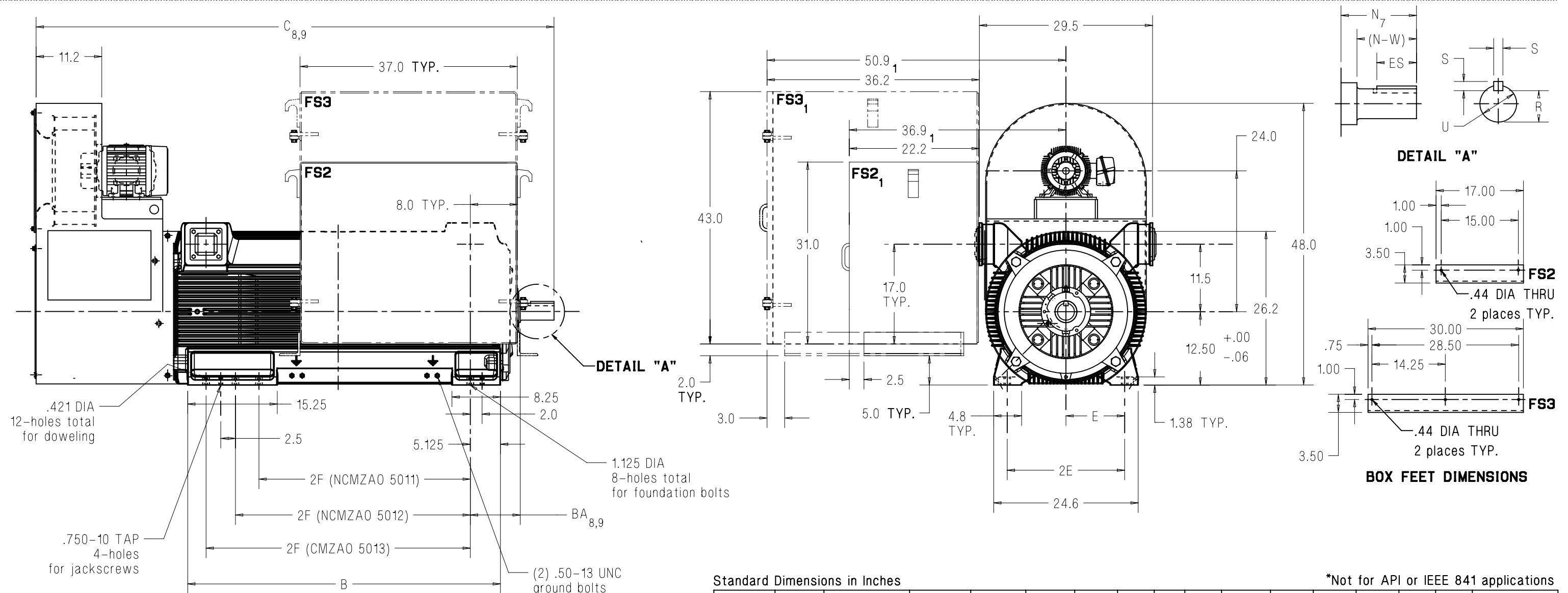


**Type CMZAO / NCMZAO – Custom Horizontal – TEAO with Auxilliary Blower  
Anti-Friction Bearing – Direct Connected  
Frames 5011 / 5012 / 5013 – Free Standing Main Conduit Box**



Notes:

1. Main conduit box is free standing and must be supported from below by customer.  
A removable bottom plate is supplied on the FS2 and FS3 conduit boxes.
2. C = Length of motor from drive end of shaft to end of non-drive end of motor.
3. V = (N-W)-0.25" = length of shaft available for coupling.
4. Machines may rotate in either direction.
5. Shims may be necessary under motor feet for direct connection.
6. Short shaft is for direct connection. Long shaft may be either belt drive or direct connection depending upon the bearing installed in the motor.
7. Adding a rotating labyrinth seal to the drive end decreases N by:  
4 Pole & Slower: 0.30" Long Shaft 4 Pole & Slower: 0.30"
8. Adding a ground brush increases BA & C by:  
4 Pole & Slower: 2.50" Long Shaft 4 Pole & Slower: 2.50"
9. Adding a ground brush with rotating labyrinth seal increases BA & C by:  
4 Pole & Slower: 2.75" Long Shaft 4 Pole & Slower: 2.75"

