



**WORLDWIDE ELECTRIC MOTOR DATA SHEET**

**PEWWE200-18-445/7T**



|   |   |              |             |
|---|---|--------------|-------------|
| HORSEPOWER                              | <b>200</b>  |              |             |
| RPM / POLES                             | <b>1800 / 4</b>                                       |              |             |
| VOLTAGE / PHASE                         | <b>230 / 460 V / 3</b>                                |              |             |
| FRAME                                   | <b>445/7T</b>   |              |             |
| ENCLOSURE / DEGREE OF PROTECTION        | <b>TEFC / IP55</b>                                    |              |             |
| FREQUENCY                               | <b>60 HZ Suitable For 50 HZ Operation With 1.0 SF</b> |              |             |
| FULL LOAD SPEED                         | <b>1790 RPM</b>                                       |              |             |
| SERVICE FACTOR                          | <b>1.25</b>   |              |             |
| INSULATION CLASS                        | <b>F</b>  |              |             |
| FULL LOAD AMPS; 230 / 460               | <b>458 / 229 A (Usable On 208V At 506 A)</b>          |              |             |
| LOCKED ROTOR AMPS (STARTING); 230 / 460 | <b>2900 / 1450 A</b>                                  |              |             |
| NO LOAD CURRENT                         | <b>148 / 74 A</b>                                     |              |             |
| NEMA CODE LETTER                        | <b>G</b>  |              |             |
| EFFICIENCY / POWER FACTOR               | <u>LOAD</u>   | <u>EFF.</u>  | <u>P.F.</u> |
|   | <b>100 %</b>  | <b>96.2%</b> | <b>0.85</b> |
|   | <b>75 %</b>   | <b>96.5%</b> | <b>0.84</b> |
|   | <b>50 %</b>   | <b>96.3%</b> | <b>0.76</b> |
| DUTY CYCLE                              | <b>S1 / Continuous</b>                                |              |             |
| TORQUE                                  | <u>FULL LOAD</u>                                      | <u>LRT</u>   | <u>BDT</u>  |
|   | <b>587 lb.ft.</b>                                     | <b>180%</b>  | <b>250%</b> |
| SLIP                                    | <b>0.55 %</b>   |              |             |
| NEMA DESIGN                             | <b>B</b>  |              |             |
| MOMENT OF INERTIA                       | <b>61 lb.ft.<sup>2</sup></b>                          |              |             |
| MAX. TIME LOCKED ROTOR (Hot)            | <b>17 Seconds</b>                                     |              |             |
| SOUND PRESSURE LEVEL                    | <b>78 dB (A)</b>                                      |              |             |
| MAX. AMBIENT TEMPERATURE                | <b>40° C</b>  |              |             |
| MAX. ELEVATION                          | <b>3300 Ft.</b>                                       |              |             |
| TEMPERATURE RISE (At Full Load)         | <b>80° C</b>  |              |             |
| DE BEARING                              | <b>NU319 C3</b>                                       |              |             |
| ODE BEARING                             | <b>6313 C3</b>  |              |             |
| REGREASING INT. - DE BEARING            | <b>1500 Hours</b>                                     |              |             |
| REGREASING INT. - ODE BEARING           | <b>3000 Hours</b>                                     |              |             |
| GREASE TYPE                             | <b>SKF LGHP 2</b>                                     |              |             |
| MOUNTING                                | <b>F1 (F2 Suitable)</b>                               |              |             |
| ROTATION                                | <b>Bi-Directional</b>                                 |              |             |
| SHAFT MATERIAL                          | <b>1045 Carbon Steel</b>                              |              |             |
| INVERTER RATING                         | <b>10:1 CT / 20:1 VT PWM Type</b>                     |              |             |
| CONNECTION DIAGRAM                      | <b>230 / 460 V - 12 Lead Δ</b>                        |              |             |
| AREA CLASSIFICATION                     | <b>Class I, Division 2, Groups A, B, C, D</b>         |              |             |
| APPROXIMATE WEIGHT                      | <b>1964 lbs.</b>                                      |              |             |



