79 x .34 | 6.79 | .771 | .188 | .8745 | 0.87 | 5.53 |
| 2.0 | 3600 1800 | 145JM | 6.50 | 5.75 | 14.48 | 3.50 | 2.75 | 5.50 | 1.00 | 4.00 | .09 | .79 x .34 | 6.79 | .771 | .188 | .8745 | 0.87 | 5.53 |
| 3.0 | 3600 1800 | 182JM | 8.82 | 6.50 | 17.21 17.81 | 4.50 | 3.75 | 7.50 | 1.00 | 4.50 | .09 | .71 x .47 | 8.86 | .771 | .188 | .8745 | 0.87 | 7.00 |
| 5.0 | 3600 1800 | 184JM | 8.82 | 6.50 | 17.81 | 4.50 | 3.75 | 7.50 | 1.00 | 4.50 | .09 | .71 x .47 | 8.86 | .771 | .188 | .8745 | 0.87 | 7.00 |

*Alternate mounting on same base.

| HP | RPM | FRAME | AC | AG | AH | AJ | AK | BA | BB | BD | BF | BV | EL | EM | EN | EQ | ES | ET |
|-----|--------------|-------|------|----------------|-------|------|------|------|-----|------|--------|--------------|-------|------|--------|------|------|------|
| 1.0 | 3600 1800 | 143JM | 4.25 | 10.20 | 4.281 | 5.88 | 4.50 | 3.06 | .16 | 6.50 | 3/8-16 | 5.50 | 1.156 | 1.00 | 3/8-16 | .640 | 1.65 | 2.89 |
| 2.0 | 3600 1800 | 145JM | 4.25 | 10.20 | 4.281 | 5.88 | 4.50 | 3.06 | .16 | 6.50 | 3/8-16 | 5.95 | 1.156 | 1.00 | 3/8-16 | .640 | 1.65 | 2.89 |
| 3.0 | 3600 1800 | 182JM | 5.30 | 12.93 13.53 | 4.281 | 5.88 | 4.50 | 3.66 | .16 | 6.50 | 3/8-16 | 8.10 8.70 | 1.250 | 1.00 | 3/8-16 | .640 | 1.65 | 2.89 |
| 5.0 | 3600 1800 | 184JM | 5.30 | 13.53 | 4.281 | 5.88 | 4.50 | 3.66 | .16 | 6.50 | 3/8-16 | 8.70 | 1.250 | 1.00 | 3/8-16 | .640 | 1.65 | 2.89 |

Dimensions subject to change without notice. Refer to factory for Certified drawing.

STAINLESS STEEL CLOSE COUPLED PUMP MOTORS (213JM-215JM)

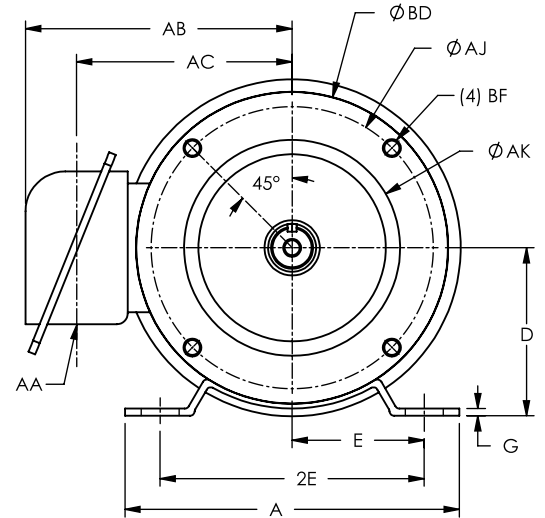
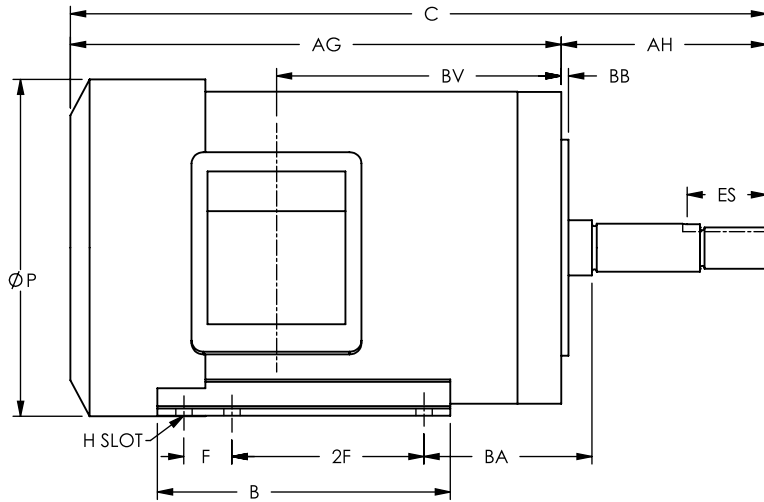


| HP | RPM | FRAME | A | B | C | D | E | 2E | F* | 2F | G | H | P | R | S | U | AA | AB |
|------|--------------|-------|-------|------|-------|------|------|------|------|------|-----|-----------|-------|------|------|-------|------|------|
| 7.5 | 3600 1800 | 213JM | 10.30 | 9.30 | 19.36 | 5.25 | 4.27 | 8.54 | 1.50 | 5.50 | .16 | .71 x .42 | 10.80 | .771 | .188 | .8745 | 1.10 | 7.44 |
| 10.0 | 3600 1800 | 215JM | 10.30 | 9.30 | 21.76 | 5.25 | 4.27 | 8.54 | 1.50 | 5.50 | .16 | .71 x .42 | 10.80 | .771 | .188 | .8745 | 1.10 | 7.44 |

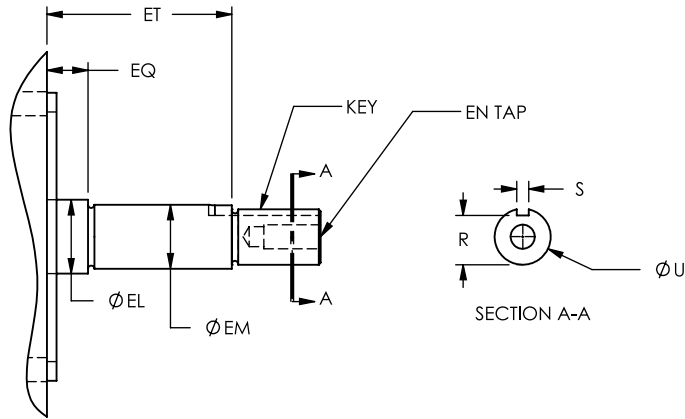
*Alternate mounting on same base.

| HP | RPM | FRAME | AC | AG | AH | AJ | AK | BA | BB | BD | BF | BV | EL | EM | EN | EQ | ES | ET |
|------|--------------|-------|------|----------------|-------|------|------|------|-----|------|--------|----------------|-------|------|--------|------|------|------|
| 7.5 | 3600 1800 | 182JM | 6.17 | 15.40 15.90 | 4.281 | 7.25 | 8.50 | 4.12 | .25 | 9.00 | 1/2-13 | 10.81 10.34 | 1.250 | 1.00 | 3/8-16 | .640 | 1.65 | 2.89 |
| 10.0 | 3600 1800 | 184JM | 6.17 | 15.40 15.90 | 4.281 | 7.25 | 8.50 | 4.12 | .25 | 9.00 | 1/2-13 | 10.81 10.34 | 1.250 | 1.00 | 3/8-16 | .640 | 1.65 | 2.89 |

PREMIUM STAINLESS STEEL CLOSE COUPLED PUMP MOTORS



SHAFT DETAILS



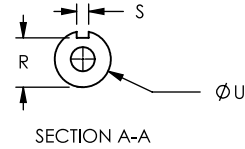
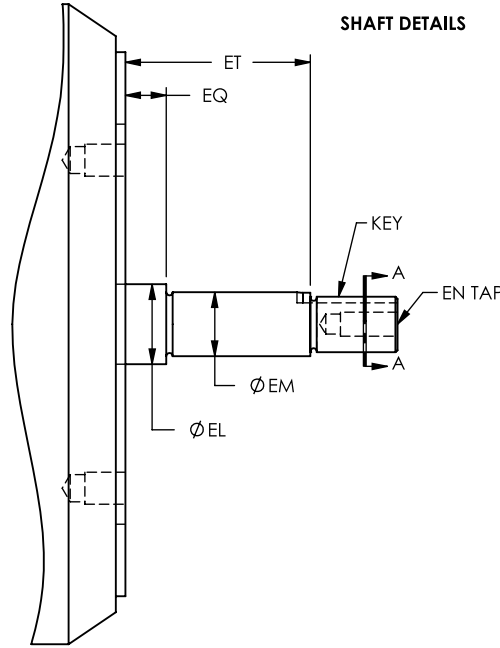
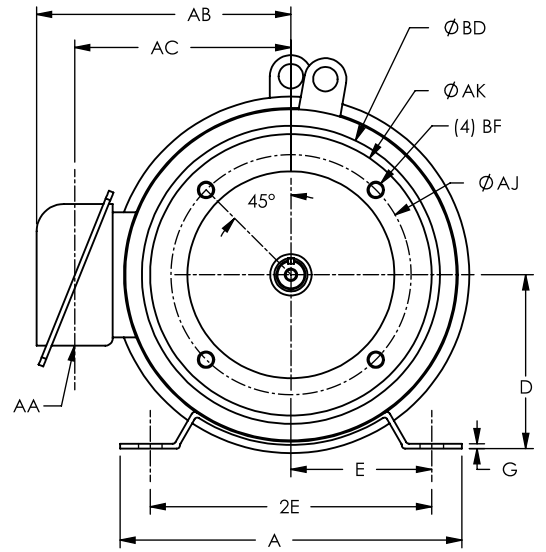
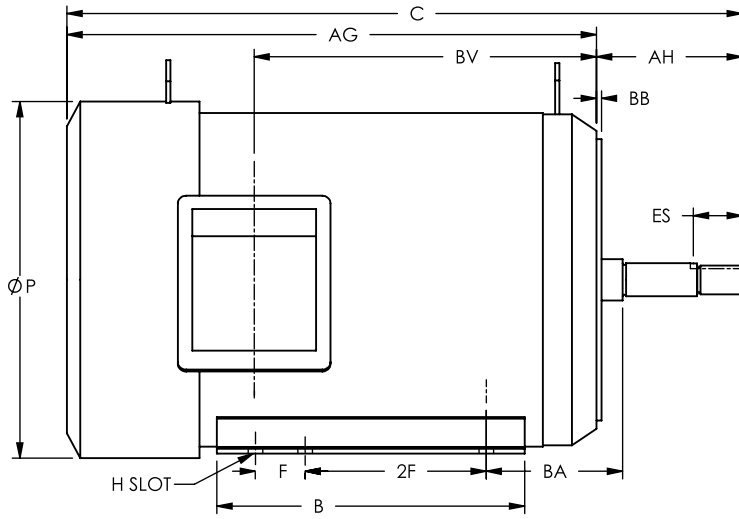
| HP | RPM | FRAME | A | B | C | D | E | 2E | F* | 2F | G | H | P | R | S | U | AA | AB |
|-----|--------------|-------|------|------|----------------|------|------|------|------|------|-----|-----------|------|------|------|-------|------|------|
| 1.0 | 3600 1800 | 143JM | 6.97 | 6.10 | 14.21 | 3.50 | 2.75 | 5.50 | 1.00 | 4.00 | .10 | .79 x .34 | 6.79 | .771 | .188 | .8745 | 0.87 | 5.58 |
| 2.0 | 3600 1800 | 145JM | 6.97 | 6.10 | 15.20 16.58 | 3.50 | 2.75 | 5.50 | 1.00 | 4.00 | .10 | .79 x .34 | 6.79 | .771 | .188 | .8745 | 0.87 | 5.58 |
| 3.0 | 3600 1800 | 182JM | 8.82 | 6.50 | 17.03 17.23 | 4.50 | 3.75 | 7.50 | 1.00 | 4.50 | .10 | .71 x .47 | 8.45 | .771 | .188 | .8745 | 1.10 | 6.48 |
| 5.0 | 3600 1800 | 184JM | 8.82 | 6.50 | 17.82 | 4.50 | 3.75 | 7.50 | 1.00 | 4.50 | .10 | .71 x .47 | 8.45 | .771 | .188 | .8745 | 1.10 | 6.48 |

*Alternate mounting on same base.

| HP | RPM | FRAME | AC | AG | AH | AJ | AK | BA | BB | BD | BF | BV | EL | EM | EN | EQ | ES | ET |
|-----|--------------|-------|------|----------------|-------|------|------|------|-----|------|--------|--------------|-------|------|--------|------|------|------|
| 1.0 | 3600 1800 | 143JM | 4.25 | 9.95 | 4.281 | 5.88 | 4.50 | 3.06 | .16 | 6.50 | 3/8-16 | 5.66 | 1.156 | 1.00 | 3/8-16 | .640 | 1.65 | 2.89 |
| 2.0 | 3600 1800 | 145JM | 4.25 | 10.93 12.31 | 4.281 | 5.88 | 4.50 | 3.06 | .16 | 6.50 | 3/8-16 | 6.64 8.02 | 1.156 | 1.00 | 3/8-16 | .640 | 1.65 | 2.89 |
| 3.0 | 3600 1800 | 182JM | 5.18 | 12.76 12.95 | 4.281 | 5.88 | 4.50 | 3.66 | .16 | 6.50 | 3/8-16 | 7.88 8.07 | 1.250 | 1.00 | 3/8-16 | .640 | 1.65 | 2.89 |
| 5.0 | 3600 1800 | 184JM | 5.18 | 13.55 | 4.281 | 5.88 | 4.50 | 3.66 | .16 | 6.50 | 3/8-16 | 8.66 | 1.250 | 1.00 | 3/8-16 | .640 | 1.65 | 2.89 |

Dimensions subject to change without notice. Refer to factory for Certified drawing.

