

DATA SHEET

Premium Efficiency Motor: **PEWWE100-18-405TC**

60 Hz

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



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Customer:

| MOTOR INFORMATION | |
|-------------------------|--|
| HP | 100 |
| RPM | 1800 |
| Phase | 3 |
| Frequency | 60 Hz |
| Voltage | 230/460 V |
| Frame Size | 405TC |
| Enclosure | TEFC |
| Degree of Protection | IP55 |
| Service Factor | 1.25 |
| Poles | 4 |
| Full Load Speed | 1785 |
| Insulation Class | F |
| Temp Rise | 80°C |
| NEMA Code Letter | G |
| Duty Cycle | S1 / Continuous |
| Slip | 0.83% |
| NEMA Design | B |
| Moment of Inertia | 28.1 lb.ft.^2 |
| Locked Rotor Time (Hot) | 16 seconds |
| Sound Pressure Level | 74 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 1 Division 2 Groups A,B,C,D T3A(180°C) |
| 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% | 95.4 % | 0.86 |
| 75% | 95.6 % | 0.84 |
| 50% | 95.4 % | 0.77 |

| TORQUE | | |
|------------|-------|-------|
| FULL LOAD | LRT | BDT |
| 294 lb.ft. | 160 % | 250 % |

| AMPERAGE INFORMATION | | |
|----------------------|-------|------|
| | 230V | 460V |
| Full Load Amps | 228A | 114A |
| Locked Rotor Amps | 1450A | 725A |
| No Load Current | 70A | 35A |
| Usable at 208V | 252A | |

| BEARING INFORMATION | |
|-------------------------|------------|
| DE Bearing | 6316 C3 |
| ODE Bearing | 6313 C3 |
| Grease Type | SKF LGHP 2 |
| DE Regreasing Interval | 2000 Hours |
| ODE Regreasing Interval | 3000 Hours |

| ADDITIONAL DATA | |
|--------------------|-------------------------|
| F2 Suitable | No |
| Shaft Material | 1045 Carbon Steel |
| Connection Diagram | 230 / 460 V - 12 Lead Δ |
| Approximate Weight | 1108 lbs. |

