

# Powerwash SXT Washdown Duty, 3-Phase, All Stainless Steel, Totally Enclosed Motors

C-Face Footless



## Features

- Suitable for use on VFD 10:1 Variable torque, 10:1 (TEFC) or 1000:1 (TENV) Constant Torque
- MAX GUARD® Class F insulation system
- 1.15 Service Factor on sinewave, 1.0 Service Factor on IGBT power
- Double-sealed ball bearings
- 303 stainless steel shaft with spring-loaded contact seals in each end (drive end only on TENV)
- 300 Series Stainless steel external construction: frame, endshields, conduit box, mounting base and hardware for superior corrosion resistance
- Internal corrosion resistant coatings on rotor and heavy polyester varnish on the stator
- 100% paint-free construction
- One-way condensation drains in each endshield and conduit box for all angle mounting
- Nitrile Buna-N gaskets and seals on conduit box, through bolts and endshields
- Rated 60/50 Hz, 190/380 volt at next lower horsepower
- Nameplate information laser etched on frame
- UL Recognized, CSA Certified and CE Mark
- IP55 Rating

## Applications

- Replaces 90 volt and 180 volt PMDC motors (when used with AC variable frequency drives)
- Typical uses include: machine tools, conveyors, packaging machines, batching machines, food and beverage equipment, pumps and fans.

### Motor Shipping Schedule \*

Same or one day \*    Up to 7 days    Up to 10 days

Color indicates shipping lead time in business days. Check stock status online.

\* Certain heavy and oversized items can be shipped only via LTL. Check our website for current shipping method constraints by part number.

### Motor Specifications – Powerwash SXT Washdown Duty 3-Phase All Stainless Steel Totally Enclosed Motors

| Part Number* | Price    | HP    | Base RPM | Volts                 | Encl. | NEMA Design | NEMA Frame            | Model No.      | F.L. Amps               | Weight (lb)*          | Footnotes |
|--------------|----------|-------|----------|-----------------------|-------|-------------|-----------------------|----------------|-------------------------|-----------------------|-----------|
| <b>N430</b>  | \$320.00 | 1/3   | 1800     | 208-230/460 - 190/380 | TENV  | B           | 56C                   | 56T17VD5329 AA | 1.2-1.3/0.65 - 1.2/0.60 | 21.2                  | N         |
| <b>N431</b>  | \$330.00 | 1/2   |          |                       |       |             |                       | 56T17VD5330 A  | 1.5-1.6/0.80 - 1.6/0.80 | 23                    | N         |
| <b>N432</b>  | \$363.00 | 3/4   |          |                       |       |             |                       | 56T17VD5331 A  | 2.4-2.3/1.15 - 2.0/1.0  | 30.2                  | N         |
| <b>N433A</b> | \$407.00 | 1     |          |                       |       |             |                       | 56T17WD15330 A | 3.4-3.0/1.5 - 3.0/1.5   | 43.5                  |           |
| <b>N434B</b> | \$469.00 | 1     |          | 230/460 - 190/380     | TEFC  |             | 143TC                 | 143TTWD6527 FR | 3.4-3.0/1.5 - 3.0/1.5   | 44                    |           |
| <b>N436A</b> | \$443.00 | 1-1/2 |          |                       |       |             | 145TC                 | 145TTWD6031 A  | 4.8-4.4/2.2 - 3.8/1.9   | 47                    |           |
| <b>N437A</b> | \$498.00 | 2     |          |                       |       |             | 56C                   | 56T17WD15332 A | 5.4/2.7 - 5.0/2.5       | 52                    |           |
| <b>N438B</b> | \$535.00 | 2     |          |                       |       |             | 208-230/460 - 190/380 | 145TC          | 145TTWD6528 A           | 5.8-5.4/2.7 - 5.0/2.5 | 52.6      |

\* Refer to the Motor Shipping Schedule table for shipping information.

Certain heavy and oversized items can be shipped only via LTL. Check our website for current shipping method constraints by part number.

Footnotes: N = Totally Enclosed, Non-Ventilated

Note: Please review the AutomationDirect Terms & Conditions for warranty and service on this product. Warranty service can be arranged through numerous Marathon Electric service centers. See list of service centers on our website at [www.automationdirect.com](http://www.automationdirect.com).