PREMIUM STAINLESS STEEL CLOSE COUPLED PUMP MOTORS (213JM-215JM)



| HP | RPM | FRAME | A | B | C | D | E | 2E | F* | 2F | G | H | P | R | S | U | AA | AB |
|------|--------------|-------|-------|------|----------------|------|------|------|------|------|-----|-----------|-------|------|------|-------|------|------|
| 7.5 | 3600 1800 | 213JM | 10.32 | 7.32 | 18.62 19.21 | 5.25 | 4.25 | 8.50 | - | 5.47 | .16 | .71 x .44 | 10.77 | .771 | .188 | .8745 | 1.10 | 7.68 |
| 10.0 | 3600 1800 | 215JM | 10.32 | 9.29 | 19.80 20.39 | 5.25 | 4.25 | 8.50 | 1.00 | 5.47 | .16 | .71 x .44 | 10.77 | .771 | .188 | .8745 | 1.10 | 7.68 |

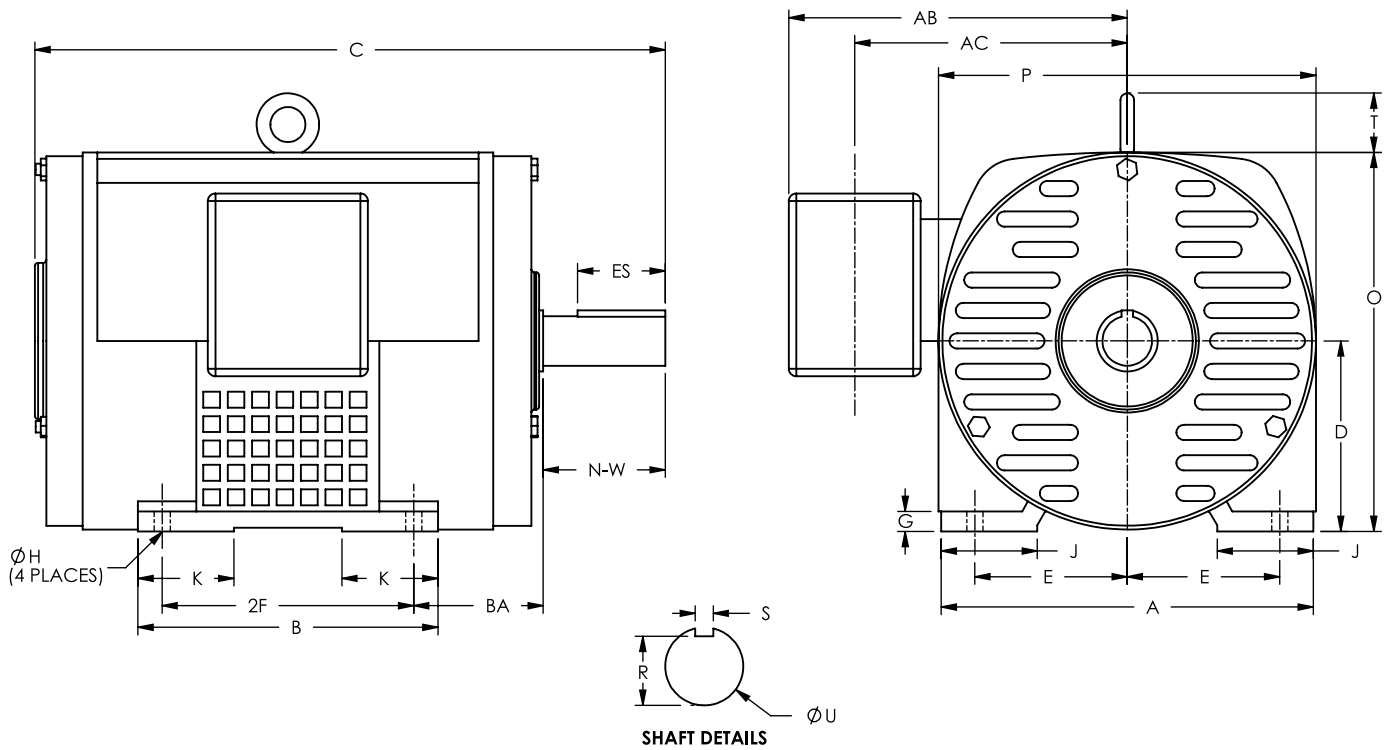
*Alternate mounting on same base.

| HP | RPM | FRAME | AC | AG | AH | AJ | AK | BA | BB | BD | BF | BV | EL | EM | EN | EQ | ES | ET |
|------|--------------|-------|------|----------------|-------|------|------|------|-----|------|--------|---------------|-------|------|--------|------|------|------|
| 7.5 | 3600 1800 | 213JM | 6.38 | 14.68 14.09 | 4.281 | 7.25 | 8.50 | 4.12 | .25 | 9.00 | 1/2-13 | 9.15 8.56 | 1.250 | 1.00 | 3/8-16 | .640 | 1.65 | 2.89 |
| 10.0 | 3600 1800 | 215JM | 6.38 | 15.21 14.62 | 4.281 | 7.25 | 8.50 | 4.12 | .25 | 9.00 | 1/2-13 | 10.34 9.75 | 1.250 | 1.00 | 3/8-16 | .640 | 1.65 | 2.89 |

Dimensions subject to change without notice. Refer to factory for Certified drawing.

10/28/2010

OPEN DRIP PROOF ENCLOSURE (143T - 365T)