**CC006A**





# WORLDWIDE ELECTRIC MOTOR DRAWING

## PEWWE-445/7T



**DIMENSIONS - INCHES**

| MOUNTING |      |     |      |     | A  | B  | C    | D  | G    | J   | P    | L  | AB |
|----------|------|-----|------|-----|----|----|------|----|------|-----|------|----|----|
| E        | 2F1  | 2F2 | H    | BA  |    |    |      |    |      |     |      |    |    |
| 9        | 16.5 | 20  | 0.81 | 7.5 | 22 | 24 | 47.4 | 11 | 1.38 | 3.4 | 23.5 | 23 | 20 |

| KEY   |      | KEYSET | SHAFT |       | TERMINAL BOX |     |    |      |      |
|-------|------|--------|-------|-------|--------------|-----|----|------|------|
| S     | ES   | R      | N-W   | U     | AA           | XB  | XC | XD   | XE   |
| 0.875 | 6.91 | 2.88   | 8.5   | 3.375 | 2 x 3        | 5.9 | 12 | 11.5 | 17.5 |

# PERFORMANCE CURVES

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net

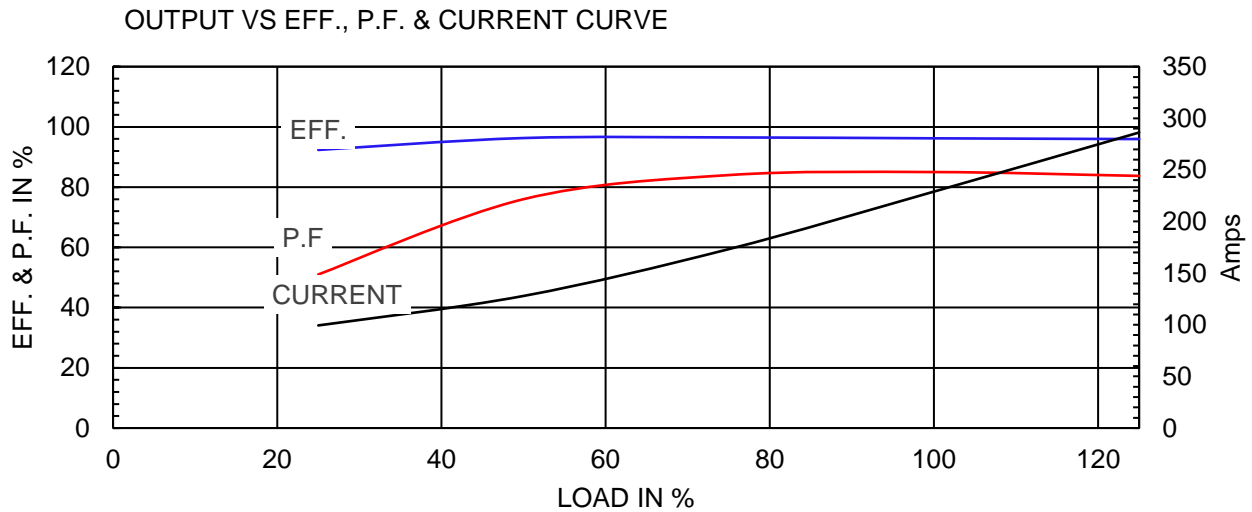
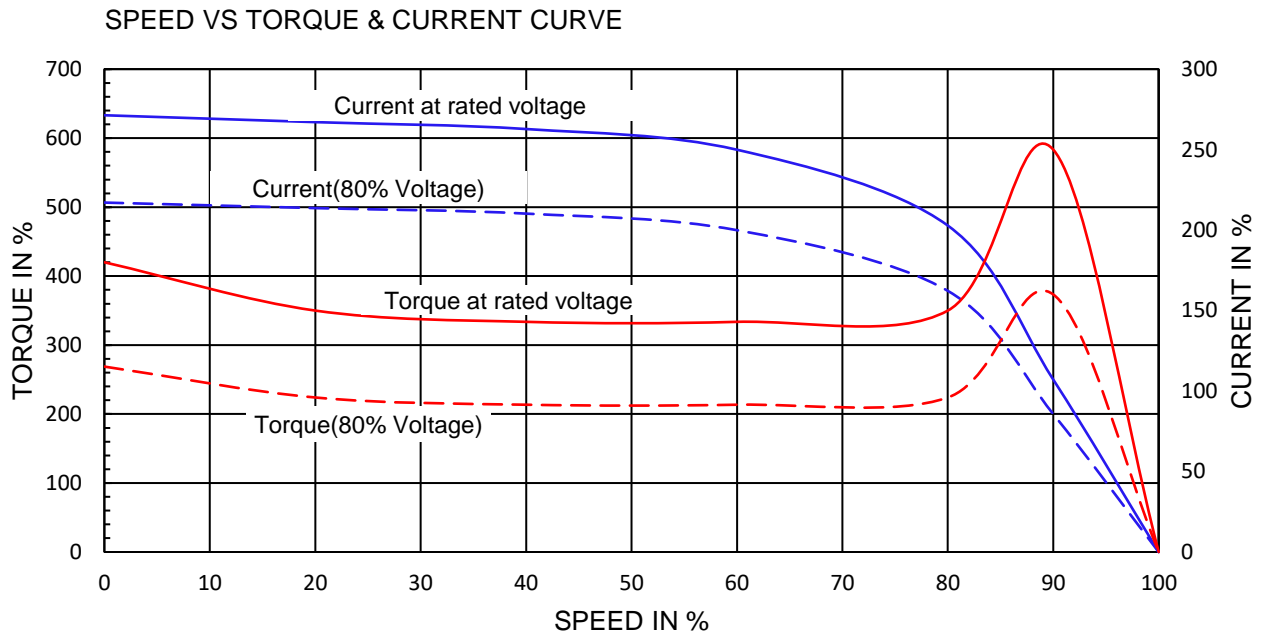


