# DATA SHEET

Premium Efficiency Motor: **PEWWE50-12-365TC** **60 Hz**

WorldWide Electric Corporation
1 (800) 808-2131
Worldwideelectric.net

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## MOTOR INFORMATION

| | |
|---|---|
| HP | 50 |
| RPM | 1200 |
| Phase | 3 |
| Frequency | 60 Hz |
| Voltage | 230/460 V |
| Frame Size | 365TC |
| Enclosure | TEFC |
| Degree of Protection | IP55 |
| Service Factor | 1.25 |
| Poles | 6 |
| Full Load Speed | 1185 |
| Insulation Class | F |
| Temp Rise | 80°C |
| NEMA Code Letter | G |
| Duty Cycle | S1 / Continuous |
| Slip | 1.25% |
| NEMA Design | B |
| Moment of Inertia | 24.1 lb.ft.^2 |
| Locked Rotor Time (Hot) | 13 seconds |
| Sound Pressure Level | 71 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 |

## ADDITIONAL DATA

| | |
|---|---|
| F2 Suitable | Yes |
| Shaft Material | 1045 Carbon Steel |
| Connection Diagram | 230 / 460 V - 12 Lead Δ |
| Approximate Weight | 844 lbs. |

## EFFICIENCY/POWER FACTOR

| LOAD | EFF | P. F. |
|---|---|---|
| 100% | 94.1 % | 0.82 |
| 75% | 94.3 % | 0.78 |
| 50% | 93.6 % | 0.68 |

## TORQUE

| FULL LOAD | LRT | BDT |
|---|---|---|
| 222 lb.ft. | 210 % | 250 % |

## AMPERAGE INFORMATION

| | 230V | 460V |
|---|---|---|
| Full Load Amps | 121A | 60.7A |
| Locked Rotor Amps | 725A | 362.5A |
| No Load Current | 49A | 24.5A |
| Usable at 208V | 134A | |

## BEARING INFORMATION

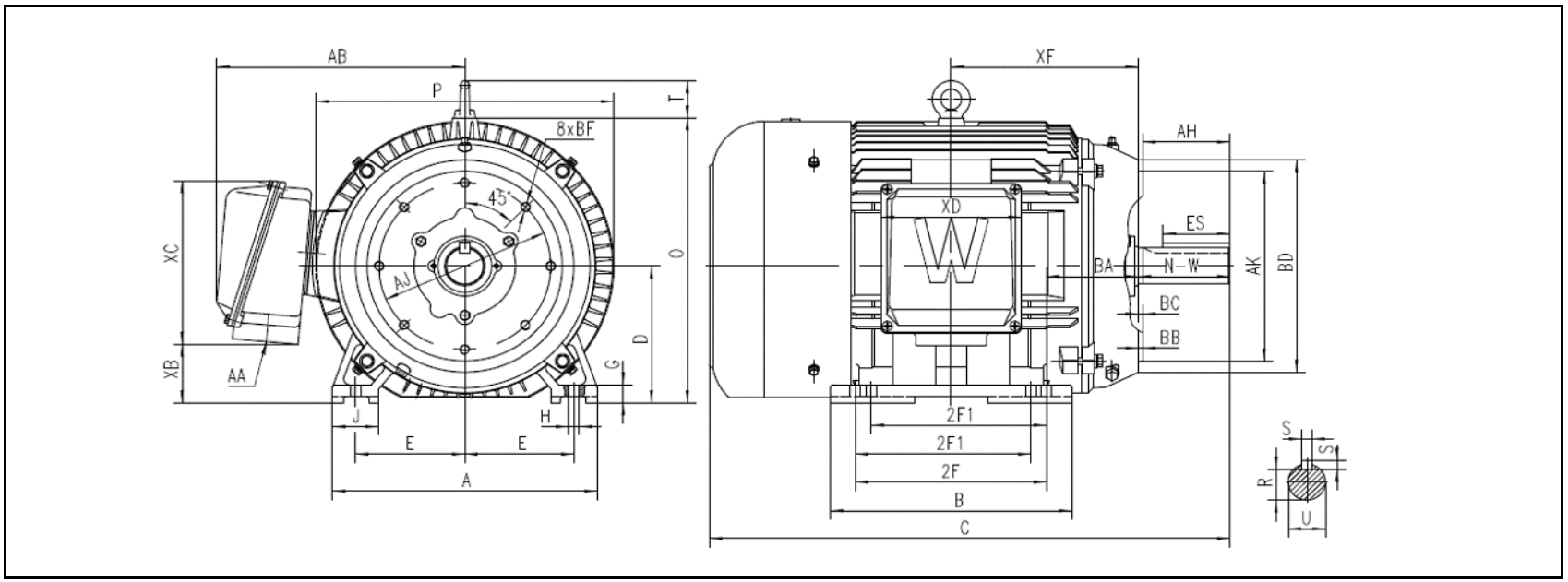
| | |
|---|---|
| DE Bearing | 6313 C3 |
| ODE Bearing | 6312 C3 |
| Grease Type | SKF LGHP 2 |
| DE Regreasing Interval | 4500 Hours |
| ODE Regreasing Interval | 6000 Hours |