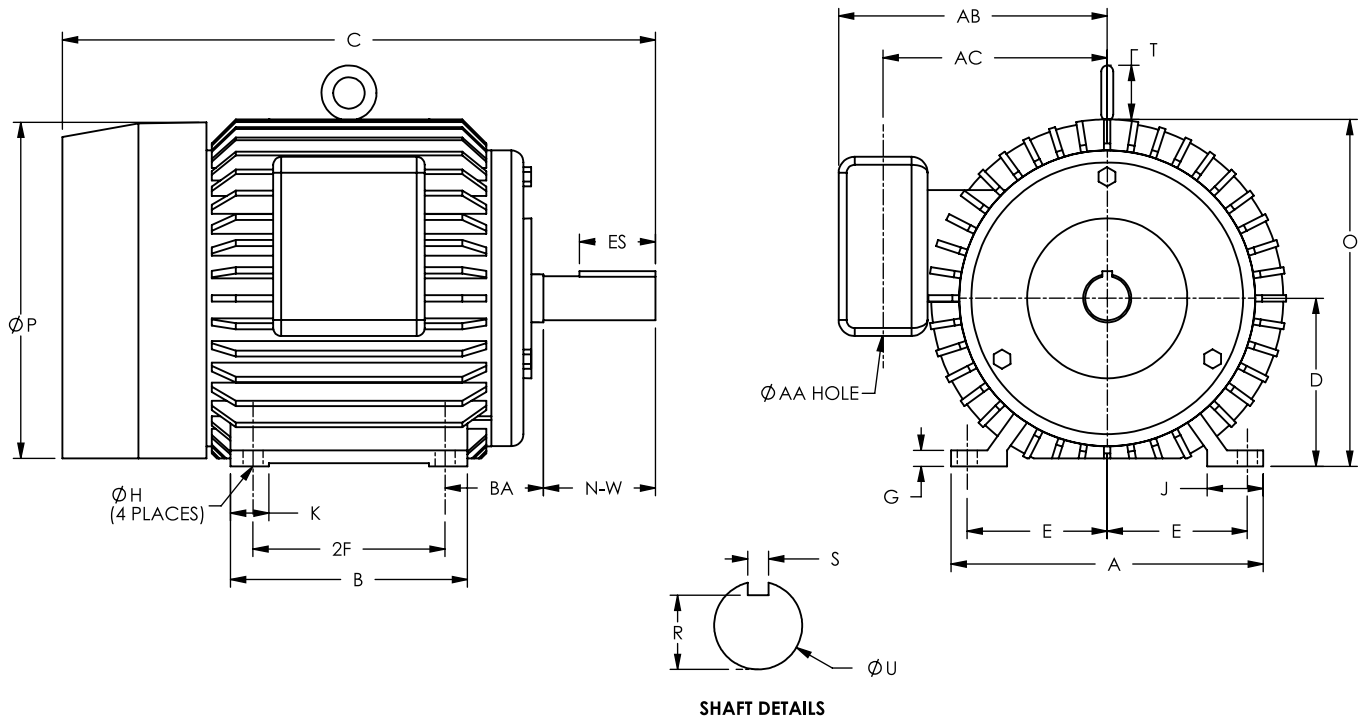


| FRAME | A | B | C | D | E | 2F | G | ØH | J | K | P | R | S | U | AA | AB | AC | BA | ES | N-W | O+T |
|-------|-------|-------|-------|------|------|-------|------|------|------|------|-------|-------|-------|-------|------|-------|-------|------|------|------|-------|
| 143T | 6.92 | 4.92 | 10.53 | 3.50 | 2.75 | 4.00 | 0.35 | 0.34 | 1.57 | - | 6.81 | 0.771 | 0.188 | 0.875 | 1.10 | 6.84 | 4.68 | 2.25 | 1.41 | 2.25 | 7.54 |
| 145T | 6.92 | 5.90 | 11.50 | 3.50 | 2.75 | 5.00 | 0.35 | 0.34 | 1.57 | - | 6.81 | 0.771 | 0.188 | 0.875 | 1.10 | 6.84 | 4.68 | 2.25 | 1.41 | 2.25 | 7.54 |
| 182T | 8.66 | 5.62 | 12.53 | 4.50 | 3.75 | 4.50 | 0.56 | 0.41 | 1.57 | - | 8.70 | 0.986 | 0.250 | 1.125 | 1.10 | 7.78 | 5.90 | 2.75 | 1.78 | 2.75 | 10.77 |
| 184T | 8.66 | 6.61 | 13.53 | 4.50 | 3.75 | 5.50 | 0.56 | 0.41 | 1.57 | - | 8.70 | 0.986 | 0.250 | 1.125 | 1.10 | 7.78 | 5.90 | 2.75 | 1.78 | 2.75 | 10.77 |
| 213T | 10.24 | 7.09 | 15.85 | 5.25 | 4.25 | 5.50 | 0.76 | 0.41 | 1.97 | - | 10.55 | 1.201 | 0.312 | 1.375 | 1.38 | 8.66 | 7.01 | 3.50 | 2.41 | 3.38 | 145 |
| 215T | 10.24 | 8.66 | 17.38 | 5.25 | 4.25 | 7.00 | 0.76 | 0.41 | 1.97 | - | 10.55 | 1.201 | 0.312 | 1.375 | 1.38 | 8.66 | 7.01 | 3.50 | 2.41 | 3.38 | 124.5 |
| 254T | 12.20 | 9.84 | 20.67 | 6.25 | 5.00 | 8.25 | 0.66 | 0.53 | 3.15 | - | 12.80 | 1.416 | 0.375 | 1.625 | 2.05 | 11.10 | 8.82 | 4.25 | 2.91 | 4.00 | 145.5 |
| 256T | 12.20 | 11.57 | 22.40 | 6.25 | 5.00 | 10.00 | 0.66 | 0.53 | 3.15 | - | 12.80 | 1.416 | 0.375 | 1.625 | 2.05 | 11.10 | 8.82 | 4.25 | 2.91 | 4.00 | 145.5 |
| 284T | 12.76 | 11.26 | 23.82 | 7.00 | 5.50 | 9.50 | 0.70 | 0.53 | 3.15 | - | 14.76 | 1.591 | 0.500 | 1.875 | 2.36 | 13.18 | 10.55 | 4.75 | 3.28 | 4.62 | 168.4 |
| 284TS | 12.76 | 11.26 | 22.45 | 7.00 | 5.50 | 9.50 | 0.70 | 0.53 | 3.15 | - | 14.76 | 1.416 | 0.375 | 1.625 | 2.36 | 13.18 | 10.55 | 4.75 | 1.91 | 3.25 | 168.4 |
| 286T | 12.76 | 12.76 | 25.32 | 7.00 | 5.50 | 11.00 | 0.70 | 0.53 | 3.15 | - | 14.76 | 1.591 | 0.500 | 1.875 | 2.36 | 13.18 | 10.55 | 4.75 | 3.28 | 4.62 | 168.4 |
| 286TS | 12.76 | 12.76 | 23.95 | 7.00 | 5.50 | 11.00 | 0.70 | 0.53 | 3.15 | - | 14.76 | 1.416 | 0.375 | 1.625 | 2.36 | 13.18 | 10.55 | 4.75 | 1.91 | 3.25 | 168.4 |
| 324T | 14.88 | 12.68 | 26.26 | 8.00 | 6.25 | 10.50 | 0.91 | 0.66 | 3.15 | 3.15 | 16.69 | 1.845 | 0.500 | 2.125 | 3.07 | 14.09 | 11.61 | 5.25 | 3.91 | 5.25 | 188.2 |
| 324TS | 14.88 | 12.68 | 24.76 | 8.00 | 6.25 | 10.50 | 0.91 | 0.66 | 3.15 | 3.15 | 16.69 | 1.591 | 0.500 | 1.875 | 3.07 | 14.09 | 11.61 | 5.25 | 2.03 | 3.75 | 188.2 |
| 326T | 14.88 | 14.17 | 27.76 | 8.00 | 6.25 | 12.00 | 0.91 | 0.66 | 3.15 | 3.15 | 16.69 | 1.845 | 0.500 | 2.125 | 3.07 | 14.09 | 11.61 | 5.25 | 3.91 | 5.25 | 188.2 |
| 326TS | 14.88 | 14.17 | 26.26 | 8.00 | 6.25 | 12.00 | 0.91 | 0.66 | 3.15 | 3.15 | 16.69 | 1.591 | 0.500 | 1.875 | 3.07 | 14.09 | 11.61 | 5.25 | 2.03 | 3.75 | 188.2 |
| 364T | 16.38 | 13.43 | 29.13 | 9.00 | 7.00 | 11.25 | 1.01 | 0.66 | 3.55 | 2.95 | 18.31 | 2.021 | 0.625 | 2.375 | 2.36 | 14.81 | 12.24 | 5.88 | 4.28 | 5.88 | 210.5 |
| 364TS | 16.38 | 13.43 | 27.00 | 9.00 | 7.00 | 11.25 | 1.01 | 0.66 | 3.55 | 2.95 | 18.31 | 1.591 | 0.500 | 1.875 | 2.36 | 14.81 | 12.24 | 5.88 | 2.03 | 3.75 | 210.5 |
| 365T | 16.38 | 14.41 | 30.13 | 9.00 | 7.00 | 12.25 | 1.01 | 0.66 | 3.55 | 2.95 | 18.31 | 2.021 | 0.625 | 2.375 | 2.36 | 14.81 | 12.24 | 5.88 | 4.28 | 5.88 | 210.5 |
| 365TS | 16.38 | 14.41 | 28.00 | 9.00 | 7.00 | 12.25 | 1.01 | 0.66 | 3.55 | 2.95 | 18.31 | 1.591 | 0.500 | 1.875 | 2.36 | 14.81 | 12.24 | 5.88 | 2.03 | 3.75 | 210.5 |

Dimensions subject to change without notice. Refer to factory for Certified drawing.

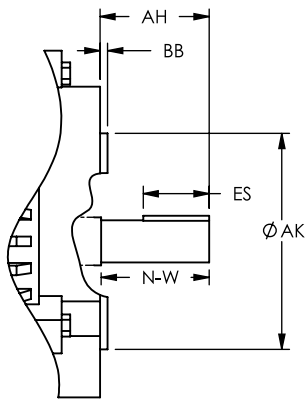
10/28/2010

FOOTED TEFC, INTEGRAL HORSEPOWER-E MODEL MOTORS (143T-365T)

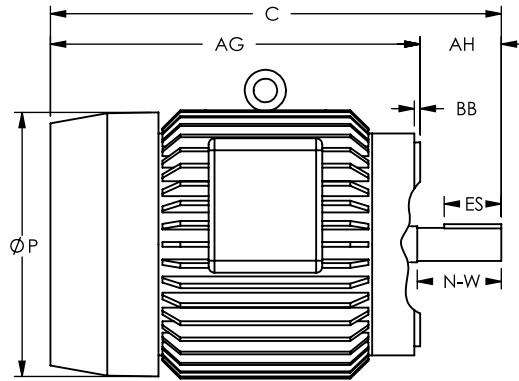


| FRAME | A | B | C | D | E | 2F | G | H | J | K | P | R | S | U | AA | AB | BA | ES | O+T |
|-------|-------|-------|-------|------|------|-------|-----|-----|------|------|-------|-------|-------|-------|------|-------|------|------|-------|
| 143T | 6.93 | 4.88 | 12.25 | 3.50 | 2.75 | 4.00 | .35 | .34 | 1.57 | - | 8.15 | 0.771 | 0.188 | 0.875 | 1.10 | 7.00 | 2.25 | 1.41 | 7.57 |
| 145T | 6.93 | 5.87 | 13.24 | 3.50 | 2.75 | 5.00 | .35 | .34 | 1.57 | - | 8.15 | 0.771 | 0.188 | 0.875 | 1.10 | 7.00 | 2.25 | 1.41 | 7.57 |
| 182T | 8.66 | 5.59 | 14.43 | 4.50 | 3.75 | 4.50 | .56 | .41 | 1.57 | - | 9.55 | 0.986 | 0.250 | 1.125 | 1.10 | 7.87 | 2.75 | 1.78 | 10.90 |
| 184T | 8.66 | 6.61 | 15.42 | 4.50 | 3.75 | 5.50 | .56 | .41 | 1.57 | - | 9.55 | 0.986 | 0.250 | 1.125 | 1.10 | 7.87 | 2.75 | 1.78 | 10.90 |
| 213T | 10.23 | 6.89 | 17.94 | 5.25 | 4.25 | 5.50 | .65 | .41 | 1.97 | - | 11.20 | 1.201 | 0.312 | 1.375 | 1.38 | 8.86 | 3.50 | 2.41 | 12.49 |
| 215T | 10.23 | 8.39 | 19.43 | 5.25 | 4.25 | 7.00 | .65 | .41 | 1.97 | - | 11.20 | 1.201 | 0.312 | 1.375 | 1.38 | 8.86 | 3.50 | 2.41 | 12.49 |
| 254T | 12.12 | 9.84 | 23.40 | 6.25 | 5.00 | 8.25 | .71 | .53 | 2.36 | - | 12.80 | 1.416 | 0.375 | 1.625 | 2.05 | 11.10 | 4.25 | 2.91 | 14.60 |
| 256T | 12.12 | 11.60 | 25.10 | 6.25 | 5.00 | 10.00 | .71 | .53 | 2.36 | - | 12.80 | 1.416 | 0.375 | 1.625 | 2.05 | 11.10 | 4.25 | 2.91 | 14.60 |
| 284T | 12.76 | 11.26 | 26.90 | 7.00 | 5.50 | 9.50 | .79 | .53 | 2.36 | 3.25 | 15.75 | 1.591 | 0.500 | 1.875 | 2.48 | 15.48 | 4.75 | 3.28 | 17.30 |
| 284TS | 12.76 | 11.26 | 25.53 | 7.00 | 5.50 | 9.50 | .79 | .53 | 2.36 | 3.25 | 15.75 | 1.416 | 0.375 | 1.625 | 2.48 | 15.48 | 4.75 | 1.91 | 17.30 |
| 286T | 12.76 | 12.76 | 28.40 | 7.00 | 5.50 | 11.00 | .79 | .53 | 2.36 | 3.25 | 15.75 | 1.591 | 0.500 | 1.875 | 2.48 | 15.48 | 4.75 | 3.28 | 17.30 |
| 286TS | 12.76 | 12.76 | 27.03 | 7.00 | 5.50 | 11.00 | .79 | .53 | 2.36 | 3.25 | 15.75 | 1.416 | 0.375 | 1.625 | 2.48 | 15.48 | 4.75 | 1.91 | 17.30 |
| 324T | 14.88 | 12.68 | 29.82 | 8.00 | 6.25 | 10.50 | .91 | .66 | 3.15 | 3.15 | 17.75 | 1.845 | 0.500 | 2.125 | 2.48 | 16.70 | 5.25 | 3.91 | 19.13 |
| 324TS | 14.88 | 12.68 | 28.32 | 8.00 | 6.25 | 10.50 | .91 | .66 | 3.15 | 3.15 | 17.75 | 1.591 | 0.500 | 1.875 | 2.48 | 16.70 | 5.25 | 2.03 | 19.13 |
| 326T | 14.88 | 14.17 | 31.32 | 8.00 | 6.25 | 12.00 | .91 | .66 | 3.15 | 3.15 | 17.75 | 1.845 | 0.500 | 2.125 | 2.48 | 16.70 | 5.25 | 3.91 | 19.13 |
| 326TS | 14.88 | 14.17 | 29.82 | 8.00 | 6.25 | 12.00 | .91 | .66 | 3.15 | 3.15 | 17.75 | 1.591 | 0.500 | 1.875 | 2.48 | 16.70 | 5.25 | 2.03 | 19.13 |
| 364T | 16.40 | 14.40 | 32.54 | 9.00 | 7.00 | 11.25 | .98 | .66 | 3.15 | 4.73 | 19.10 | 2.021 | 0.625 | 2.375 | 3.58 | 16.63 | 5.88 | 4.28 | 21.30 |
| 364TS | 16.40 | 14.40 | 30.41 | 9.00 | 7.00 | 11.25 | .98 | .66 | 3.15 | 4.73 | 19.10 | 1.591 | 0.500 | 1.875 | 3.58 | 16.63 | 5.88 | 2.03 | 21.30 |
| 365T | 16.40 | 15.40 | 33.52 | 9.00 | 7.00 | 12.25 | .98 | .66 | 3.15 | 4.73 | 19.10 | 2.021 | 0.625 | 2.375 | 3.58 | 16.63 | 5.88 | 4.28 | 21.30 |
| 365TS | 16.40 | 15.40 | 31.39 | 9.00 | 7.00 | 12.25 | .98 | .66 | 3.15 | 4.73 | 19.10 | 1.591 | 0.500 | 1.875 | 3.58 | 16.63 | 5.88 | 2.03 | 21.30 |

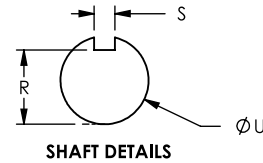
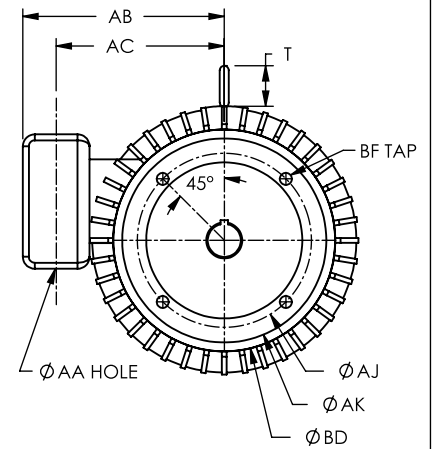
C-FACE TEFC, INTEGRAL HORSEPOWER-E MODEL MOTORS (143TC-365TC)