Premium Efficiency Motor: **PEWWE200-18-445/7T**

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|                       |                       |            |      |              |      |
|-----------------------|-----------------------|------------|------|--------------|------|
| Motor Type            | PEWWE                 |            |      |              |      |
| Output Rating (HP)    | 200                   | FL Speed   | 1790 |              |      |
| Full Load Torque      | 587 lb.ft             | LRT (%FLT) | 180  | 460 volt FLA | 229  |
| Rotor Wk <sup>2</sup> | 61 lb-ft <sup>2</sup> | BDT (%FLT) | 250  | 230 volt FLA | 458A |



# NAMEPLATE / WIRING

WorldWide Electric Corporation

1 (800) 808-2131

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Premium Efficiency Motor: **PEWWE200-18-445/7T**

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## SAMPLE NAMEPLATE DATA

|                                       |                    |   |               |           |                               |                      |                     |
|---------------------------------------|--------------------|---|---------------|-----------|-------------------------------|----------------------|---------------------|
|                                       |                    | <b>PREMIUM EFFICIENCY</b><br><b>3-PHASE INDUCTION MOTOR</b> |               |           | 259277<br>CC006A<br>ISO9001   |                      |                     |
| Model                                 | PEWWE200-18-445/7T |   | Ser No.       |           | ZP                            |                      |                     |
| HP                                    | 200                | S.F.  | 1.25          | Type      | Encl TEFC IP55                |                      |                     |
| Frame                                 | 445/7T             | P.F.  | 0.86          | Ins Cl    | F                             | Rating 40°C Amb Cont |                     |
| Voltage                               | 230/460            | Hz  | 60 Hz         | Design    | B                             | DE Brng NU319 C3     |                     |
| Amps                                  | 458A / 229A        | RPM   | 1790          | Code      | G                             | ODE Brng 6313 C3     |                     |
| Nom.Eff.                              | FL 96.2 %          | 3/4   | 96.3 %        | 230/460V  |                               | Date                 |                     |
| Usable on 208V network at             |                    | 501   | Amps 1.0SF    |           | Class I DIV. 2 Groups A B C D |                      | Amb.40°C T3A(180°C) |
| 10:1 CT                               |                    | 20:1 VT   | PWM VFD 1.0SF |           | Class I Zone 2 IIC            |                      | Amb.55°C T3(200°C)  |
| 50Hz                                  |                    | 200   | HP            | 200/400 V | V                             | 534 / 267            | A 1490 rpm 1.0SF    |
| <b>WorldWide Electric Corporation</b> |                    |   |               |           |                               |                      |                     |

**Low Voltage**

|    |    |    |
|----|----|----|
| 6  | 4  | 5  |
| 7  | 8  | 9  |
| 12 | 10 | 11 |
| 1  | 2  | 3  |
| L1 | L2 | L3 |

**High Voltage**

|    |    |    |
|----|----|----|
| 4  | 5  | 6  |
| 7  | 8  | 9  |
| 12 | 10 | 11 |
| 1  | 2  | 3  |
| L1 | L2 | L3 |