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# MOTOR DRAWING

Premium Efficiency Motor: **PEWWE50-12-365TC**

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## DIMENSION - INCHES

| MOUNTING | | | | | A | B | C | D | G | J | P | O | T | AB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| E | 2F1 | 2F | H | BA | | | | | | | | | | |
| 7 | 11.25 | 12.25 | 0.66 | 5.88 | 16.969 | 15.472 | 33.36 | 9 | 1.181 | 2.953 | 19.091 | 18.8 | 2.441 | 15.899 |

| SHAFT & KEY | | | | | |
|---|---|---|---|---|---|
| S | ES | R | N-W | AH | U |
| 0.625 | 4.28 | 2.021 | 5.88 | 5.62 | 2.375 |

| TERMINAL BOX | | | | |
|---|---|---|---|---|
| AA | XB | XC | XD | XF |
| 3 | 3.849 | 10.783 | 8.976 | 11.988 |

| FLANGE | | | | | |
|---|---|---|---|---|---|
| AJ | AK | BB | BD | BF | BC |
| 11 | 12.5 | 0.25 | 13.989 | 5/8-11 | 0.25 |

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# PERFORMANCE CURVES

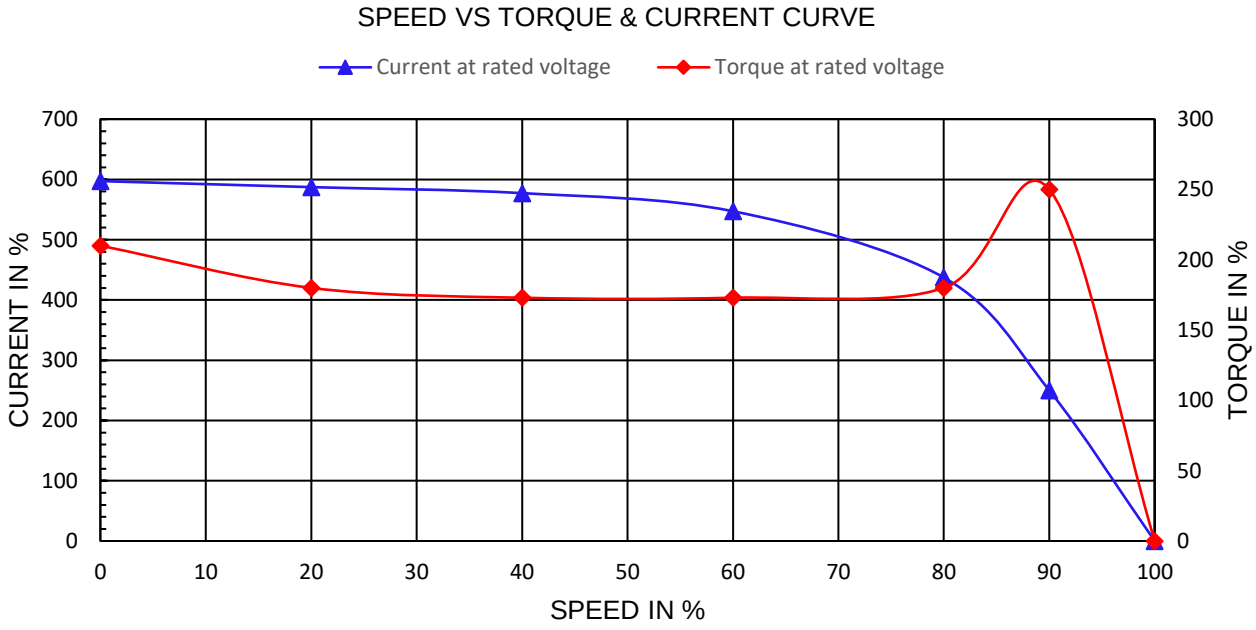
Premium Efficiency Motor: **PEWWE50-12-365TC**