143TC & 145TC ONLY

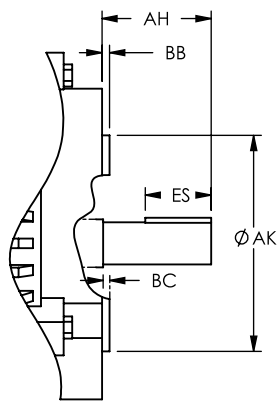


180TC AND LARGER

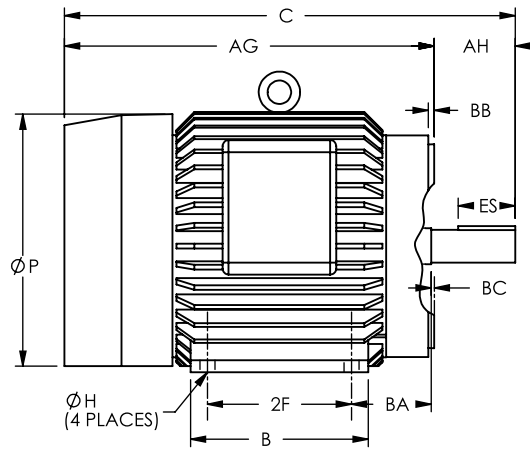


| FRAME | C | P | R | S | T | U | AA | AB | AH | AJ | AK | BB | BD | BF | ES | N-W |
|--------|-------|-------|-------|-------|------|-------|------|-------|------|--------|-------|------|-------|------------|------|------|
| 143TC | 11.80 | 7.87 | 0.771 | 0.188 | - | 0.875 | 0.86 | 6.10 | 2.12 | 5.875 | 4.50 | 0.16 | 6.50 | (4) 3/8-16 | 1.41 | 2.25 |
| 145TC | 12.79 | 7.87 | 0.771 | 0.188 | - | 0.875 | 0.86 | 6.10 | 2.12 | 5.875 | 4.50 | 0.16 | 6.50 | (4) 3/8-16 | 1.41 | 2.25 |
| 182TC | 13.87 | 8.85 | 0.986 | 0.250 | 1.63 | 1.125 | 0.90 | 6.69 | 2.62 | 7.250 | 8.50 | 0.25 | 9.00 | (4) 1/2-13 | 1.78 | 2.75 |
| 184TC | 14.92 | 8.85 | 0.986 | 0.250 | 1.63 | 1.125 | 0.90 | 6.69 | 2.62 | 7.250 | 8.50 | 0.25 | 9.00 | (4) 1/2-13 | 1.78 | 2.75 |
| 213TC | 17.94 | 11.26 | 1.201 | 0.312 | 1.65 | 1.375 | 1.38 | 8.39 | 3.12 | 7.250 | 8.50 | 0.25 | 9.00 | (4) 1/2-13 | 2.41 | 3.38 |
| 215TC | 19.43 | 11.26 | 1.201 | 0.312 | 1.65 | 1.375 | 1.38 | 8.39 | 3.12 | 7.250 | 8.50 | 0.25 | 9.00 | (4) 1/2-13 | 2.41 | 3.38 |
| 254TC | 23.40 | 12.80 | 1.416 | 0.375 | 2.00 | 1.625 | 2.05 | 10.83 | 3.75 | 7.250 | 8.50 | 0.25 | 10.00 | (4) 1/2-13 | 2.91 | 4.00 |
| 256TC | 25.10 | 12.80 | 1.416 | 0.375 | 2.00 | 1.625 | 2.05 | 10.83 | 3.75 | 7.250 | 8.50 | 0.25 | 10.00 | (4) 1/2-13 | 2.91 | 4.00 |
| 284TC | 26.90 | 15.67 | 1.591 | 0.500 | 2.36 | 1.875 | 2.48 | 13.40 | 4.38 | 9.000 | 10.50 | 0.25 | 11.25 | (4) 1/2-13 | 3.28 | 4.62 |
| 284TSC | 25.53 | 15.67 | 1.416 | 0.375 | 2.36 | 1.625 | 2.48 | 13.40 | 3.00 | 9.000 | 10.50 | 0.25 | 11.25 | (4) 1/2-13 | 1.91 | 3.25 |
| 286TC | 28.40 | 15.67 | 1.591 | 0.500 | 2.36 | 1.875 | 2.48 | 13.40 | 4.38 | 9.000 | 10.50 | 0.25 | 11.25 | (4) 1/2-13 | 3.28 | 4.62 |
| 286TSC | 27.03 | 15.67 | 1.416 | 0.375 | 2.36 | 1.625 | 2.48 | 13.40 | 3.00 | 9.000 | 10.50 | 0.25 | 11.25 | (4) 1/2-13 | 1.91 | 3.25 |
| 324TC | 29.82 | 17.79 | 1.845 | 0.500 | 2.36 | 2.125 | 2.48 | 14.40 | 5.00 | 11.000 | 12.50 | 0.25 | 14.00 | (4) 5/8-11 | 3.91 | 5.25 |
| 324TSC | 28.32 | 17.79 | 1.591 | 0.500 | 2.36 | 1.875 | 2.48 | 14.40 | 3.50 | 11.000 | 12.50 | 0.25 | 14.00 | (4) 5/8-11 | 2.03 | 3.75 |
| 326TC | 31.32 | 17.79 | 1.845 | 0.500 | 2.36 | 2.125 | 2.48 | 14.40 | 5.00 | 11.000 | 12.50 | 0.25 | 14.00 | (4) 5/8-11 | 3.91 | 5.25 |
| 326TSC | 29.82 | 17.79 | 1.591 | 0.500 | 2.36 | 1.875 | 2.48 | 14.40 | 3.50 | 11.000 | 12.50 | 0.25 | 14.00 | (4) 5/8-11 | 2.03 | 3.75 |
| 364TC | 32.54 | 19.10 | 2.021 | 0.625 | 2.80 | 2.375 | 3.58 | 16.63 | 5.62 | 11.000 | 12.50 | 0.25 | 14.00 | (8) 5/8-11 | 4.28 | 5.88 |
| 364TSC | 30.41 | 19.10 | 1.591 | 0.500 | 2.80 | 1.875 | 3.58 | 16.63 | 3.50 | 11.000 | 12.50 | 0.25 | 14.00 | (8) 5/8-11 | 2.03 | 3.75 |
| 365TC | 33.52 | 19.10 | 2.021 | 0.625 | 2.80 | 2.375 | 3.58 | 16.63 | 5.62 | 11.000 | 12.50 | 0.25 | 14.00 | (8) 5/8-11 | 4.28 | 5.88 |
| 365TSC | 21.39 | 19.10 | 1.591 | 0.500 | 2.80 | 1.875 | 3.58 | 16.63 | 3.50 | 11.000 | 12.50 | 0.25 | 14.00 | (8) 5/8-11 | 2.03 | 3.75 |

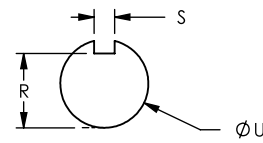
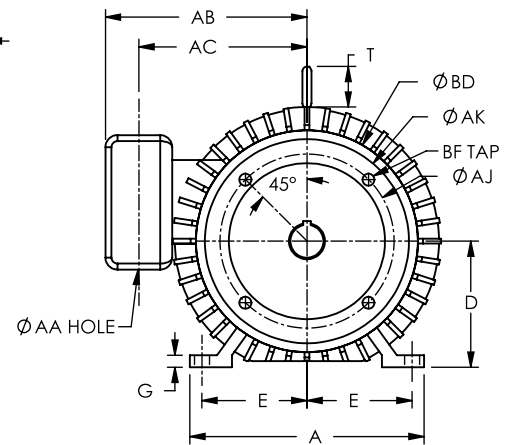
C-FACE FOOTED TEFC, INTEGRAL HORSEPOWER-E MODEL MOTORS (143TC-365TC)



