



**Electrical Helper.org**  
For All Your Electric Needs Since 1928  
411 N Platte Ave. York, NE. 68467

AC-DC MOTORS :: SALES & SERVICE  
REWINDING :: CUSTOM CONTROL PANEL

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**WorldWide**  
ELECTRIC CORPORATION



# DATA SHEET

Premium Efficiency Motor: **FD7.5-18-215TZ,**

**60 Hz**

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Customer:

## MOTOR INFORMATION

|                         |                             |
|-------------------------|-----------------------------|
| HP                      | 7.5                         |
| RPM                     | 1800                        |
| Phase                   | 1                           |
| Frequency               | 60 Hz                       |
| Voltage                 | 230                         |
| Frame Size              | 215TZ                       |
| Enclosure               | TEFC                        |
| Degree of Protection    | IP55                        |
| Service Factor          | 1.15                        |
| Poles                   | 4                           |
| Full Load Speed         | 1767                        |
| Insulation Class        | F                           |
| Temp Rise               | 80°C                        |
| NEMA Code Letter        | J                           |
| Duty Cycle              | S1 / Continuous             |
| Slip                    | 1.86%                       |
| Max Ambient Temperature | 40°C                        |
| Max Elevation           | 1000 m.a.s.l (3300 f.a.s.l) |
| Mounting                | F1                          |
| Rotation                | Bi-Directional              |
| Mounting Type           | Rigid Base                  |
| Standard                | NEMA MG-1                   |
| Approvals               | UL, CE                      |

## EFFICIENCY/POWER FACTOR

| LOAD   | EFF    | P. F. |
|--------|--------|-------|
| 100%   | 86.7 % | 96.1  |
| 75%    | 85.4 % | 95.0  |
| 50%    | 0      |       |
| 80.2 % |        | 90.6  |

## TORQUE

| FULL LOAD    | LRT   | BDT   |
|--------------|-------|-------|
| 21.94 lb.ft. | 378 % | 231 % |

## AMPERAGE INFORMATION

|                   |        |
|-------------------|--------|
|                   | 230V   |
| Full Load Amps    | 28.71A |
| Locked Rotor Amps | 238.5A |
| No Load Current   | 8.19A  |
| Usable at 208V    | 31.75A |

## BEARING INFORMATION

|             |           |
|-------------|-----------|
| DE Bearing  | 6308ZZ C3 |
| ODE Bearing | 6206ZZ C3 |
| Grease Type | NSK SN7   |

## CAPACITOR INFORMATION

|                 |              |
|-----------------|--------------|
| Start Capacitor | (2)400uF/330 |
| Run Capacitor   | V            |
|                 | (2)45uF/500V |

## ADDITIONAL DATA

|                    |                   |
|--------------------|-------------------|
| F2 Suitable        | No                |
| Shaft Material     | 1045 Carbon Steel |
| Connection Diagram | 230V - 4 Lead     |
| Approximate Weight | 133.5 lbs.        |



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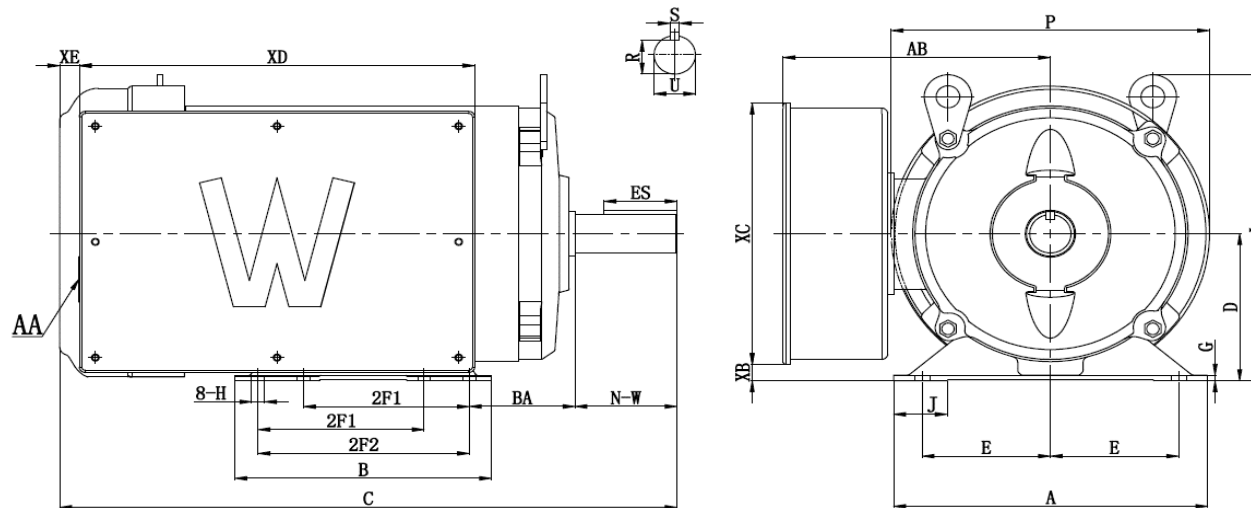
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# MOTOR DRAWING