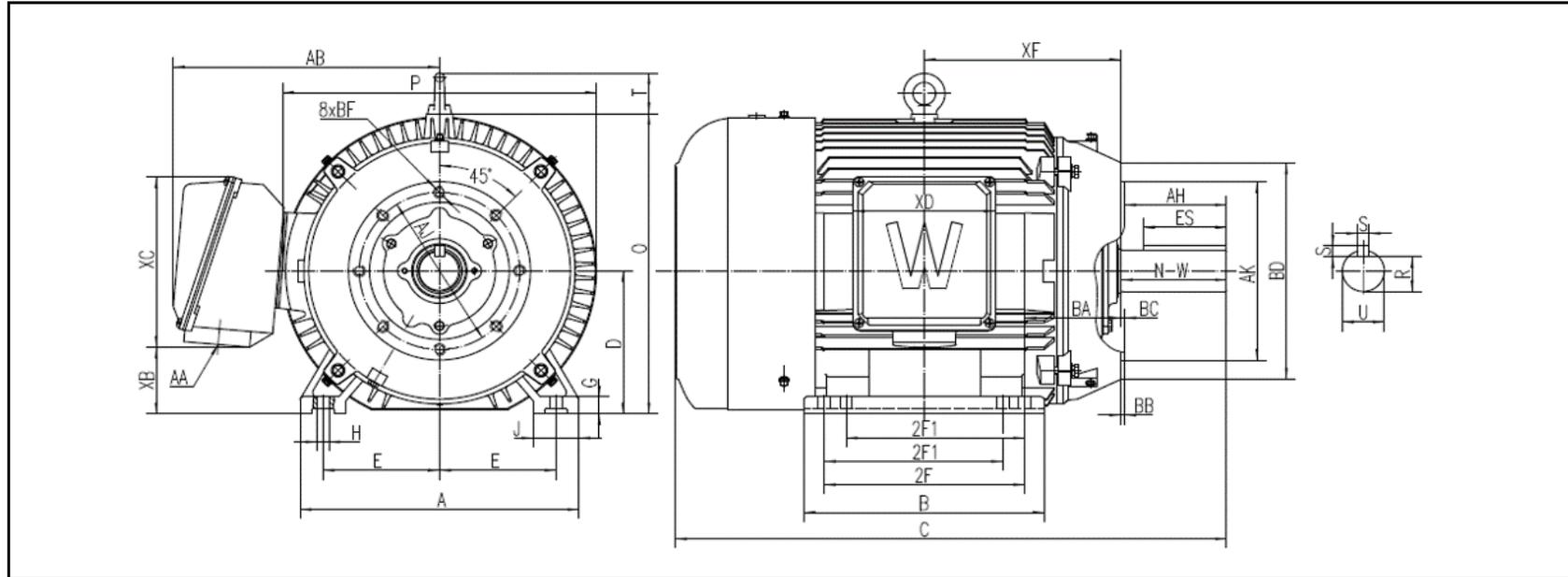
MOTOR DRAWING

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DIMENSION - INCHES

| MOUNTING | | | | | A | B | C | D | G | J | P | O | T | AB |
|----------|-------|-------|------|------|--------|--------|--------|----|-------|------|--------|--------|-------|--------|
| E | 2F1 | 2F | H | BA | | | | | | | | | | |
| 8 | 12.25 | 13.75 | 0.81 | 6.62 | 19.136 | 16.535 | 37.815 | 10 | 1.181 | 3.15 | 21.535 | 21.024 | 2.835 | 18.264 |

| SHAFT & KEY | | | | | |
|-------------|------|------|------|----|-------|
| S | ES | R | N-W | AH | U |
| 0.75 | 5.65 | 2.45 | 7.25 | 7 | 2.875 |

| TERMINAL BOX | | | | |
|--------------|-------|--------|-------|--------|
| AA | XB | XC | XD | XF |
| 3 | 4.659 | 11.933 | 9.764 | 13.494 |

| FLANGE | | | | | |
|--------|------|------|--------|--------|------|
| AJ | AK | BB | BD | BF | BC |
| 11 | 12.5 | 0.25 | 15.157 | 5/8-11 | 0.25 |