143TC & 145TC ONLY



180TC AND LARGER



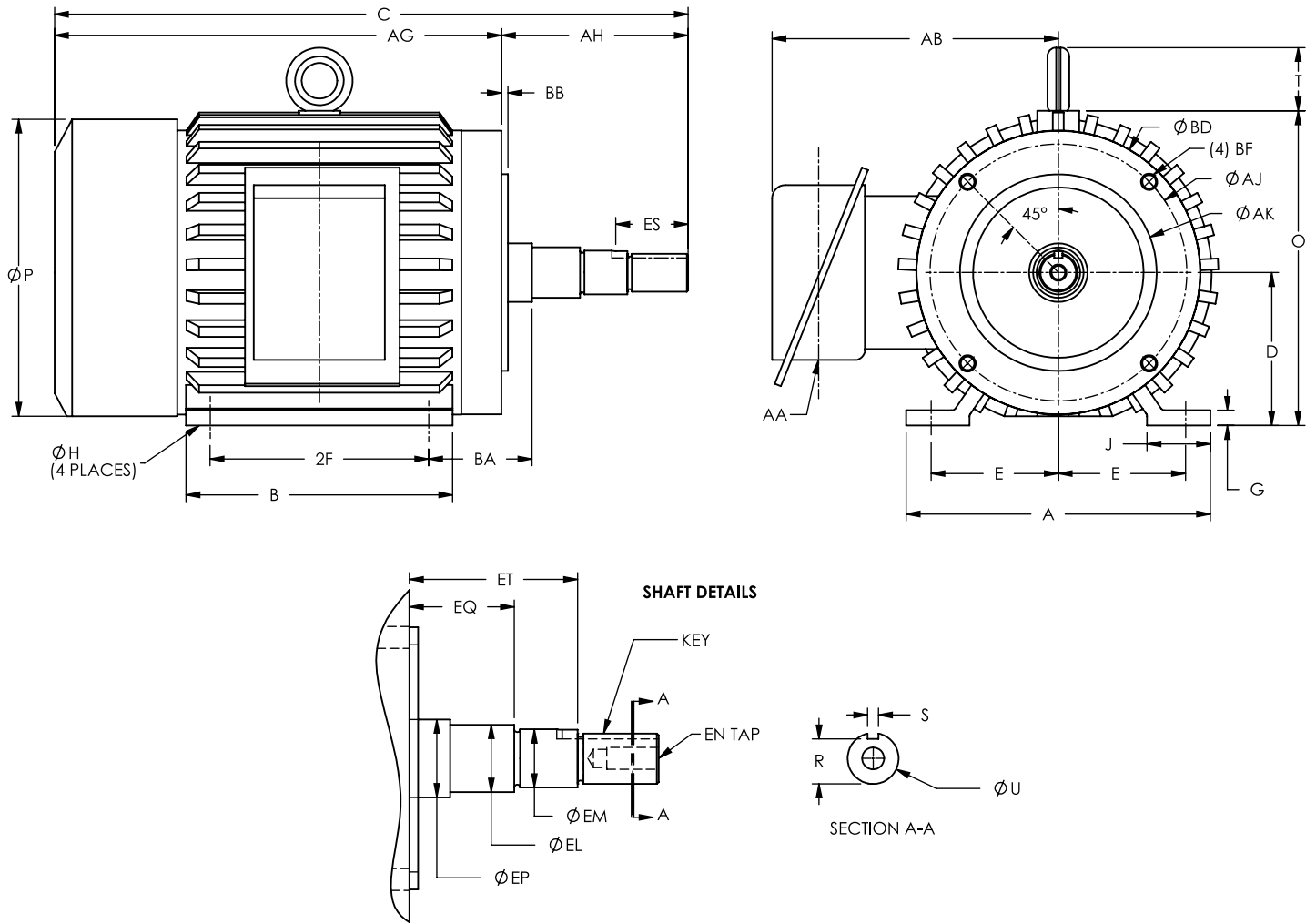
SHAFT DETAILS

| FRAME | A | B | C | D | E | 2F | G | H | P | R | S | T | U | AA | AB | AH | AJ | AK | BA | BB | BC | BF | ES |
|--------|-------|-------|-------|------|------|-------|-----|-----|-------|-------|-------|------|-------|------|-------|------|--------|-------|------|------|-----|------------|------|
| 143TC | 6.93 | 4.88 | 11.80 | 3.50 | 2.75 | 4.00 | .35 | .34 | 7.87 | 0.771 | 0.188 | - | 0.875 | 0.86 | 6.10 | 2.12 | 5.875 | 4.50 | 2.25 | 0.16 | .12 | (4) 3/8-16 | 1.41 |
| 145TC | 6.93 | 5.87 | 12.79 | 3.50 | 2.75 | 5.00 | .35 | .34 | 7.87 | 0.771 | 0.188 | - | 0.875 | 0.86 | 6.10 | 2.12 | 5.875 | 4.50 | 2.25 | 0.16 | .12 | (4) 3/8-16 | 1.41 |
| 182TC | 8.66 | 5.59 | 13.87 | 4.50 | 3.75 | 4.50 | .56 | .41 | 8.85 | 0.986 | 0.250 | 1.63 | 1.125 | 0.90 | 6.69 | 2.62 | 7.250 | 8.50 | 2.75 | 0.25 | .12 | (4) 1/2-13 | 1.78 |
| 184TC | 8.66 | 6.61 | 14.92 | 4.50 | 3.75 | 5.50 | .56 | .41 | 8.85 | 0.986 | 0.250 | 1.63 | 1.125 | 0.90 | 6.69 | 2.62 | 7.250 | 8.50 | 2.75 | 0.25 | .12 | (4) 1/2-13 | 1.78 |
| 213TC | 10.23 | 6.89 | 17.94 | 5.25 | 4.25 | 5.50 | .65 | .41 | 11.26 | 1.201 | 0.312 | 1.65 | 1.375 | 1.38 | 8.39 | 3.12 | 7.250 | 8.50 | 3.50 | 0.25 | .25 | (4) 1/2-13 | 2.41 |
| 215TC | 10.23 | 8.39 | 19.43 | 5.25 | 4.25 | 7.00 | .65 | .41 | 11.26 | 1.201 | 0.312 | 1.65 | 1.375 | 1.38 | 8.39 | 3.12 | 7.250 | 8.50 | 3.50 | 0.25 | .25 | (4) 1/2-13 | 2.41 |
| 254TC | 12.12 | 9.84 | 23.40 | 6.25 | 5.00 | 8.25 | .71 | .53 | 12.80 | 1.416 | 0.375 | 2.00 | 1.625 | 2.05 | 10.83 | 3.75 | 7.250 | 8.50 | 4.25 | 0.25 | .25 | (4) 1/2-13 | 2.91 |
| 256TC | 12.12 | 11.60 | 25.10 | 6.25 | 5.00 | 10.00 | .71 | .53 | 12.80 | 1.416 | 0.375 | 2.00 | 1.625 | 2.05 | 10.83 | 3.75 | 7.250 | 8.50 | 4.25 | 0.25 | .25 | (4) 1/2-13 | 2.91 |
| 284TC | 12.76 | 11.26 | 26.90 | 7.00 | 5.50 | 9.50 | .79 | .53 | 15.67 | 1.591 | 0.500 | 2.36 | 1.875 | 2.48 | 13.40 | 4.38 | 9.000 | 10.50 | 4.75 | 0.25 | .25 | (4) 1/2-13 | 3.28 |
| 284TSC | 12.76 | 11.26 | 25.53 | 7.00 | 5.50 | 9.50 | .79 | .53 | 15.67 | 1.416 | 0.375 | 2.36 | 1.625 | 2.48 | 13.40 | 3.00 | 9.000 | 10.50 | 4.75 | 0.25 | .25 | (4) 1/2-13 | 1.91 |
| 286TC | 12.76 | 12.76 | 28.40 | 7.00 | 5.50 | 11.00 | .79 | .53 | 15.67 | 1.591 | 0.500 | 2.36 | 1.875 | 2.48 | 13.40 | 4.38 | 9.000 | 10.50 | 4.75 | 0.25 | .25 | (4) 1/2-13 | 3.28 |
| 286TSC | 12.76 | 12.76 | 27.03 | 7.00 | 5.50 | 11.00 | .79 | .53 | 15.67 | 1.416 | 0.375 | 2.36 | 1.625 | 2.48 | 13.40 | 3.00 | 9.000 | 10.50 | 4.75 | 0.25 | .25 | (4) 1/2-13 | 1.91 |
| 324TC | 14.88 | 12.68 | 29.82 | 8.00 | 6.25 | 10.50 | .91 | .66 | 17.79 | 1.845 | 0.500 | 2.36 | 2.125 | 2.48 | 14.40 | 5.00 | 11.000 | 12.50 | 5.25 | 0.25 | .25 | (4) 5/8-11 | 3.91 |
| 324TSC | 14.88 | 12.68 | 28.32 | 8.00 | 6.25 | 10.50 | .91 | .66 | 17.79 | 1.591 | 0.500 | 2.36 | 1.875 | 2.48 | 14.40 | 3.50 | 11.000 | 12.50 | 5.25 | 0.25 | .25 | (4) 5/8-11 | 2.03 |
| 326TC | 14.88 | 14.17 | 31.32 | 8.00 | 6.25 | 12.00 | .91 | .66 | 17.79 | 1.845 | 0.500 | 2.36 | 2.125 | 2.48 | 14.40 | 5.00 | 11.000 | 12.50 | 5.25 | 0.25 | .25 | (4) 5/8-11 | 3.91 |
| 326TSC | 14.88 | 14.17 | 29.82 | 8.00 | 6.25 | 12.00 | .91 | .66 | 17.79 | 1.591 | 0.500 | 2.36 | 1.875 | 2.48 | 14.40 | 3.50 | 11.000 | 12.50 | 5.25 | 0.25 | .25 | (4) 5/8-11 | 2.03 |
| 364TC | 16.40 | 14.40 | 32.54 | 9.00 | 7.00 | 11.25 | .98 | .66 | 19.10 | 2.021 | 0.625 | 2.80 | 2.375 | 3.58 | 16.63 | 5.62 | 11.000 | 12.50 | 5.88 | 0.25 | .25 | (8) 5/8-11 | 4.28 |
| 364TSC | 16.40 | 14.40 | 30.41 | 9.00 | 7.00 | 11.25 | .98 | .66 | 19.10 | 1.591 | 0.500 | 2.80 | 1.875 | 3.58 | 16.63 | 3.50 | 11.000 | 12.50 | 5.88 | 0.25 | .25 | (8) 5/8-11 | 2.03 |
| 365TC | 16.40 | 15.40 | 33.52 | 9.00 | 7.00 | 12.25 | .98 | .66 | 19.10 | 2.021 | 0.625 | 2.80 | 2.375 | 3.58 | 16.63 | 5.62 | 11.000 | 12.50 | 5.88 | 0.25 | .25 | (8) 5/8-11 | 4.28 |
| 365TSC | 16.40 | 15.40 | 31.39 | 9.00 | 7.00 | 12.25 | .98 | .66 | 19.10 | 1.591 | 0.500 | 2.80 | 1.875 | 3.58 | 16.63 | 3.50 | 11.000 | 12.50 | 5.88 | 0.25 | .25 | (8) 5/8-11 | 2.03 |

Dimensions subject to change without notice. Refer to factory for Certified drawing.

10/28/2010

TEFC JM STYLE CLOSE COUPLED PUMP E-MODEL MOTORS (143JM-184JM)

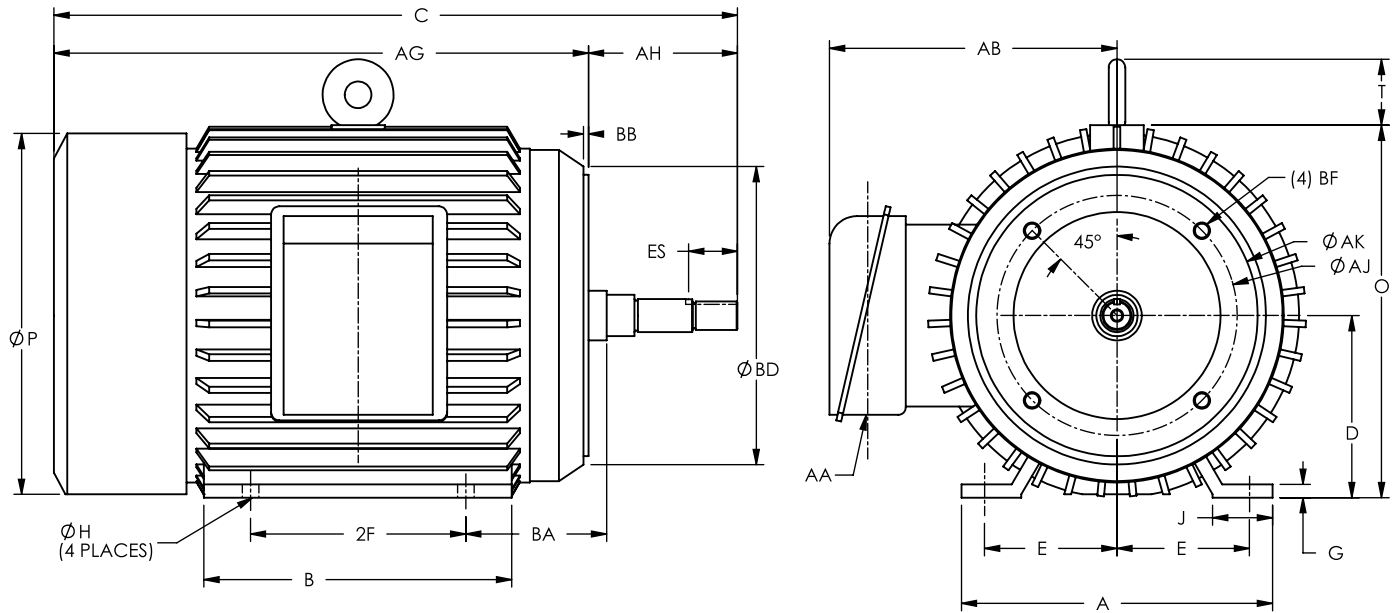


| FRAME | A | B | C | D | E | 2F | G | ØH | J | O | P | R | S | T | U | AA | AB |
|-------|------|------|-------|------|------|------|-----|-----|------|------|------|------|------|------|-------|----------|------|
| 143JM | 6.93 | 4.88 | 14.53 | 3.50 | 2.75 | 4.00 | .35 | .34 | 1.57 | 7.57 | 8.15 | .771 | .188 | - | .8745 | 3/4" NPT | 6.57 |
| 145JM | 6.93 | 5.87 | 15.51 | 3.50 | 2.75 | 5.00 | .35 | .34 | 1.57 | 7.57 | 8.15 | .771 | .188 | - | .8745 | 3/4" NPT | 6.57 |
| 182JM | 8.66 | 5.59 | 16.17 | 4.50 | 3.75 | 4.50 | .56 | .41 | 1.57 | 9.22 | 9.55 | .771 | .188 | 1.65 | .8745 | 3/4" NPT | 7.39 |
| 184JM | 8.66 | 6.11 | 17.15 | 4.50 | 3.75 | 5.50 | .56 | .41 | 1.57 | 9.22 | 9.55 | .771 | .188 | 1.65 | .8745 | 3/4" NPT | 7.39 |

| FRAME | AG | AH | AJ | AK | BA | BB | BD | BF | EL | EM | EN | EP | EQ | ES | ET |
|-------|-------|-------|------|------|------|-----|------|--------|-------|------|--------|------|------|------|------|
| 143JM | 10.28 | 4.250 | 5.88 | 4.50 | 2.38 | .16 | 6.50 | 3/8-16 | 1.156 | 1.00 | 3/8-16 | 1.16 | .640 | 1.65 | 2.89 |
| 145JM | 11.26 | 4.250 | 5.88 | 4.50 | 2.38 | .16 | 6.50 | 3/8-16 | 1.156 | 1.00 | 3/8-16 | 1.16 | .640 | 1.65 | 2.89 |
| 182JM | 11.92 | 4.250 | 5.88 | 4.50 | 2.88 | .16 | 6.50 | 3/8-16 | 1.250 | 1.00 | 3/8-16 | 1.25 | .640 | 1.65 | 2.89 |
| 184JM | 12.90 | 4.250 | 5.88 | 4.50 | 2.88 | .16 | 6.50 | 3/8-16 | 1.250 | 1.00 | 3/8-16 | 1.25 | .640 | 1.65 | 2.89 |

Dimensions subject to change without notice. Refer to factory for Certified drawing.

