

# DATA SHEET

Premium Efficiency Motor: **PEWWE5-36-184T**

**60 Hz**

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



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## MOTOR INFORMATION

|                         |                                        |
|-------------------------|----------------------------------------|
| HP                      | 5                                      |
| RPM                     | 3600                                   |
| Phase                   | 3                                      |
| Frequency               | 60 Hz                                  |
| Voltage                 | 230/460 V                              |
| Frame Size              | 184T                                   |
| Enclosure               | TEFC                                   |
| Degree of Protection    | IP55                                   |
| Service Factor          | 1.25                                   |
| Poles                   | 2                                      |
| Full Load Speed         | 3490                                   |
| Insulation Class        | F                                      |
| Temp Rise               | 80°C                                   |
| NEMA Code Letter        | J                                      |
| Duty Cycle              | S1 / Continuous                        |
| Slip                    | 3.06%                                  |
| NEMA Design             | B                                      |
| Moment of Inertia       | 0.16 lb.ft.^2                          |
| Locked Rotor Time (Hot) | 12 seconds                             |
| Sound Pressure Level    | 64 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% | 88.5 % | 0.88  |
| 75%  | 89.8 % | 0.83  |
| 50%  | 89.6 % | 0.73  |

## TORQUE

| FULL LOAD   | LRT   | BDT   |
|-------------|-------|-------|
| 7.52 lb.ft. | 210 % | 340 % |

## AMPERAGE INFORMATION

|                   | 230V  | 460V  |
|-------------------|-------|-------|
| Full Load Amps    | 12A   | 6.01A |
| Locked Rotor Amps | 92A   | 46A   |
| No Load Current   | 4.6A  | 2.3A  |
| Usable at 208V    | 13.3A |       |

## BEARING INFORMATION

|                         |           |
|-------------------------|-----------|
| DE Bearing              | 6206ZZ C3 |
| ODE Bearing             | 6206ZZ C3 |
| Grease Type             | -         |
| DE Regreasing Interval  | - Hours   |
| ODE Regreasing Interval | - Hours   |