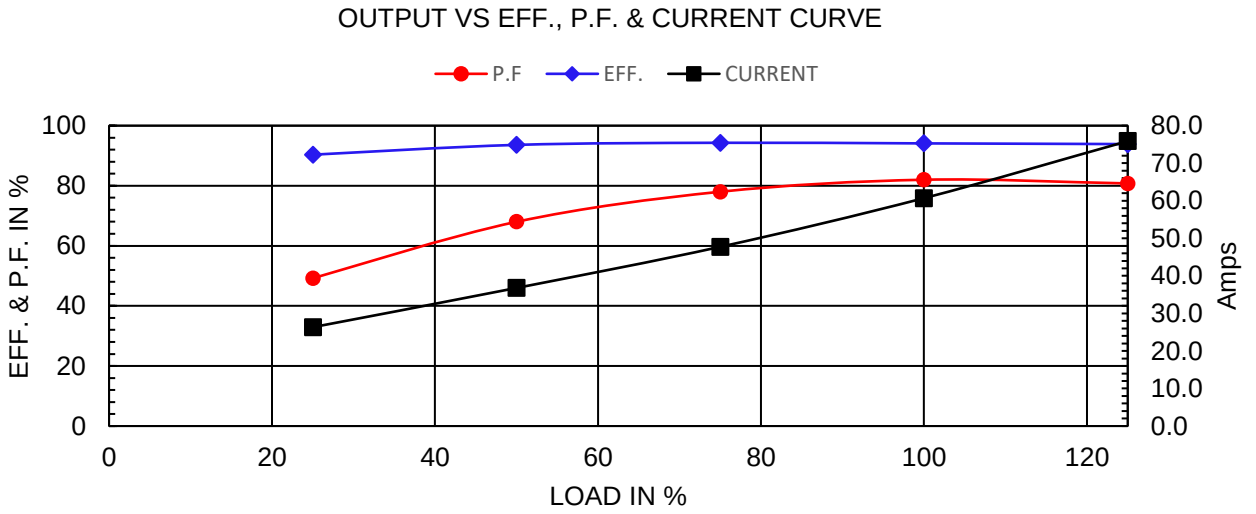
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|---|---|---|---|---|---|---|---|
| Motor Type | PEWWE | | | | | | |
| Output Rating (HP) | 50 | | FL Speed | 1185 | | | |
| Full Load Torque | 222 | lb.ft | LRT (%FLT) | 210 | 460 volt FLA | 60.7 | |
| Rotor Wk^2 | 24.1 | lb-ft^2 | BDT (%FLT) | 250 | 230 volt FLA | 121 | |




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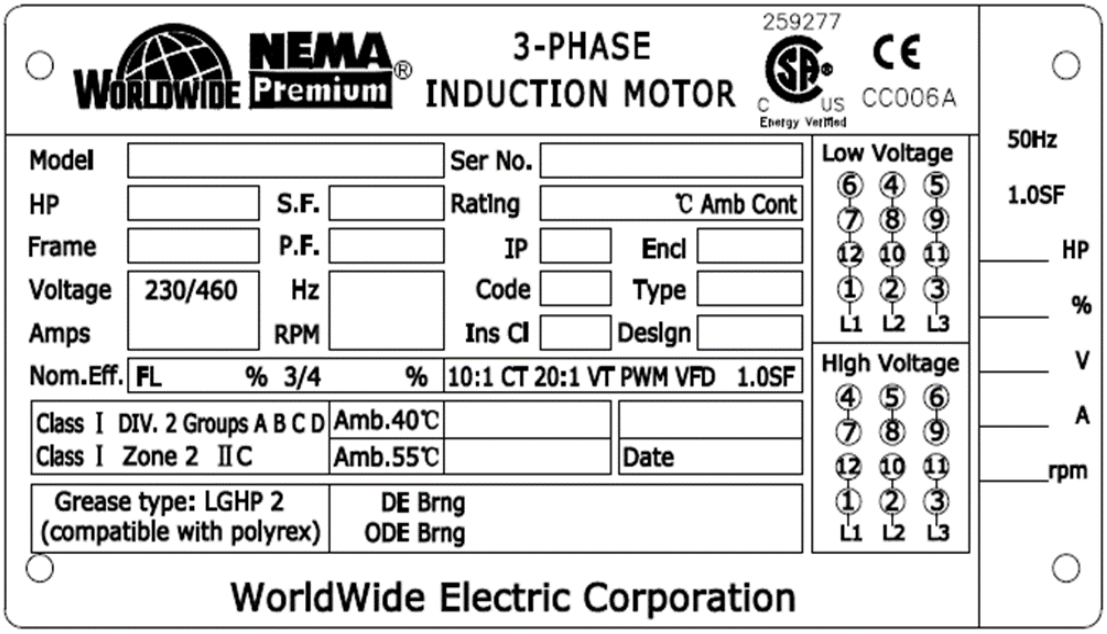
# NAMEPLATE / WIRING

Premium Efficiency Motor: **PEWWE50-12-365TC**

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# SAMPLE NAMEPLATE DATA




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Model | PEWWE50-12-365TC | | | | | | |
| HP | 50 | S.F. | 1.25 | IP | IP55 | Encl | TEFC |
| Frame | 365TC | P.F. | 0.82 | Code | G | Type | |
| Voltage | 230/460 V | Hz | 60 Hz | Ins Cl | F | Ambient | 40°C |
| Amps | 121/60.7 | RPM | 1185 | Design | B | DE Brng | 6313 C3 |
| Nom.Eff. | FL 94.1% | 3/4 | 94.3% | | | ODE Brng | 6312 C3 |
| Class 1 Division 2 Groups A,B,C,D T3A(180°C) | | | | | | Grease type: | SKF LGHP 2 |

50Hz

| | | | |
|---|---|---|---|
| 50 HP | 200/400 V | 142/71. A | 985 rpm |
| | | Eff. 92.2% | |

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