Premium Efficiency Motor: **FD7.5-18-215TZ**



## DIMENSION - INCHES

| MOUNTING |     |     |      |     | A   | B   | C    | D    | G    | L    | P     | AB  |
|----------|-----|-----|------|-----|-----|-----|------|------|------|------|-------|-----|
| E        | 2F1 | 2F2 | H    | BA  |     |     |      |      |      |      |       |     |
| 4.25     | 5.5 | 7   | 0.41 | 3.5 | 9.7 | 8.2 | 20.5 | 5.25 | 0.16 | 11.2 | 10.55 | 8.5 |

| KETSET | KEY  |      | SHAFT |      | TERMINAL BOX |     |      |    |             | K | J  |     |
|--------|------|------|-------|------|--------------|-----|------|----|-------------|---|----|-----|
|        | R    | ES   | S     | U    | NW           | XB  | XC   | XD | XE          |   |    | AA  |
| 0.986  | 1.78 | 0.25 | 1.125 | 3.38 | 0.5          | 9.6 | 13.4 | 2  | 1-1 1/2 NPT |   | -- | 1.8 |



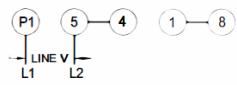
## NAMEPLATE / WIRING

Premium Efficiency Motor: **FD7.5-18-215TZ**

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## SAMPLE NAMEPLATE DATA

|  |      | HIGH EFFICIENCY-HIGH TORQUE<br>SINGLE PHASE FARM DUTY MOTOR |  |  |                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------|------|-------------------------------------------------------------|--|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model :                                                                           |      | SN :                                                        |  | Poles : 4                                                                           | <p><u>RATED VOLTAGE</u></p>  <p>CONNECTED FOR CCW ROTATION<br/>FACING OPPOSITE DRIVE END</p> <p>TO REVERSE ROTATION<br/>INTERCHANGE LEAD 5 &amp; 8</p> <p>MOTOR MUST BE GROUNDED, USE<br/>GREEN LEAD IF SUPPLIED PER THE<br/>NATIONAL ELECTRICAL CODE</p> |
| HP :                                                                              |      | Encl : TEFC                                                 |  | IP 55                                                                               |                                                                                                                                                                                                                                                                                                                                              |
| Hz :                                                                              | 60   | FR :                                                        |  | Eff :                                                                               |                                                                                                                                                                                                                                                                                                                                              |
| Volts :                                                                           | 230  | Ins : F                                                     |  | P.F. :                                                                              |                                                                                                                                                                                                                                                                                                                                              |
| Amps :                                                                            |      | CODE :                                                      |  | DE BRG :                                                                            |                                                                                                                                                                                                                                                                                                                                              |
| RPM :                                                                             |      | WT : LBS                                                    |  | ODE BRG :                                                                           |                                                                                                                                                                                                                                                                                                                                              |
| SF :                                                                              | 1.15 | Max Amb 40°C - CONT                                         |  | Date :                                                                              |                                                                                                                                                                                                                                                                                                                                              |
| WorldWide Electric Corporation                                                    |      |                                                             |  |                                                                                     |                                                                                                                                                                                                                                                                                                                                              |

|                |                |               |            |                 |           |
|----------------|----------------|---------------|------------|-----------------|-----------|
| <b>Model</b>   | FD7.5-18-215TZ |               |            |                 |           |
| <b>HP</b>      | 7.5            | <b>Encl</b>   | TEFC       | <b>IP</b>       | IP55      |
| <b>Hz</b>      | 60 Hz          | <b>Frame</b>  | 215TZ      | <b>Nom.Eff.</b> | 86.7%     |
| <b>Voltage</b> | 230            | <b>Ins Cl</b> | F          | <b>P.F.</b>     | 96.1      |
| <b>Amps</b>    | 28.71A         | <b>Code</b>   | J          | <b>DE Brng</b>  | 6308ZZ C3 |
| <b>RPM</b>     | 1766.5         | <b>WT:</b>    | 133.5 lbs. | <b>ODE Brng</b> | 6206ZZ C3 |
| <b>S.F.</b>    | 1.15           |               |            |                 |           |