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## Performance Data

| Performance Data – Powerwash SXT Washdown Duty 3-Phase All Stainless Steel Totally Enclosed Motors |       |          |          |                 |                 |                     |                     |               |               |             |                   |                                     |   |
|--|-------|----------|----------|-----------------|-----------------|---------------------|---------------------|---------------|---------------|-------------|-------------------|-------------------------------------|---|
| Part Number  | HP    | F.L. RPM | Min. RPM | F.L. AMPS @460V | N.L. AMPS @460V | F.L. Torque (lb-ft) | B.D. Torque (lb-ft) | Max. CHP RPM* | Max. Safe RPM | F.L. Effic. | F.L. Power Factor | Rotor Inertia (lb-ft <sup>2</sup> ) | Footnotes   |
| <b>N430</b>  | 1/3   | 1740     | N/A      | 0.65            | 0.5             | 16                  | 72                  | N/A           | N/A           | 78.5        | 63                | N/A**                               | Line Start ONLY Recommended!  |
| <b>N431</b>  | 1/2   |          | 1.74     | 0.8             | 0.6             | 24                  | 89                  | 2700          | 7000          | 81.5        | 68                | N/A**                               | 1000:1 Constant Torque<br>Nameplate footnote: Suitable at 208V at 1.0 S.F.                                  |
| <b>N432</b>  | 3/4   |          | N/A      | 1.15            | 0.7             | 36                  | 163                 | N/A           | N/A           | 82.5        | 73                | N/A**                               | Line Start ONLY Recommended!  |
| <b>N433A</b>   | 1     | 1750     | 175      | 1.5             | 1.0             | 2.99                | 15.83               | 2700          | 4000          | 85.5        | 71.5              | N/A**                               | 10:1 Variable Torque<br>Nameplate footnote: NEMA Nom. Efficiency, suitable for use at 230/460V only         |
| <b>N434B</b>   | 1     |          | N/A      | 1.5             | 2               | 2.99                | 15.83               | N/A           | N/A           | 85.5        | 71.5              | N/A**                               | Line Start ONLY Recommended!<br>Nameplate footnote: NEMA Nom. Efficiency, suitable for use at 230/460V only |
| <b>N436A</b>   | 1-1/2 |          | 175      | 2.2             | 1.3             | 4.513               | 21.05               | 2700          | 4000          | 86.5        | 73.5              | N/A**                               | 10:1 Variable Torque  |
| <b>N437A</b>   | 2     | 3450     | 175      | 2.7             | 1.4             | 5.981               | 25.44               | 5400          | 4000          | 86.5        | 80                | N/A**                               | 10:1 Variable Torque<br>Nameplate footnote: Suitable at 208V at 1.0 S.F.                                    |
| <b>N438B</b>   | 2     | 1750     | N/A      | 2.7             | 1.4             | 5.981               | 25.44               | N/A           | N/A           | 86.5        | 80                | N/A**                               | Line Start ONLY Recommended!<br>Nameplate footnote: NEMA Nom. Efficiency, suitable for use at 230/460V only |

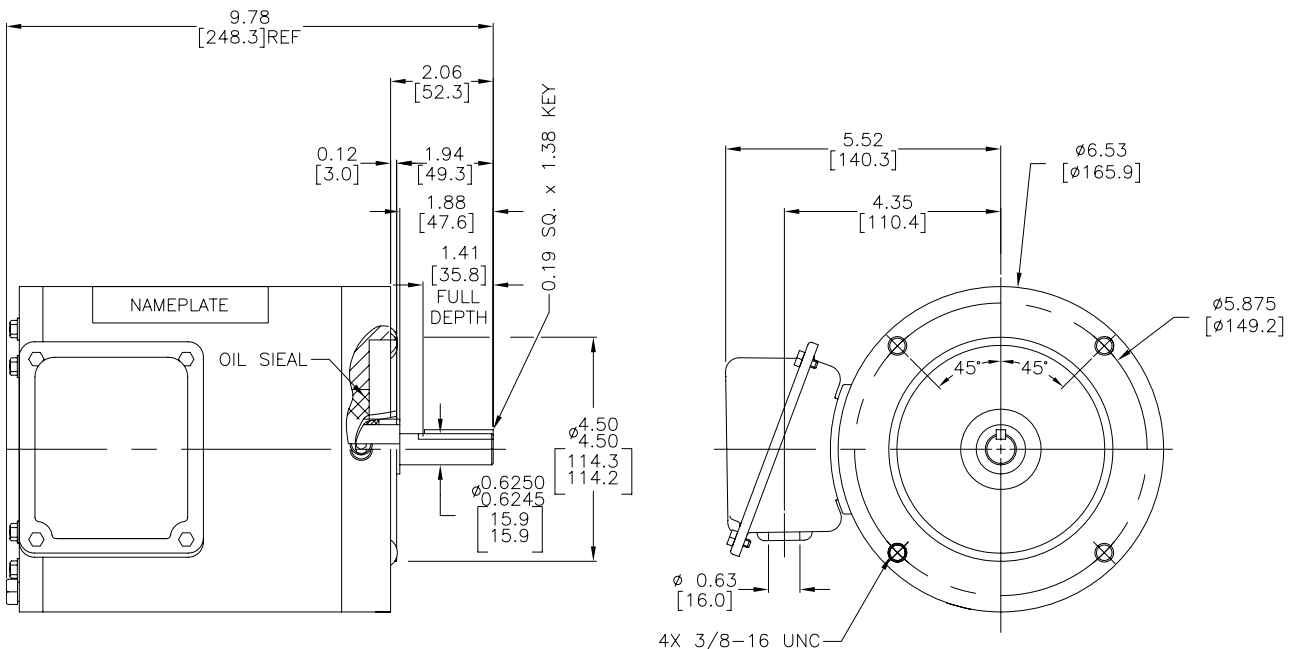
Notes: \*Maximum Constant HP RPM is for direct-coupled loads.  
\*\*Data not available from manufacturer.