PERFORMANCE CURVES

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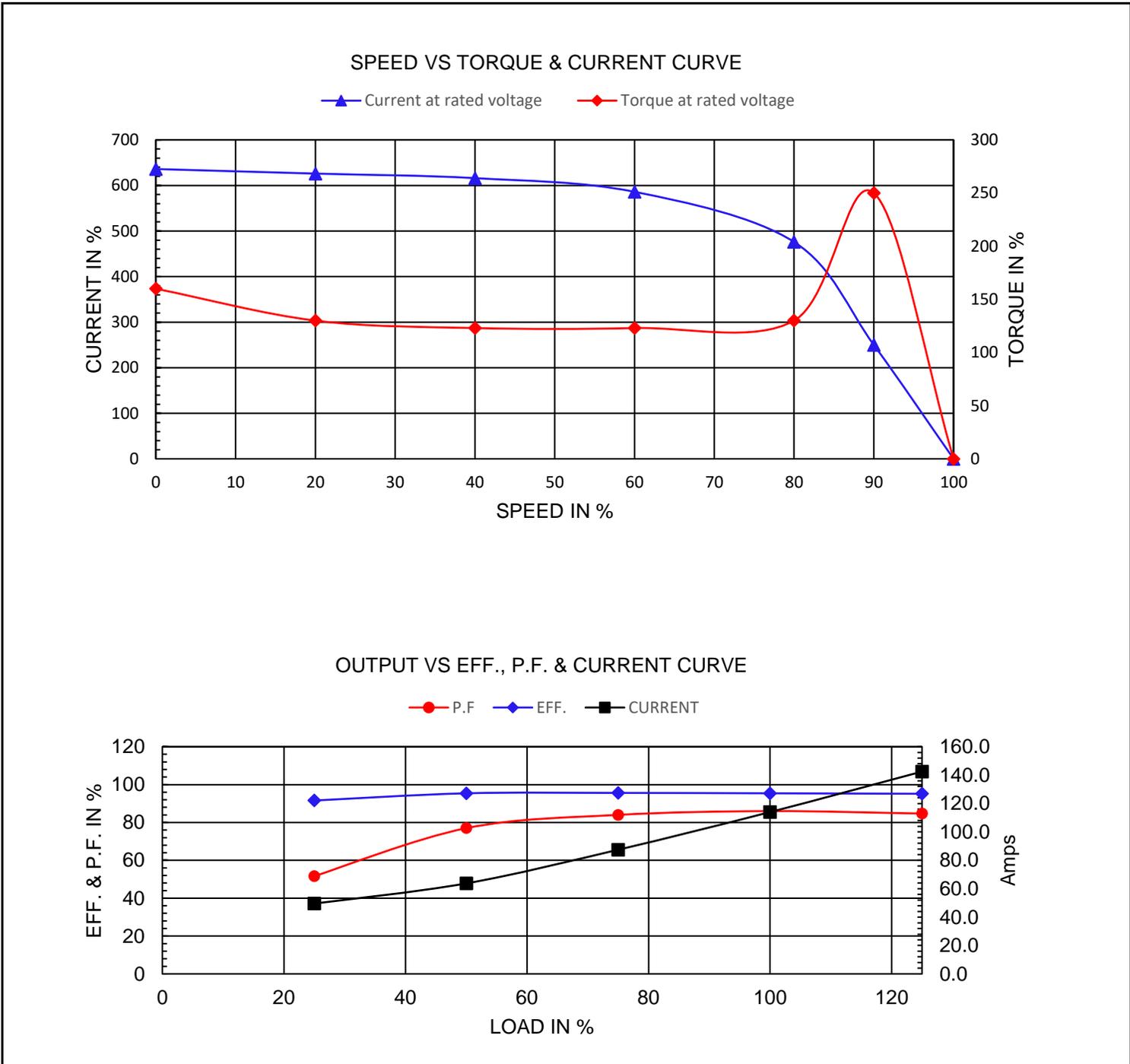


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| | | | |
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| | | | |
|--------------------|--------------|------------|----------------------|
| Motor Type | PEWWE | | |
| Output Rating (HP) | 100 | FL Speed | 1785 |
| Full Load Torque | 294 lb.ft | LRT (%FLT) | 160 460 volt FLA 114 |
| Rotor Wk^2 | 28.1 lb-ft^2 | BDT (%FLT) | 250 230 volt FLA 228 |



NAMEPLATE / WIRING

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SAMPLE NAMEPLATE DATA

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

| | | | | | | | |
|-----------------------------------|--|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|-------------------------|--------------------------------------|
| Model | <input type="text" value="PEWWE100-18-405TC"/> | | | | | | |
| HP | <input type="text" value="100"/> | S.F. | <input type="text" value="1.25"/> | IP | <input type="text" value="IP55"/> | Encl | <input type="text" value="TEFC"/> |
| Frame | <input type="text" value="405TC"/> | P.F. | <input type="text" value="0.86"/> | Code | <input type="text" value="G"/> | Type | |
| Voltage | <input type="text" value="230/460 V"/> | Hz | <input type="text" value="60 Hz"/> | Ins Cl | <input type="text" value="F"/> | Ambient | <input type="text" value="40°C"/> |
| Amps | <input type="text" value="228/114"/> | RPM | <input type="text" value="1785"/> | Design | <input type="text" value="B"/> | DE Brng | <input type="text" value="6316 C3"/> |
| Nom.Eff. | <input type="text" value="FL"/> | <input type="text" value="95.4%"/> | <input type="text" value="3/4"/> | <input type="text" value="95.6%"/> | | ODE Brng | <input type="text" value="6313 C3"/> |
| Class 1 Division 2 Groups A,B,C,D | | | | | | T3A(180°C) | |
| | | | | | | Grease type: SKF LGHP 2 | |
| 50Hz | | | | | | | |
| 100 HP | | 200/400 V | | 266/13: A | | 1485 rpm | |
| Eff. 94% | | | | | | | |