TEFC JM STYLE CLOSE COUPLED PUMP E-MODEL MOTORS (215JM-326JM)



SHAFT DETAILS

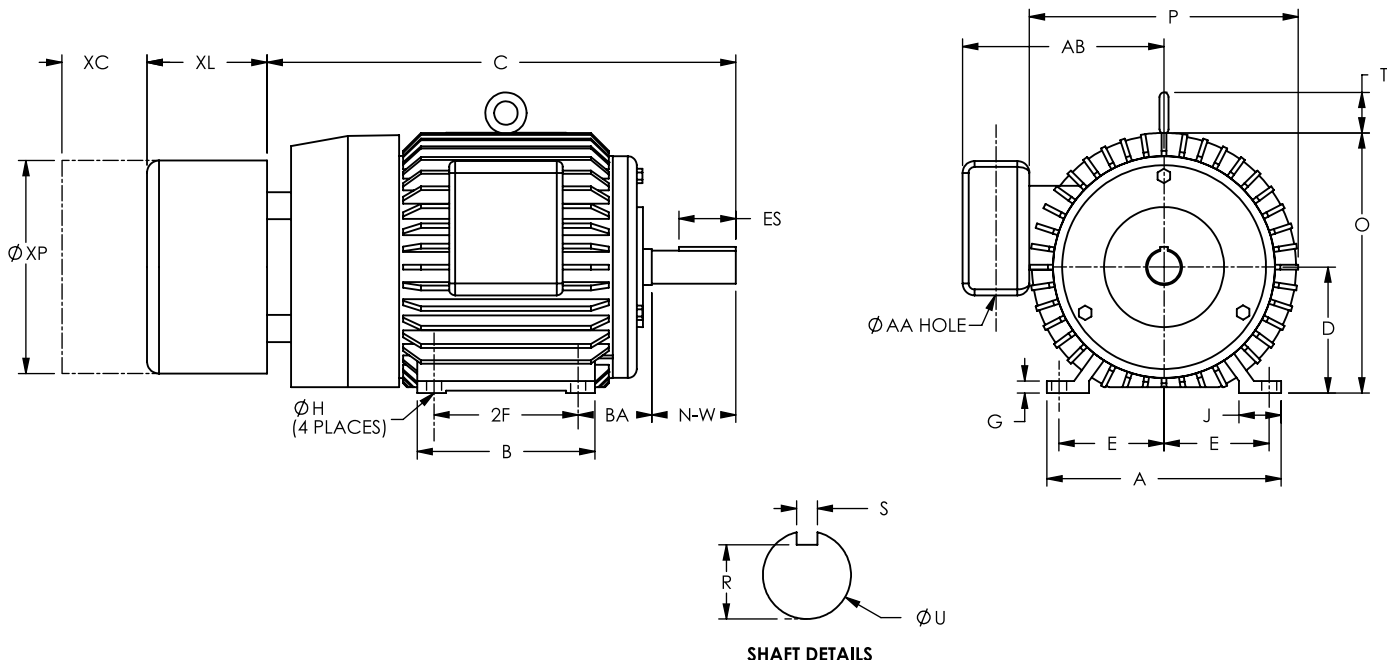
| FRAME | A | B | C | D | E | 2F | G | ØH | J | O | P | R | S | T | U | AA | AB |
|-------|-------|-------|-------|------|------|-------|-----|-----|------|-------|-------|-------|------|------|-------|------------|-------|
| 213JM | 10.23 | 6.89 | 19.17 | 5.25 | 4.25 | 5.50 | .65 | .41 | 1.97 | 10.84 | 11.20 | .771 | .188 | 1.65 | .8745 | 1" NPT | 9.29 |
| 215JM | 10.23 | 8.39 | 20.66 | 5.25 | 4.25 | 7.00 | .65 | .41 | 1.97 | 10.84 | 11.20 | .771 | .188 | 1.65 | .8745 | 1" NPT | 9.29 |
| 254JM | 12.12 | 9.84 | 24.96 | 6.25 | 5.00 | 8.25 | .71 | .53 | 2.36 | 12.60 | 12.80 | 1.112 | .250 | 2.00 | 1.249 | 1 1/4" NPT | 11.14 |
| 256JM | 12.12 | 11.60 | 26.66 | 6.25 | 5.00 | 10.00 | .71 | .53 | 2.36 | 12.60 | 12.80 | 1.112 | .250 | 2.00 | 1.249 | 1 1/4" NPT | 11.14 |
| 284JM | 12.76 | 11.26 | 27.84 | 7.00 | 5.50 | 9.50 | .79 | .53 | 2.36 | 14.94 | 15.75 | 1.112 | .250 | 2.36 | 1.249 | 1 1/2" NPT | 13.98 |
| 286JM | 12.76 | 12.76 | 29.34 | 7.00 | 5.50 | 11.00 | .79 | .53 | 2.36 | 14.94 | 15.75 | 1.112 | .250 | 2.36 | 1.249 | 1 1/2" NPT | 13.98 |
| 324JM | 14.88 | 12.68 | 30.01 | 8.00 | 6.25 | 10.50 | .91 | .66 | 3.15 | 16.77 | 17.75 | 1.112 | .250 | 2.36 | 1.249 | 2" NPT | 14.37 |
| 326JM | 14.88 | 14.17 | 31.63 | 8.00 | 6.25 | 12.00 | .91 | .66 | 3.15 | 16.77 | 17.75 | 1.112 | .250 | 2.36 | 1.249 | 2" NPT | 14.37 |

| FRAME | AG | AH | AJ | AK | BA | BB | BD | BF | EL | EM | EN | EP | EQ | ES | ET |
|-------|-------|------|-------|-------|------|-----|-------|--------|-------|-------|--------|------|-----|------|------|
| 213JM | 14.92 | 4.25 | 7.25 | 8.50 | 3.78 | .31 | 9.00 | 1/2-13 | 1.250 | 1.000 | 3/8-16 | 1.75 | .62 | 1.66 | 2.87 |
| 215JM | 16.41 | 4.25 | 7.25 | 8.50 | 3.78 | .31 | 9.00 | 1/2-13 | 1.250 | 1.000 | 3/8-16 | 1.75 | .62 | 1.66 | 2.87 |
| 254JM | 1.71 | 5.25 | 7.25 | 8.50 | 4.25 | .31 | 10.00 | 1/2-13 | 1.750 | 1.375 | 1/2-13 | 1.75 | .62 | 2.53 | 3.00 |
| 256JM | 21.41 | 5.25 | 7.25 | 8.50 | 4.25 | .31 | 10.00 | 1/2-13 | 1.750 | 1.375 | 1/2-13 | 1.75 | .62 | 2.53 | 3.00 |
| 284JM | 22.59 | 5.25 | 11.00 | 12.50 | 4.75 | .31 | 14.00 | 5/8-11 | 1.750 | 1.375 | 1/2-13 | 2.13 | .62 | 2.53 | 3.00 |
| 286JM | 24.09 | 5.25 | 11.00 | 12.50 | 4.75 | .31 | 14.00 | 5/8-11 | 1.750 | 1.375 | 1/2-13 | 2.13 | .62 | 2.53 | 3.00 |
| 324JM | 24.76 | 5.25 | 11.00 | 12.50 | 5.25 | .31 | 14.00 | 5/8-11 | 1.750 | 1.375 | 1/2-13 | 2.13 | .62 | 2.53 | 3.00 |
| 326JM | 26.38 | 5.25 | 11.00 | 12.50 | 5.25 | .31 | 14.00 | 5/8-11 | 1.750 | 1.375 | 1/2-13 | 2.13 | .62 | 2.53 | 3.00 |

Dimensions subject to change without notice. Refer to factory for Certified drawing.

10/28/2010

FOOTED TEFC, INTEGRAL HORSEPOWER-E MODEL BRAKE MOTORS

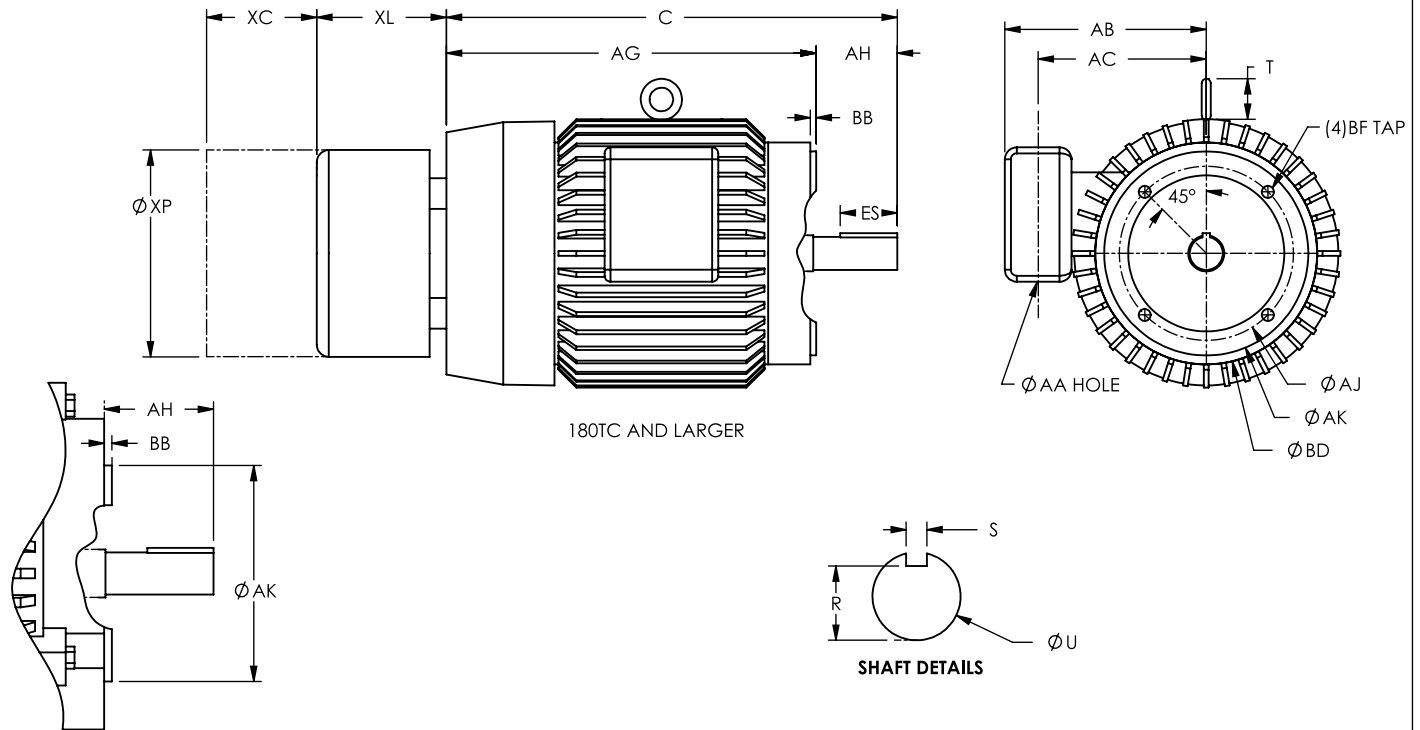


| FRAME | A | B | C | D | E | 2F | G | H | J | P | R | S | U | AA | AB | BA | ES | N-W | O+T |
|-------|-------|-------|-------|------|------|-------|-----|-----|------|-------|-------|-------|-------|------|-------|------|------|------|-------|
| B143T | 6.93 | 4.88 | 13.14 | 3.50 | 2.75 | 4.00 | .35 | .34 | 1.57 | 8.15 | 0.771 | 0.188 | 0.875 | 1.10 | 7.00 | 2.25 | 1.41 | 2.25 | 7.57 |
| B145T | 6.93 | 5.87 | 14.13 | 3.50 | 2.75 | 5.00 | .35 | .34 | 1.57 | 8.15 | 0.771 | 0.188 | 0.875 | 1.10 | 7.00 | 2.25 | 1.41 | 2.25 | 7.57 |
| B182T | 8.66 | 5.59 | 15.22 | 4.50 | 3.75 | 4.50 | .56 | .41 | 1.57 | 9.55 | 0.986 | 0.250 | 1.125 | 1.10 | 7.87 | 2.75 | 1.78 | 2.75 | 10.90 |
| B184T | 8.66 | 6.61 | 16.28 | 4.50 | 3.75 | 5.50 | .56 | .41 | 1.57 | 9.55 | 0.986 | 0.250 | 1.125 | 1.10 | 7.87 | 2.75 | 1.78 | 2.75 | 10.90 |
| B213T | 10.23 | 6.89 | 18.80 | 5.25 | 4.25 | 5.50 | .65 | .41 | 1.97 | 11.20 | 1.201 | 0.312 | 1.375 | 1.38 | 8.86 | 3.50 | 2.41 | 3.38 | 12.49 |
| B215T | 10.23 | 8.39 | 20.30 | 5.25 | 4.25 | 7.00 | .65 | .41 | 1.97 | 11.20 | 1.201 | 0.312 | 1.375 | 1.38 | 8.86 | 3.50 | 2.41 | 3.38 | 12.49 |
| B254T | 12.12 | 9.84 | 25.00 | 6.25 | 5.00 | 8.25 | .71 | .53 | 2.36 | 12.80 | 1.416 | 0.375 | 1.625 | 2.05 | 11.10 | 4.25 | 2.91 | 4.00 | 14.60 |
| B256T | 12.12 | 11.60 | 26.70 | 6.25 | 5.00 | 10.00 | .71 | .53 | 2.36 | 12.80 | 1.416 | 0.375 | 1.625 | 2.05 | 11.10 | 4.25 | 2.91 | 4.00 | 14.60 |
| B284T | 12.76 | 11.26 | 28.90 | 7.00 | 5.50 | 9.50 | .79 | .53 | 2.36 | 15.75 | 1.591 | 0.500 | 1.875 | 2.48 | 15.48 | 4.75 | 3.28 | 4.62 | 17.30 |
| B286T | 12.76 | 12.76 | 30.40 | 7.00 | 5.50 | 11.00 | .79 | .53 | 2.36 | 15.75 | 1.591 | 0.500 | 1.875 | 2.48 | 15.48 | 4.75 | 3.28 | 4.62 | 17.30 |