### Standard Dimensions in Inches

| Type   | Shaft | Frame | Speed    | B     | BA <sub>8,9</sub> | C <sub>8,9</sub> | E     | 2F   | N <sub>7</sub> | (N-W) | R     | S     | U     | V <sub>3</sub> | ES  | Approx. Ship Wt. (Lbs) |
|--------|-------|-------|----------|-------|-------------------|------------------|-------|------|----------------|-------|-------|-------|-------|----------------|-----|------------------------|
| NCMZAO | Short | 5011S | 2 Pole*  | 53.25 | 8.50              | 87.7             | 10.00 | 36.0 | 5.50           | 5.25  | 2.275 | 0.625 | 2.625 | 5.00           | 3.5 | 6375                   |
| NCMZAO | Short | 5011S | 4 Pole + | 53.25 | 8.50              | 88.2             | 10.00 | 36.0 | 6.00           | 5.75  | 2.450 | 0.750 | 2.875 | 5.50           | 4.0 | 6575                   |
| NCMZAO | Short | 5012S | 2 Pole*  | 53.25 | 8.50              | 87.7             | 10.00 | 40.0 | 5.50           | 5.25  | 2.275 | 0.625 | 2.625 | 5.00           | 3.5 | 6375                   |
| NCMZAO | Short | 5012S | 4 Pole + | 53.25 | 8.50              | 88.2             | 10.00 | 40.0 | 6.00           | 5.75  | 2.450 | 0.750 | 2.875 | 5.50           | 4.0 | 6575                   |
| CMZAO  | Short | 5013S | 2 Pole*  | 53.25 | 8.50              | 87.7             | 10.00 | 45.0 | 5.50           | 5.25  | 2.275 | 0.625 | 2.625 | 5.00           | 3.5 | 6375                   |
| CMZAO  | Short | 5013S | 4 Pole + | 53.25 | 8.50              | 88.2             | 10.00 | 45.0 | 6.00           | 5.75  | 2.450 | 0.750 | 2.875 | 5.50           | 4.0 | 6575                   |
| NCMZAO | Long  | 5011  | 4 Pole + | 53.25 | 8.50              | 92.0             | 10.00 | 36.0 | 9.75           | 9.50  | 3.436 | 1.000 | 4.000 | 9.25           | 8.0 | 6575                   |
| NCMZAO | Long  | 5012  | 4 Pole + | 53.25 | 8.50              | 92.0             | 10.00 | 40.0 | 9.75           | 9.50  | 3.436 | 1.000 | 4.000 | 9.25           | 8.0 | 6575                   |
| CMZAO  | Long  | 5013  | 4 Pole + | 53.25 | 8.50              | 92.0             | 10.00 | 45.0 | 9.75           | 9.50  | 3.436 | 1.000 | 4.000 | 9.25           | 8.0 | 6575                   |

\*Not for API or IEEE 841 applications

**Certification:** Customer \_\_\_\_\_ P.O. \_\_\_\_\_ S.O. \_\_\_\_\_ Item \_\_\_\_\_  
 HP \_\_\_\_\_ RPM \_\_\_\_\_ Frame \_\_\_\_\_ PH/HZ/Volts 3/\_\_\_\_\_/\_\_\_\_\_  
 Terminal Box Size FS2 ☐ FS3 ☐  
 By \_\_\_\_\_ Date \_\_\_\_\_  
 Comments \_\_\_\_\_  
 Not for construction, installation or application purposes unless certified.

CMZAO/NCMZAO\_5011-12-13\_2plusPL\_AF\_FS  
A5E34620274A REV AE  
03/24/17