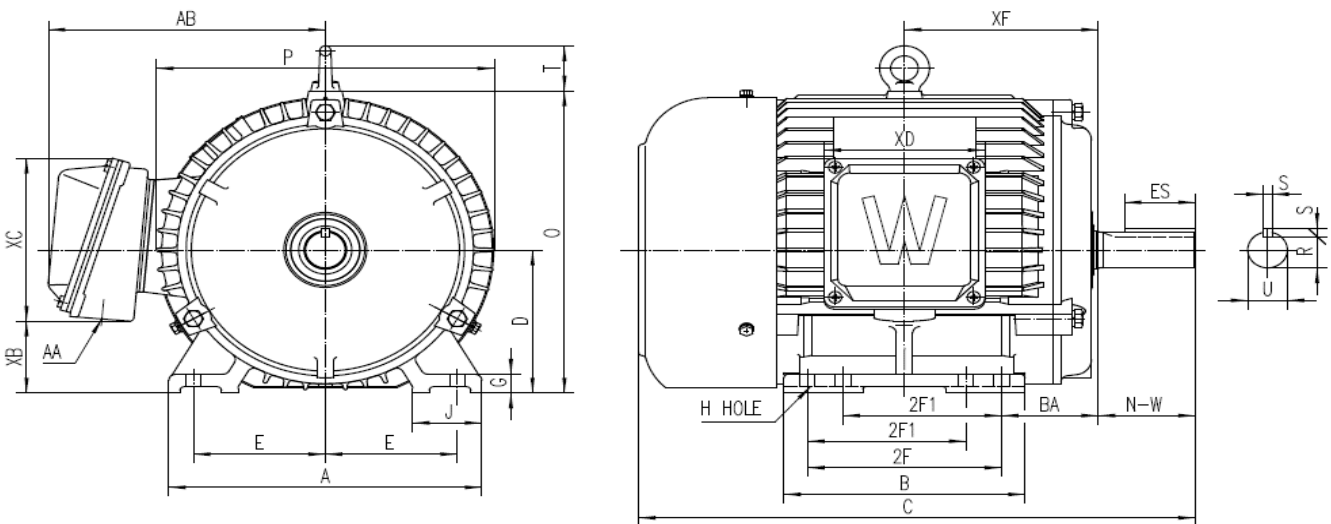
## ADDITIONAL DATA

|                    |                        |
|--------------------|------------------------|
| F2 Suitable        | Yes                    |
| Shaft Material     | 1045 Carbon Steel      |
| Connection Diagram | 230 / 460 V - 9 Lead Y |
| Approximate Weight | 91 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   |       |       |        |     |       |       |       |     |       |       |
| 3.75     | 4.5 | 5.5 | 0.41 | 2.75 | 8.898 | 6.852 | 15.827 | 4.5 | 0.591 | 1.969 | 9.606 | 9.5 | 1.417 | 7.876 |

| SHAFT & KEY |      |       |      |       |
|-------------|------|-------|------|-------|
| S           | ES   | R     | N-W  | U     |
| 0.25        | 1.78 | 0.986 | 2.75 | 1.125 |

| TERMINAL BOX |      |       |       |       |
|--------------|------|-------|-------|-------|
| AA           | XB   | XC    | XD    | XF    |
| 1            | 2.26 | 5.124 | 4.567 | 5.509 |

# PERFORMANCE CURVES

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Premium Efficiency Motor:

**PEWWE5-36-184T**

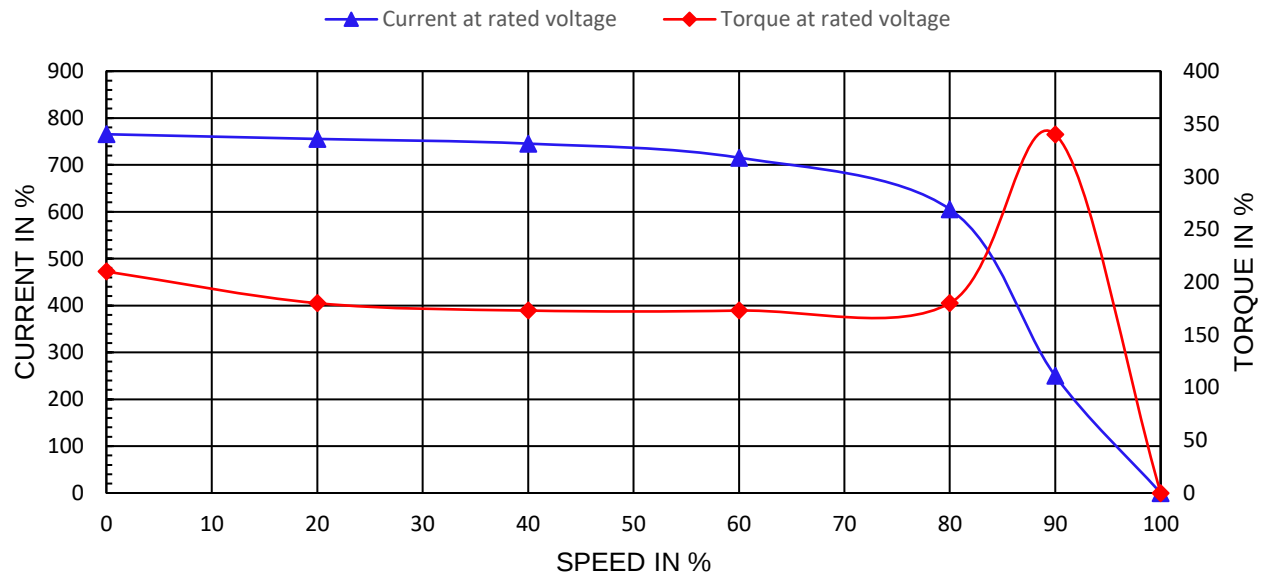
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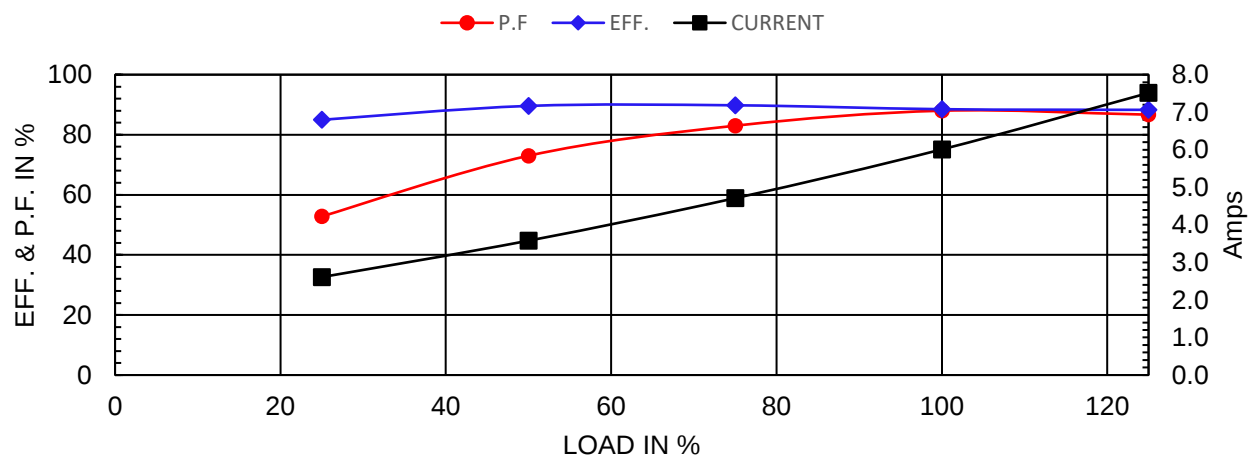
Customer:

|                    |              |  |            |      |              |        |
|--------------------|--------------|--|------------|------|--------------|--------|
| Motor Type         | PEWWE        |  | FL Speed   | 3490 |              |        |
| Output Rating (HP) | 5            |  | LRT (%FLT) | 210  | 460 volt FLA | 6.01 A |
| Full Load Torque   | 7.52 lb.ft   |  | BDT (%FLT) | 340  | 230 volt FLA | 12 A   |
| Rotor Wk^2         | 0.16 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.                 |            |             |              |  |
| 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      |             |              |  |
| Class I DIV. 2 Groups A B C D                                                                                                                                                                                                       |         |                     |  | Amb.40°C                       | T3C(160°C)              | DE Brng    |             |              |  |
| Class I Zone 2 IIC                                                                                                                                                                                                                  |         |                     |  | Amb.55°C                       | T3A(180°C)              | ODE Brng   |             |              |  |
|                                                                                                                                                                                                                                     |         |                     |  | Grease type:                   |                         |            |             |              |  |
| <div> <div>Low Voltage</div> <div> <div>4 5 6</div> <div>7 8 9</div> <div>1 2 3</div> <div>L1 L2 L3</div> </div> <div>High Voltage</div> <div> <div>4 5 6</div> <div>7 8 9</div> <div>1 2 3</div> <div>L1 L2 L3</div> </div> </div> |         |                     |  |                                |                         |            |             |              |  |
| <div> <div>50Hz</div> <div>HP</div> <div>V</div> <div>A</div> <div>rpm</div> <div>S.F1.0</div> </div>                                                                                                                               |         |                     |  |                                |                         |            |             |              |  |
| WorldWide Electric Corporation                                                                                                                                                                                                      |         |                     |  |                                |                         |            |             |              |  |

Model PEWWE5-36-184T

HP 5 S.F. 1.25 IP IP55 Encl TEFC

Frame 184T P.F. 0.88 Code J Type

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

Amps 12/6.01 RPM 3490 Design B DE Brng 6206ZZ C3

Nom.Eff. FL 88.5% 3/4 89.8% ODE Brng 6206ZZ C3

Grease type: -

50Hz 5 HP 200/400 V 14.3/7.13 A 2885 rpm