



WORLDWIDE ELECTRIC MOTOR DATA SHEET

PEWWE1-18-143T



| | | | |
|-----------------------------------------|------------------------------------------------|-------------|-------------|
| HORSEPOWER | 1 | | |
| RPM / POLES | 1800 / 4 | | |
| VOLTAGE / PHASE | 230 / 460 V / 3 | | |
| FRAME | 143T | | |
| ENCLOSURE / DEGREE OF PROTECTION | TEFC / IP55 | | |
| FREQUENCY | 60 HZ Suitable For 50 HZ Operation With 1.0 SF | | |
| FULL LOAD SPEED | 1755 RPM | | |
| SERVICE FACTOR | 1.25 | | |
| INSULATION CLASS | F | | |
| FULL LOAD AMPS; 230 / 460 | 3.27 / 1.63 A (Usable On 208V At 3.61 A) | | |
| LOCKED ROTOR AMPS (STARTING); 230 / 460 | 30 / 15 A | | |
| NO LOAD CURRENT | 2.2 / 1.1 A | | |
| NEMA CODE LETTER | N | | |
| EFFICIENCY / POWER FACTOR | <u>LOAD</u> | <u>EFF.</u> | <u>P.F.</u> |
| | 100 % | 85.5% | 0.67 |
| | 75 % | 84.5% | 0.60 |
| DUTY CYCLE | 50 % | 81.0% | 0.47 |
| | S1 / Continuous | | |
| TORQUE | <u>FULL LOAD</u> | <u>LRT</u> | <u>BDT</u> |
| | 2.99 lb.ft. | 300% | 420% |
| SLIP | 2.5 % | | |
| NEMA DESIGN | B | | |
| MOMENT OF INERTIA | 0.089 lb.ft. ² | | |
| MAX. TIME LOCKED ROTOR (Hot) | 12 Seconds | | |
| SOUND PRESSURE LEVEL | 60 dB (A) | | |
| MAX. AMBIENT TEMPERATURE | 40° C | | |
| MAX. ELEVATION | 3300 Ft. | | |
| TEMPERATURE RISE (At Full Load) | 80° C | | |
| DE BEARING | 6205ZZ C3 | | |
| ODE BEARING | 6205ZZ C3 | | |
| REGREASING INT. - DE BEARING | --- | | |
| REGREASING INT. - ODE BEARING | --- | | |
| GREASE TYPE | SKF LGHP 2 | | |
| MOUNTING | F1 (F2 Suitable) | | |
| ROTATION | Bi-Directional | | |
| SHAFT MATERIAL | 1045 Carbon Steel | | |
| INVERTER RATING | 10:1 CT / 20:1 VT PWM Type | | |
| CONNECTION DIAGRAM | 230 / 460 V - 9 Lead Y | | |
| AREA CLASSIFICATION | Class I, Division 2, Groups A, B, C, D | | |
| APPROXIMATE WEIGHT | 41 lbs. | | |



CC006A





WORLDWIDE ELECTRIC MOTOR DRAWING

PEWWE-143T



DIMENSIONS - INCHES

| MOUNTING | | | | | A | B | C | D | G | J | P | L | AB |
|----------|-----|-----|------|------|---|-----|------|-----|------|---|-----|-----|-----|
| E | 2F1 | 2F2 | H | BA | | | | | | | | | |
| 2.75 | - | 4 | 0.34 | 2.25 | 7 | 5.6 | 12.5 | 3.5 | 0.43 | 1 | 7.8 | 7.6 | 6.7 |

| KEY | | KEYSET | SHAFT | | TERMINAL BOX | | | | |
|-------|------|--------|-------|-------|--------------|-----|-----|-----|------|
| S | ES | R | N-W | U | AA | XB | XC | XD | XE |
| 0.188 | 1.41 | 0.771 | 2.25 | 0.875 | 0.75 | 1.6 | 4.6 | 4.1 | 3.95 |

