

# DATA SHEET

Premium Efficiency Motor: **PEWWE30-36-286TS**

**60 Hz**

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



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## MOTOR INFORMATION

|                         |                                        |
|-------------------------|----------------------------------------|
| HP                      | 30                                     |
| RPM                     | 3600                                   |
| Phase                   | 3                                      |
| Frequency               | 60 Hz                                  |
| Voltage                 | 230/460 V                              |
| Frame Size              | 286TS                                  |
| Enclosure               | TEFC                                   |
| Degree of Protection    | IP55                                   |
| Service Factor          | 1.25                                   |
| Poles                   | 2                                      |
| Full Load Speed         | 3550                                   |
| Insulation Class        | F                                      |
| Temp Rise               | 80°C                                   |
| NEMA Code Letter        | G                                      |
| Duty Cycle              | S1 / Continuous                        |
| Slip                    | 1.40%                                  |
| NEMA Design             | B                                      |
| Moment of Inertia       | 1.61 lb.ft.^2                          |
| Locked Rotor Time (Hot) | 18 seconds                             |
| Sound Pressure Level    | 75 dB(A)                               |
| Number of Starts        | 2 Cold/ 1 Hot                          |
| Max Ambient Temperature | 40°C                                   |
| Max Elevation           | 1000 m.a.s.l (3300 f.a.s.l)            |
| Mounting                | F1                                     |
| Rotation                | Bi-Directional                         |
| Area of Classification  | Class I, Division 2, Groups A, B, C, D |
| Inverter Rating         | 10:1 CT / 20:1 VT PWM Type             |
| Standard                | NEMA MG-1                              |
| Approvals               | CSA-US, CE                             |

## EFFICIENCY/POWER FACTOR

| LOAD | EFF    | P. F. |
|------|--------|-------|
| 100% | 91.7 % | 0.88  |
| 75%  | 92.4 % | 0.86  |
| 50%  | 92.1 % | 0.82  |

## TORQUE

| FULL LOAD   | LRT   | BDT   |
|-------------|-------|-------|
| 44.4 lb.ft. | 150 % | 230 % |

## AMPERAGE INFORMATION

|                   | 230V  | 460V   |
|-------------------|-------|--------|
| Full Load Amps    | 69.6A | 34.8A  |
| Locked Rotor Amps | 435A  | 217.5A |
| No Load Current   | 21.2A | 10.6A  |
| Usable at 208V    | 77A   |        |

## BEARING INFORMATION

|                         |            |
|-------------------------|------------|
| DE Bearing              | 6311 C3    |
| ODE Bearing             | 6309 C3    |
| Grease Type             | SKF LGHP 2 |
| DE Regreasing Interval  | 2400 Hours |
| ODE Regreasing Interval | 3000 Hours |

## ADDITIONAL DATA

|                    |                         |
|--------------------|-------------------------|
| F2 Suitable        | Yes                     |
| Shaft Material     | 1045 Carbon Steel       |
| Connection Diagram | 230 / 460 V - 12 Lead Δ |
| Approximate Weight | 373 lbs.                |