## Dimensions

in [mm]

See our website: [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete engineering drawings.

Figure 1 – N430-N432 Dimensions



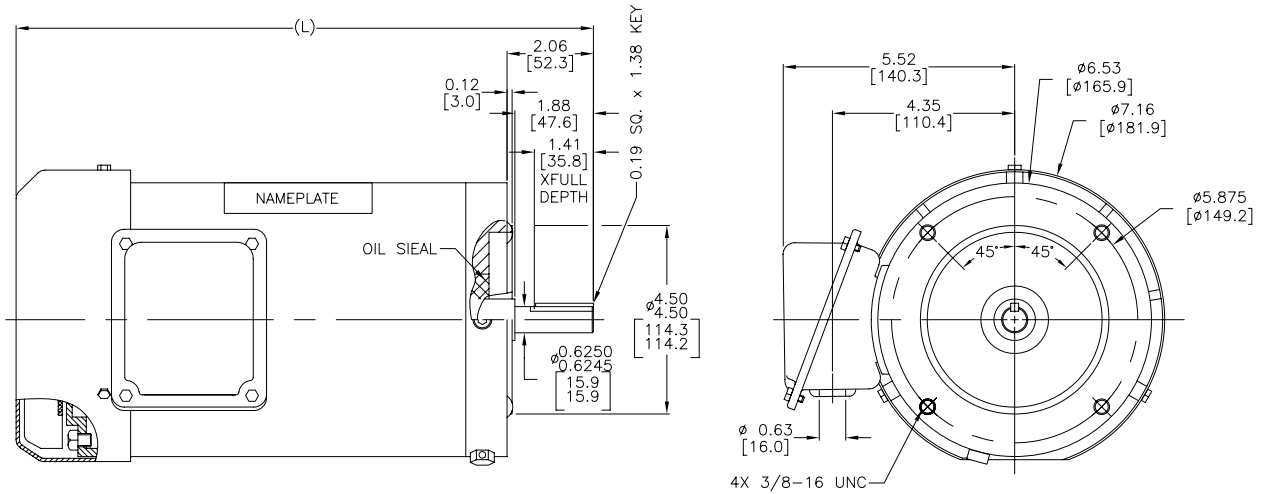
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## Dimensions

## C-Face Footless

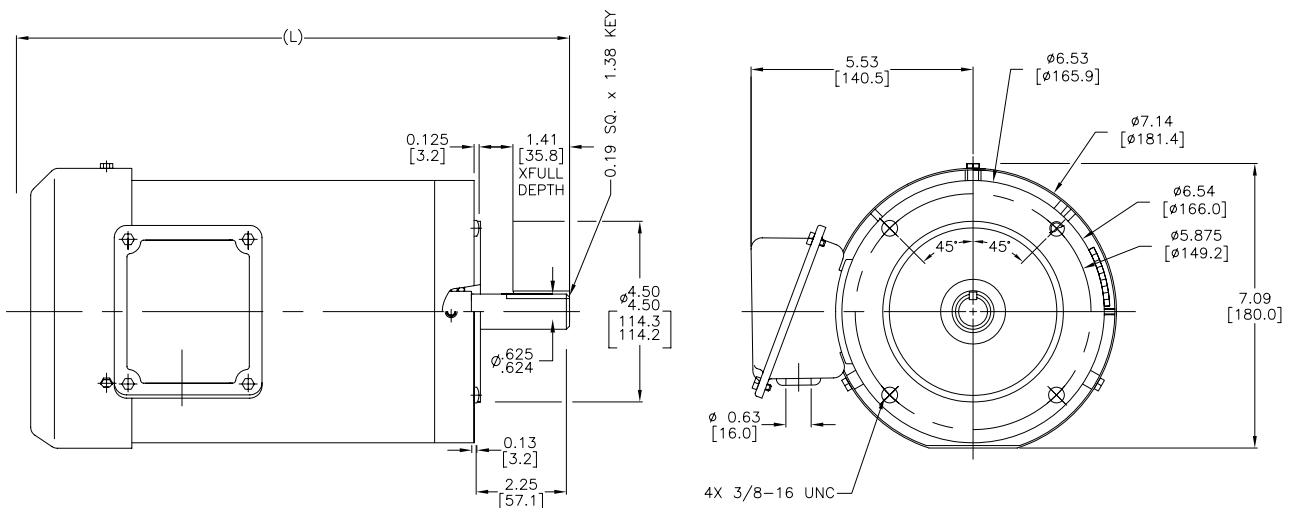
in [mm]

**Figure 2 – N433A, N437A Dimensions**



| Motor Dimensions (inches) |            |
|---------------------------|------------|
| Part Number               | Length (L) |
| N433A                     | 132        |
| N437A                     | 140        |

**Figure 3 – N434B, N436A, N438B Dimensions**



| Motor Dimensions (inches) |            |
|---------------------------|------------|
| Part Number               | Length (L) |
| N434B                     | 13.7       |
| N436A                     | 13.7       |
| N438B                     | 14.1       |