| BRAKE INFO | | | | | | | | | |
|------------|--------|--------------------|------|------|------|-----------------|------|------|------|
| FRAME | FT. LB | STANDARD ENCLOSURE | XC* | XL | XP | WT/DT ENCLOSURE | XC* | XL | XP |
| B140T | 3 | 56,000 SERIES | 2.94 | 4.06 | 6.54 | 56,000 SERIES | 2.94 | 4.06 | 6.54 |
| B140T | 6 | 56,000 SERIES | 2.94 | 4.06 | 6.54 | 56,000 SERIES | 2.94 | 4.06 | 6.54 |
| B140T | 10 | 56,000 SERIES | 2.94 | 4.06 | 6.54 | 56,000 SERIES | 2.94 | 4.06 | 6.54 |
| B140/180T | 15 | 56,000 SERIES | 2.94 | 4.06 | 6.54 | 56,000 SERIES | 2.94 | 4.06 | 6.54 |
| B180T | 25 | 56,000 SERIES | 2.94 | 4.50 | 6.54 | 56,000 SERIES | 2.94 | 4.51 | 6.54 |
| B210T | 25 | 87,000 SERIES | 4.63 | 7.38 | 9.00 | 87,000 SERIES | 4.69 | 7.56 | 9.00 |
| B210T | 35 | 87,000 SERIES | 4.63 | 7.38 | 9.00 | 87,000 SERIES | 4.69 | 7.56 | 9.00 |
| B210T | 50 | 87,000 SERIES | 4.63 | 7.88 | 9.00 | 87,000 SERIES | 4.69 | 8.06 | 9.00 |
| B250T | 50 | 87,000 SERIES | 4.63 | 7.88 | 9.00 | 87,000 SERIES | 4.69 | 8.06 | 9.00 |
| B250T | 75 | 87,000 SERIES | 4.63 | 7.88 | 9.00 | 87,000 SERIES | 4.69 | 8.06 | 9.00 |
| B250T | 105 | 87,000 SERIES | 4.63 | 8.38 | 9.00 | 87,000 SERIES | 4.69 | 8.56 | 9.00 |
| B280T | 75 | 87,100 SERIES | 4.69 | 7.75 | 9.00 | 87,100 SERIES | 4.69 | 7.94 | 9.00 |
| B280T | 105 | 87,100 SERIES | 4.69 | 8.25 | 9.00 | 87,100 SERIES | 4.69 | 8.44 | 9.00 |

*Clearance required to remove brake cover.
All brake dimensions given are with Stearns Brakes.

C-FACE TEFC, INTEGRAL HORSEPOWER-E MODEL BRAKE MOTORS



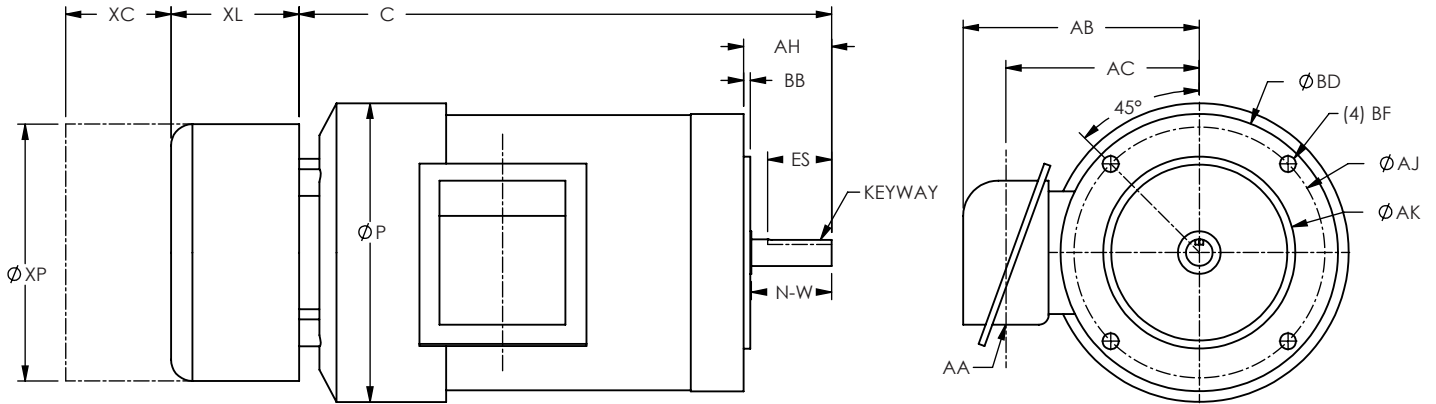
143TC & 145TC ONLY

| FRAME | C | P | R | S | T | U | AA | AB | AG | AH | AJ | AK | BB | BD | BF | ES |
|--------|-------|-------|-------|-------|------|-------|------|-------|-------|------|-------|-------|------|-------|--------|------|
| B143TC | 13.14 | 8.15 | 0.771 | 0.188 | - | 0.875 | 0.86 | 6.10 | 10.13 | 1.96 | 5.875 | 4.50 | 0.16 | 6.50 | 3/8-16 | 1.41 |
| B145TC | 14.13 | 8.15 | 0.771 | 0.188 | - | 0.875 | 0.86 | 6.10 | 11.12 | 1.96 | 5.875 | 4.50 | 0.16 | 6.50 | 3/8-16 | 1.41 |
| B182TC | 15.22 | 9.55 | 0.986 | 0.250 | 1.63 | 1.125 | 0.90 | 6.69 | 11.81 | 2.62 | 7.250 | 8.50 | 0.25 | 9.00 | 1/2-13 | 1.78 |
| B184TC | 16.28 | 9.55 | 0.986 | 0.250 | 1.63 | 1.125 | 0.90 | 6.69 | 12.80 | 2.62 | 7.250 | 8.50 | 0.25 | 9.00 | 1/2-13 | 1.78 |
| B213TC | 18.80 | 11.20 | 1.201 | 0.312 | 1.65 | 1.375 | 1.38 | 8.39 | 14.82 | 3.12 | 7.250 | 8.50 | 0.25 | 9.00 | 1/2-13 | 2.41 |
| B215TC | 20.30 | 11.20 | 1.201 | 0.312 | 1.65 | 1.375 | 1.38 | 8.39 | 16.31 | 3.12 | 7.250 | 8.50 | 0.25 | 9.00 | 1/2-13 | 2.41 |
| B254TC | 25.00 | 12.80 | 1.416 | 0.375 | 2.00 | 1.625 | 2.05 | 10.83 | 19.65 | 3.75 | 7.250 | 8.50 | 0.25 | 10.00 | 1/2-13 | 2.91 |
| B256TC | 26.70 | 12.80 | 1.416 | 0.375 | 2.00 | 1.625 | 2.05 | 10.83 | 21.35 | 3.75 | 7.250 | 8.50 | 0.25 | 10.00 | 1/2-13 | 2.91 |
| B284TC | 28.90 | 15.75 | 1.591 | 0.500 | 2.36 | 1.875 | 2.48 | 13.40 | 22.52 | 4.38 | 9.000 | 10.50 | 0.25 | 11.25 | 1/2-13 | 3.28 |
| B286TC | 30.40 | 15.75 | 1.591 | 0.500 | 2.36 | 1.875 | 2.48 | 13.40 | 24.02 | 4.38 | 9.000 | 10.50 | 0.25 | 11.25 | 1/2-13 | 3.28 |

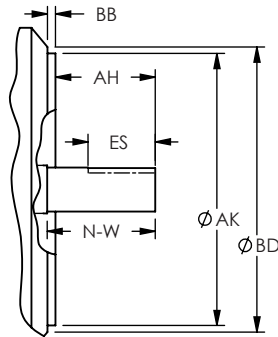
| BRAKE INFO | | | | | | | | | | |
|------------|--------|--------------------|------|------|------|-----------------|------|------|------|--|
| FRAME | FT. LB | STANDARD ENCLOSURE | XC* | XL | XP | WT/DT ENCLOSURE | XC* | XL | XP | |
| B140TC | 3 | 56,000 SERIES | 2.94 | 4.06 | 6.54 | 56,000 SERIES | 2.94 | 4.06 | 6.54 | |
| B140TC | 6 | 56,000 SERIES | 2.94 | 4.06 | 6.54 | 56,000 SERIES | 2.94 | 4.06 | 6.54 | |
| B140TC | 10 | 56,000 SERIES | 2.94 | 4.06 | 6.54 | 56,000 SERIES | 2.94 | 4.06 | 6.54 | |
| B140/180TC | 15 | 56,000 SERIES | 2.94 | 4.06 | 6.54 | 56,000 SERIES | 2.94 | 4.06 | 6.54 | |
| B180TC | 25 | 56,000 SERIES | 2.94 | 4.50 | 6.54 | 56,000 SERIES | 2.94 | 4.51 | 6.54 | |
| B210TC | 25 | 87,000 SERIES | 4.63 | 7.38 | 9.00 | 87,000 SERIES | 4.69 | 7.56 | 9.00 | |
| B210TC | 35 | 87,000 SERIES | 4.63 | 7.38 | 9.00 | 87,000 SERIES | 4.69 | 7.56 | 9.00 | |
| B210TC | 50 | 87,000 SERIES | 4.63 | 7.88 | 9.00 | 87,000 SERIES | 4.69 | 8.06 | 9.00 | |
| B250TC | 50 | 87,000 SERIES | 4.63 | 7.88 | 9.00 | 87,000 SERIES | 4.69 | 8.06 | 9.00 | |
| B250TC | 75 | 87,000 SERIES | 4.63 | 7.88 | 9.00 | 87,000 SERIES | 4.69 | 8.06 | 9.00 | |
| B250TC | 105 | 87,000 SERIES | 4.63 | 8.38 | 9.00 | 87,000 SERIES | 4.69 | 8.56 | 9.00 | |
| B280TC | 75 | 87,100 SERIES | 4.69 | 7.75 | 9.00 | 87,100 SERIES | 4.69 | 7.94 | 9.00 | |
| B280TC | 105 | 87,100 SERIES | 4.69 | 8.25 | 9.00 | 87,100 SERIES | 4.69 | 8.44 | 9.00 | |

* Clearance required to remove brake cover.
all brake dimensions given are with Stearns Brakes.

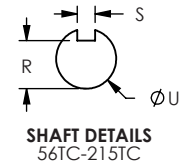
C-FACE TEFC ROLLED STEEL BRAKE MOTORS 56TC-215TC



56TC-140TC



182TC-215TC



| HP | FRAME | C | P | R | S | U | AA | AB | AC | AH | AJ | AK | BB | BD | BF | ES | N-W |
|-----|-------|-------|-------|-------|------|-------|------|------|------|------|------|------|-----|------|--------|------|------|
| 1.0 | 143TC | 10.50 | 7.18 | 0.771 | .188 | .875 | .87 | 5.55 | 4.29 | 2.12 | 5.88 | 4.50 | .16 | 6.50 | 3/8-16 | 1.41 | 2.25 |
| 1.5 | 145TC | 10.88 | 7.18 | 0.771 | .188 | .875 | .87 | 5.55 | 4.29 | 2.12 | 5.88 | 4.50 | .16 | 6.50 | 3/8-16 | 1.41 | 2.25 |
| 2.0 | 145TC | 11.47 | 7.18 | 0.771 | .188 | .875 | .87 | 5.55 | 4.29 | 2.12 | 5.88 | 4.50 | .16 | 6.50 | 3/8-16 | 1.41 | 2.25 |
| 3.0 | 182TC | 17.05 | 8.82 | 0.986 | .250 | 1.125 | 1.10 | 6.50 | 5.17 | 2.62 | 7.25 | 8.50 | .25 | 8.86 | 1/2-13 | 1.78 | 2.75 |
| 5.0 | 184TC | 17.05 | 8.82 | 0.986 | .250 | 1.125 | 1.10 | 6.50 | 5.17 | 2.62 | 7.25 | 8.50 | .25 | 8.86 | 1/2-13 | 1.78 | 2.75 |
| 7.5 | 213TC | 20.99 | 11.18 | 1.201 | .312 | 1.375 | 1.10 | 7.68 | 6.38 | 3.12 | 7.25 | 8.50 | .25 | 9.00 | 1/2-13 | 2.41 | 3.38 |
| 10 | 215TC | 20.99 | 11.18 | 1.201 | .312 | 1.375 | 1.10 | 7.68 | 6.38 | 3.12 | 7.25 | 8.50 | .25 | 9.00 | 1/2-13 | 2.41 | 3.38 |

| BRAKE INFO | | | | | | | | | |
|------------|---------|--------------------|------|------|------|-----------------|------|------|------|
| FRAME | FT. LB. | STANDARD ENCLOSURE | XC* | XL | XP | WT/DT ENCLOSURE | XC* | XL | XP |
| B140TC | 3 | 56,000 SERIES | 2.94 | 4.06 | 6.54 | 56,000 SERIES | 2.94 | 4.06 | 6.54 |
| B140TC | 6 | 56,000 SERIES | 2.94 | 4.06 | 6.54 | 56,000 SERIES | 2.94 | 4.06 | 6.54 |
| B140TC | 10 | 56,000 SERIES | 2.94 | 4.06 | 6.54 | 56,000 SERIES | 2.94 | 4.06 | 6.54 |
| B140/180TC | 15 | 56,000 SERIES | 2.94 | 4.06 | 6.54 | 56,000 SERIES | 2.94 | 4.06 | 6.54 |
| B180TC | 25 | 56,000 SERIES | 2.94 | 4.50 | 6.54 | 56,000 SERIES | 2.94 | 4.51 | 6.54 |
| B210TC | 25 | 87,000 SERIES | 4.63 | 7.38 | 9.00 | 87,000 SERIES | 4.69 | 7.56 | 9.00 |
| B210TC | 35 | 87,000 SERIES | 4.63 | 7.38 | 9.00 | 87,000 SERIES | 4.69 | 7.56 | 9.00 |
| B210TC | 50 | 87,000 SERIES | 4.63 | 7.88 | 9.00 | 87,000 SERIES | 4.69 | 8.06 | 9.00 |