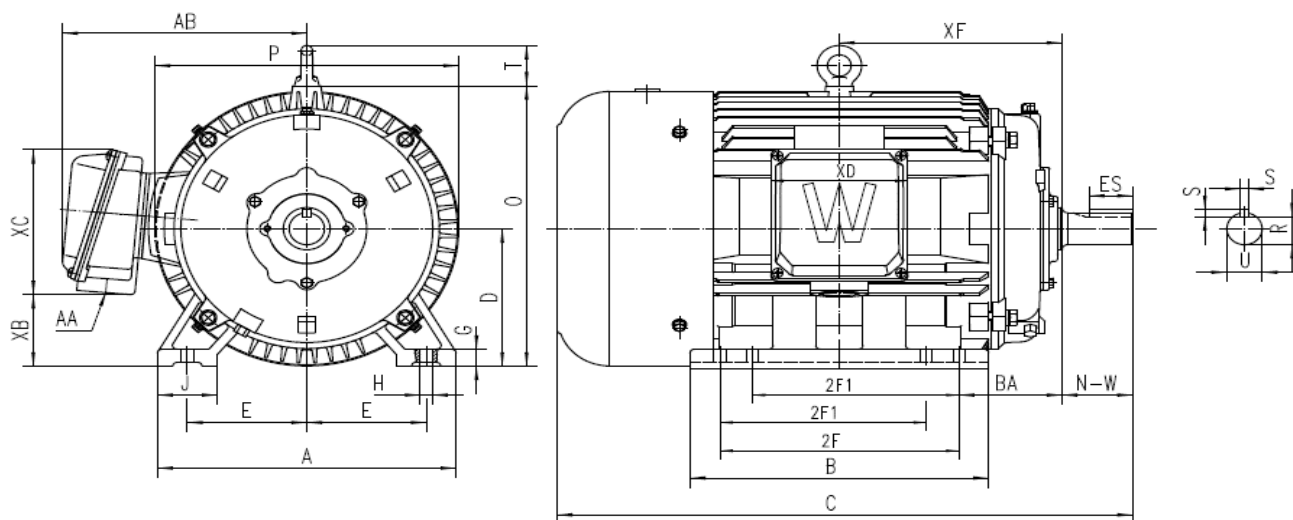
# MOTOR DRAWING

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## DIMENSION - INCHES

| MOUNTING |     |    |      |      | A     | B     | C      | D | G     | J     | P      | O      | T     | AB     |
|----------|-----|----|------|------|-------|-------|--------|---|-------|-------|--------|--------|-------|--------|
| E        | 2F1 | 2F | H    | BA   |       |       |        |   |       |       |        |        |       |        |
| 5.5      | 9.5 | 11 | 0.53 | 4.75 | 13.74 | 13.74 | 26.492 | 7 | 0.866 | 2.756 | 13.976 | 14.283 | 2.047 | 11.239 |

| SHAFT & KEY |      |       |      |       |
|-------------|------|-------|------|-------|
| S           | ES   | R     | N-W  | U     |
| 0.375       | 1.91 | 1.416 | 3.25 | 1.625 |

| TERMINAL BOX |       |       |       |        |
|--------------|-------|-------|-------|--------|
| AA           | XB    | XC    | XD    | XF     |
| 1.5          | 3.645 | 7.381 | 6.299 | 10.248 |

# PERFORMANCE CURVES

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Premium Efficiency Motor:

**PEWWE30-36-286TS**

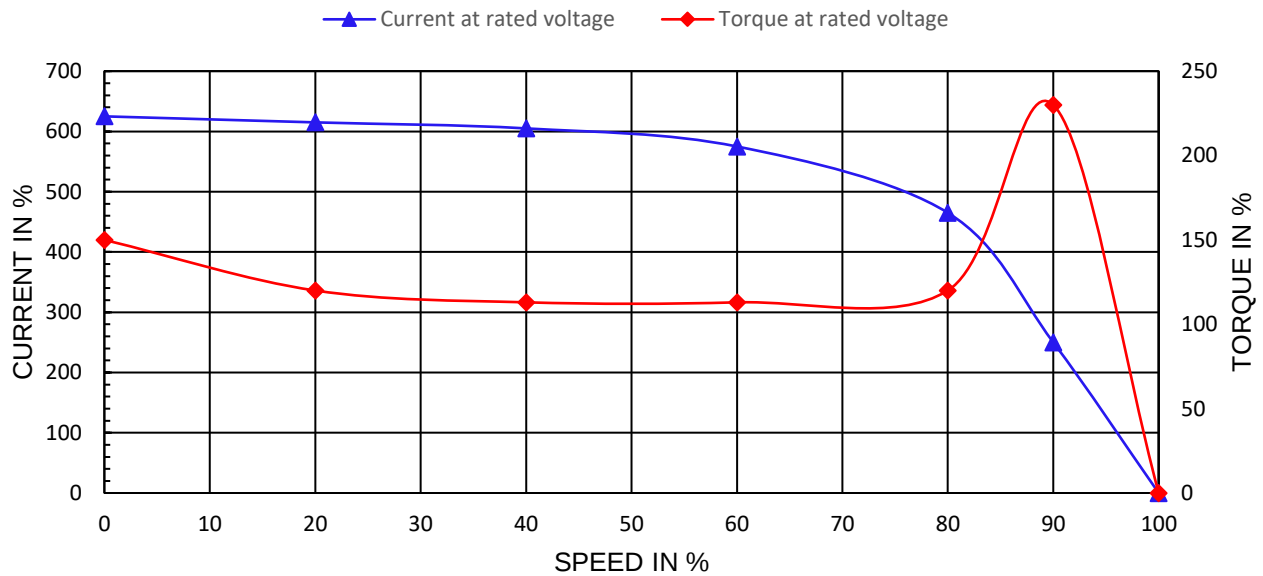
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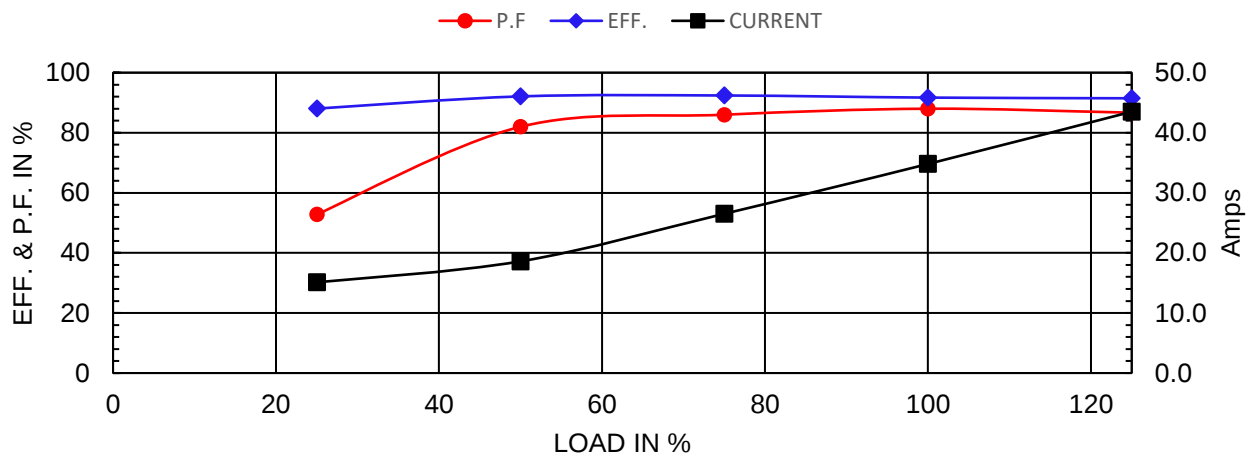
Customer:

|                    |       |         |            |      |              |      |   |
|--------------------|-------|---------|------------|------|--------------|------|---|
| Motor Type         | PEWWE |         | FL Speed   | 3550 |              |      |   |
| Output Rating (HP) | 30    |         | LRT (%FLT) | 150  | 460 volt FLA | 34.8 | A |
| Full Load Torque   | 44.4  | lb.ft   | BDT (%FLT) | 230  | 230 volt FLA | 69.6 | A |
| Rotor Wk^2         | 1.61  | lb-ft^2 |            |      |              |      |   |

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F. & CURRENT CURVE



# NAMEPLATE / WIRING

Premium Efficiency Motor:

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## SAMPLE NAMEPLATE DATA

|                                       |         |                     |   |                                                                                                 |         |            |             |                                                                                                                   |       |
|---------------------------------------|---------|---------------------|---|-------------------------------------------------------------------------------------------------|---------|------------|-------------|-------------------------------------------------------------------------------------------------------------------|-------|
|                                       |         | <b>NEMA Premium</b> |   | <b>3-PHASE INDUCTION MOTOR</b>                                                                  |         | 259277<br> |             | CE<br>CC006A                                                                                                      |       |
| Model                                 |         |                     |   | Ser No.                                                                                         |         |            |             | <div>Low Voltage</div> <div>6 4 5</div> <div>7 8 9</div> <div>12 10 11</div> <div>1 2 3</div> <div>L1 L2 L3</div> |       |
| HP                                    |         | S.F.                |   | IP                                                                                              |         | Encl       |             |                                                                                                                   |       |
| Frame                                 |         | P.F.                |   | Code                                                                                            |         | Type       |             |                                                                                                                   |       |
| Voltage                               | 230/460 | Hz                  |   | Ins Cl                                                                                          |         | Rating     | °C Amb Cont |                                                                                                                   |       |
| Amps                                  |         | RPM                 |   | Design                                                                                          |         | Date       |             |                                                                                                                   |       |
| Nom.Eff.                              | FL      | % 3/4               | % | 230/460V                                                                                        | 10:1 CT | 20:1 VT    | PWM         | VFD                                                                                                               | 1.0SF |
|                                       |         |                     |   | <div>DE Brng</div> <div>ODE Brng</div> <div>Grease type: LGHP 2 (compatible with polyrex)</div> |         |            |             |                                                                                                                   |       |
| Class I DIV. 2 Groups A B C D         |         | Amb.40°C            |   | T3C(160°C)                                                                                      |         |            |             |                                                                                                                   |       |
| Class I Zone 2 IIC                    |         | Amb.55°C            |   | T3A(180°C)                                                                                      |         |            |             |                                                                                                                   |       |
| 50Hz                                  | HP      | V                   | A | rpm                                                                                             | S.F1.0  |            |             |                                                                                                                   |       |
| <b>WorldWide Electric Corporation</b> |         |                     |   |                                                                                                 |         |            |             |                                                                                                                   |       |

Model **PEWWE30-36-286TS**

HP **30** S.F. **1.25** IP **IP55** Encl **TEFC**

Frame **286TS** P.F. **0.88** Code **G** Type

Voltage **230/460 V** Hz **60 Hz** Ins Cl **F** Ambient **40°C**

Amps **69.6/34.8** RPM **3550** Design **B** DE Brng **6311 C3**

Nom.Eff. **FL 91.7% 3/4 92.4%** ODE Brng **6309 C3**

Grease type: **SKF LGHP 2**

**50Hz 30 HP 200/400 V 80.4/40.2 A 2945 rpm**