PERFORMANCE CURVES

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



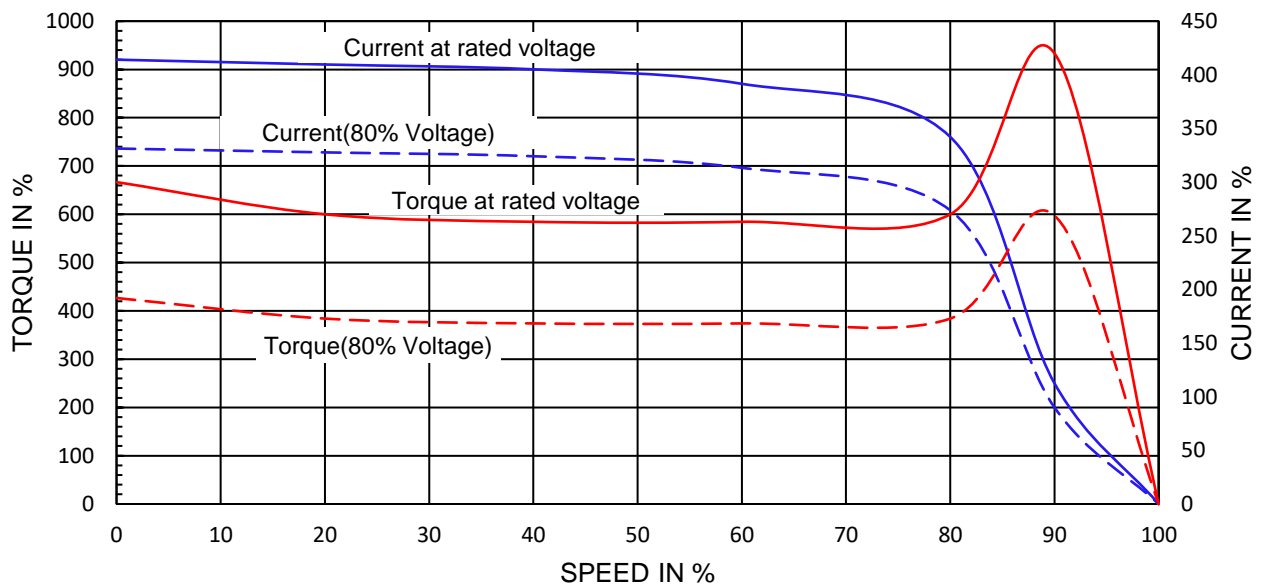
Premium Efficiency Motor:

PEWWE1-18-143T

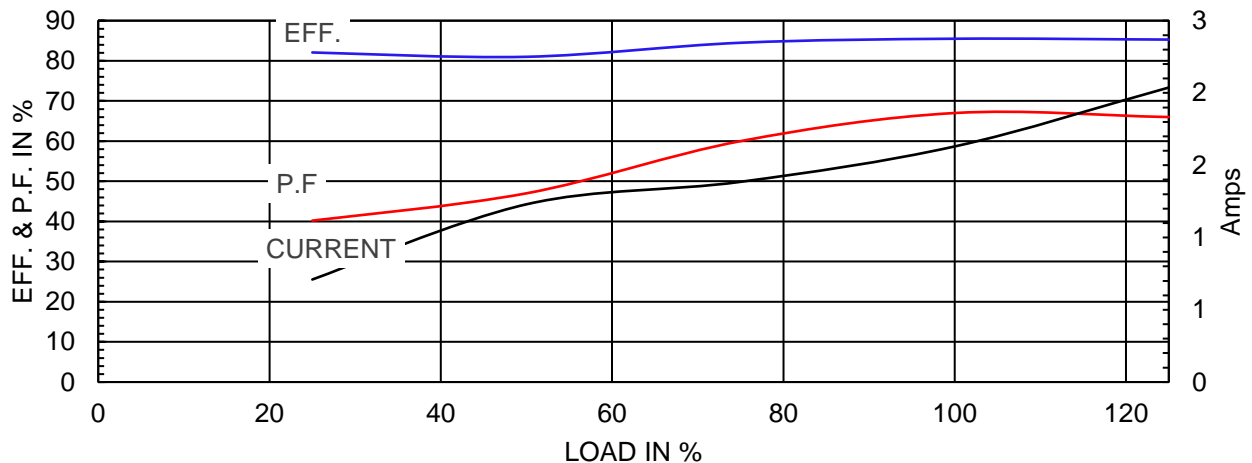
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|-----------------------|---------------------------|------------|------|--------------|-------|
| Motor Type | PEWWE | | | | |
| Output Rating (HP) | 1 | FL Speed | 1755 | | |
| Full Load Torque | 2.99 lb.ft | LRT (%FLT) | 300 | 460 volt FLA | 1.63 |
| Rotor Wk ² | 0.0809 lb-ft ² | BDT (%FLT) | 420 | 230 volt FLA | 3.27A |

SPEED VS TORQUE & CURRENT CURVE



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



NAMEPLATE / WIRING

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



Premium Efficiency Motor: **PEWWE1-18-143T**

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SAMPLE NAMEPLATE DATA

| | | | | | |
|-----------------------------------------------------|----------------|-------------------------------------------------------------|--------|-------------------|------------|
| | | PREMIUM EFFICIENCY 3-PHASE INDUCTION MOTOR | | CC006A ISO9001 | 259277 |
| Model | PEWWE1-18-143T | Ser No. | ZP | | |
| HP | 1 | S.F. | 1.25 | Type | TEFC IP55 |
| Frame | 143T | P.F. | 0.71 | Ins Cl | F |
| Voltage | 230/460 | Hz | 60 Hz | Design | B |
| Amps | 3.27A / 1.63A | RPM | 1755 | Code | N |
| Nom. Eff. | FL 85.5 % | 3/4 | 85.1 % | 230/460V | Date |
| Usable on 208V network at 3 Amps 1.0SF | | Class I DIV. 2 Groups A B C D | | Amb.40°C | T3C(160°C) |
| 10:1 CT 20:1 VT PWM VFD 1.0SF | | Class I Zone 2 IIC | | Amb.55°C | T3A(180°C) |
| 50Hz 1 HP 200/400 V V 4.04 / 2.02 A 1450 rpm S.F1.0 | | | | | |

Low Voltage

High Voltage