*Clearance required to remove brake cover.
All brake dimensions given are with Stearns Brakes.

MODEL NUMBER CODE

EXAMPLE:

BASIC

SUFFIX

E B 015 4 F E A | 01 or 050* S

| Series | Type | HP @ Max. RPM† | Poles | Enclosure/ Type | Features | HZ/ Volts | Special Modifications | Brake Ft-Lbs | Brake Vendor |
|--|---|---|--|--|---|---|--|---------------------------------------|--|
| D- D-Series Frame 140T and larger Rolled Steel | A- 60 Min. C&H Duty B- NEMA Design B C- NEMA Design C D- NEMA Design D | Y03 -1/3 Y05 - 1/2 Y07 - 3/4 Y08 - 7/8 Y15 - 1-1/2 Y75 - 7-1/2 | 2 - 2 4 - 4 6 - 6 8 - 8 E - 10 | B- TEBC Blower Cooled C- TEFC Steril-Core D- Drip Proof F- TEFC G- TEFC Farm Duty H- TEFC Threaded Shaft/ No Therm. Protection I- TEFC Threaded Shaft with Auto Reset J- TEFC/ Auto Reset K- TEFC Man. Reset L- TEFC Mill & Chem Duty M- TENV Steril-Seal Washdown N- TENV P- TEFC Steril-Seal Washdown R- TENV Premium Stainless Steel / IP66 S- TEFC Premium Stainless Steel / IP66 T- TENV/ Auto Reset Y- Explosion Proof | A- C- Face Footed 2-P Long Shaft B- C- Face Footed C- C- Face Footless D- D- Flange Footless E- D- Flange Footed F- Foot Mount G- C- Face Footless with Locked Bearing H- C- Face Footed with Locked Bearing J- C.C. Pump (JM) K- C.C. Pump (JP) L- Std. NEMA D.E. Shaft & C- Face Both Ends, Footless M- Std. NEMA D.E. Shaft/ C-Face N- Opposite Drive End. Footless O- Std. NEMA D.E. Shaft, Footed P- Std. NEMA D.E. Shaft, Footless Q- Std. NEMA D.E. Shaft Tapered R- Opposite Drive End. Footed S- Opposite Drive End. Footless T- Brake Motor Footed V- C- Face Footed NEMA "TS" Short Shaft 1800-RPM And Slower W- Oil Well Pump Motor Footed X- Special Features Not Covered Elsewhere Y- Brake Motor Footed / C- Face Z- Same As "Y" Above, Except Without C-Face | A- 60/208-230/460 B- 60/460 C- 60/230 D- 60/240/480 E- 60/220/440 F- 60/200 G- 60/208 H- 60/230/460 I- 60/190/380 K- 50/190 L- 50/208/416 M- 50/220 N- 50/380 O- 50/400 P- 50/200/400 R- 50/220/440 S- 50/Other T- 50/Other U- 50/60/190/380/230/460 V- 60/230/460/796 W- 60/115/208-230 X- 1-Phase Z- 60/208-230 Special | 01- Numbers assigned per customer specifications | Y15=1.5 001=1 010=10 100=100 | S=Stearns D=Dings L=Lenze R=Reuland W=Warner |

* In case of vector motors, the PPR rating of the encoder follows the model number instead of the foot-pound rating of the brake.

‡ Check number of poles and horsepower rating to determine whether unit is Constant Horsepower or Variable Torque.

† HP at nominal 60Hz for variable frequency inverter/vector duty motors.

CONDITIONS OF SALE

Acceptance of your order is subject to the following terms and conditions as well as the condition of sale stated in the Price Book, which may not be superseded or modified in any manner by the terms of your purchase order unless specifically agreed to in writing by Sterling Electric, Inc. ("the Company");

1. **WARRANTY** – The Company warrants that all of its own manufactured products will be of the kind and quality described in the specifications established at time of purchase, and no other warranty, except of title, is herein expressed and none shall be implied. The conditions of any test of the products shall be mutually agreed upon, and the Company shall be notified of and may be represented at all tests that may be made. If any failure to comply with the specifications appears within one year from the date of shipment the Purchaser shall notify the Company thereof immediately. Failure to notify the Company within such period shall relieve said Company from any and all obligations. The liability of the Company (except as to title) arising out of the supplying of said products or their use, whether on warranties or otherwise, shall not in any case exceed the least of the cost or correcting defects in the products, by repair or by supplying a replacement, f.o.b. factory, of the defective part or parts. Upon expiration of (1) year from the date of shipment all such liability shall terminate.

THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, WITH RESPECT TO THE PRODUCT. INCLUDING ANY IMPLIED OR STATUTORY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. NEITHER COMPANY NOR ITS SUPPLIERS SHALL BE LIABLE, WHETHER IN CONTRACT OR IN TORT OR UNDER ANY OTHER LEGAL THEORY, FOR LOSS OF USE, REVENUE OR PROFIT, OR FOR COST OF CAPITOL OR OF SUBSTITUTED USE OR PERFORMANCE, OR FOR INCIDENTAL, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES, OR FOR ANY OTHER LOSS OR COST OF SIMILAR TYPE, OR FOR CLAIMS BY PURCHASER FOR DAMAGES OR PURCHASER'S CUSTOMERS.

The Company is not responsible for damage to products or injury to persons or property due to abuse, improper installation or storage, alteration or modification, use other than for which originally sold, or through operations above rated load, either intentionally or otherwise, of any product or part. Further the Company shall not under any circumstances, be liable for the fault, negligence, or wrongful acts of purchaser of Purchaser's employees, or Purchaser's other contractors or suppliers. If any Purchaser fails to comply with the stipulated conditions of operation, or fails to permit the Company to inspect defects before repairing, or alters the product in any way, or fails to maintain the equipment in as-is shipped condition in storage, the Company's responsibility shall terminate.

2. **CHANGE OF PRICES/ORDERS** – A minimum charge of \$50.00 shall be charged on any order. Any order changes requested by Purchaser after order has been entered shall incur a minimum charge of \$50.00. In addition, charges will be made to cover the cost of re-engineering, drafting, parts scrapped because of the change and Price Book modifications caused by the change.

In the event of a price change, prices on the unshipped portions of all orders are subject to the price in effect at the time of shipment. Exceptions to these terms are stated in the Price Book Conditions of Sale.

3. **SHIPPING AND STORAGE** – Products shall be shipped f.o.b. point of shipment, no freight allowed. Shipping methods or carriers are at the discretion of the Company. Date of shipment shall be the date shown on bill of lading for receipt of shipment by initial carrier. The Company is not responsible for any damage incurred during delivery by common carrier. Purchaser shall file claim against the carrier. All storage claims must be filled within (10) days of the receipt of shipment.

Special storage preparation is recommended for products that will not be put in service within ninety days of shipment. Charges for this service are specified in catalog 705 and the Conditions of Sale. Failure to request such storage preparation will void the warranty on products stored over ninety days.

4. **TERMS OF PAYMENT** – Unless otherwise arranged, terms of payment are cash in full within thirty days of invoice date. Payment will be in U.S. Dollars. On late payments, in the contract price shall, without prejudice to the Company's right to immediate payment, be increased 1% per month on the unpaid balance, but not to exceed the maximum permitted by law.

If at anytime in the Company's judgment the Purchaser may be or may become unable or unwilling to meet the terms specified, the Company may require satisfactory assurances, full or partial payment, as a condition to commencing or continuing manufacture of making shipment, and may, if shipment has been made, recover the product(s) from the carrier, pending receipt of such assurances.

5. **CANCELLATION** – Cancellation of this order may be made by written notice to Company provided that payment of cost incurred by the Company, to the time such notice is received, is made by Purchaser.

6. **PATENTS** – The Company shall defend any suit or proceeding brought against the Purchaser so far as based on a claim that any product, or any part thereof, furnished under this contract constitutes an infringement of any patent of the United States. If notified promptly in writing and given authority, information and assistance (at the Company's expense) for the defense of same, and the Company shall pay all damages and cost awarded therein against the Purchaser. In case said product, or any part thereof, is in such suit held to constitute infringement and the use of said product or part is enjoined, the Company shall, at its own expense, either procure for the Purchaser the right to continue using said product or part; or replace same with non-infringing product; or modify it so that it becomes non-infringing; or remove said product and refund the purchase price and the transportation and installation costs thereof. The forgoing states the entire liability of the company for patent infringement by said product or any part thereof.

7. **DELIVERY/DELAY** – Shipping dates are estimates and are based upon prompt receipt of all necessary information. The Company shall not be liable for delay due to causes beyond its reasonable control, including but not limited to acts of God, acts of failure to act of government, acts or regulations of the federal or state governments, acts or omissions of the Purchaser, acts of civil or military authorities, priorities, fires, strikes, blizzards, earthquakes, tornadoes, floods, epidemics, quarantine restrictions, war, riots, delays in transportation, car, shortages, and inability, due to reasons beyond its reasonable control, to obtain necessary labor, material, or manufacturing facilities. In the event of any such delay, the date of the delivery shall be extended for a period equal to the time lost by reason of the delay and its consequences. Delay caused by Purchaser's request or amendment or addition to order shall cause the Company to apply those prices and price policy clauses in effect as of the date said order is finally released.

8. **TAXES** – The Company's prices do not include sales, use, excise, license or similar taxes. Consequently, in addition to the price specified herein, the amount of any present or future sales, use, excise, license or other similar tax applicable to the sale of the equipment, parts or accessories hereunder shall be paid by the Purchaser, or in lieu thereof the Purchaser shall provide the Company with a tax exemption certificate acceptable to the taxing authorities.

9. **TITLE** – The title and right of possession of the equipment, parts or accessories sold hereunder shall remain with the Company and such equipment shall remain personal property until all payments hereunder (including deferred payments, whether evidenced by notes or otherwise) shall have been made in full in cash and the Purchaser agrees to do all acts necessary to protect and maintain such right and title in the Company.

10. **WAIVER/INDEMNITY** – No waiver or modification of any of these terms and conditions of sale shall be valid unless it is made in writing and signed by both Company and Purchaser. Failure by the Company to enforce any right possessed under the foregoing terms and conditions shall not constitute a waiver thereof or establish a custom. Purchaser shall protect, defend, indemnify and hold harmless the Company for all loss, cost or expense arising out of any breach of these Conditions of Sale or negligent act of the Purchaser.

11. **LAWS/LIMITATIONS** – The Company will comply with all applicable Federal, State and local laws, and hereby represents that any goods to be delivered hereunder will be produced in compliance with the requirements of the Fair Labor Standards Act of 1938, as amended. The laws of the State of California shall govern the validity, interpretation and enforcement of this contract. No action, regardless of form, arising out of the sale of use of the products which are the subject of this contract may be brought by either party more than one year after the cause of action has accrued, except on action for nonpayment of the purchase price brought within one year after the last payment due date.

