# DATA SHEET

Premium Efficiency Motor: **ODP100-18-404T,** **60 Hz**

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

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## MOTOR INFORMATION

| | |
|---|---|
| HP | 100 |
| RPM | 1800 |
| Phase | 3 |
| Frequency | 60 |
| Voltage | 230/460 |
| Frame Size | 404/5T |
| Enclosure | ODP |
| Degree of Protection | IP23 |
| Service Factor | 1.15 |
| Poles | 4 |
| Full Load Speed | 1785 |
| Insulation Class | F |
| Temp Rise | 80˚C |
| NEMA Code Letter | E |
| Duty Cycle | S1 / Continuous |
| Slip | 0.81% |
| NEMA Design | B |
| Moment of Inertia | 23.76 lb.ft.^2 |
| Locked Rotor Time (Hot) | 12 seconds |
| Sound Pressure Level | 80 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 | Safe Area |
| Inverter Rating | 10:1 CT / 20:1 VT |
| Standard | NEMA MG 1 |
| Approvals | UL, CE |

## ADDITIONAL DATA

| | |
|---|---|
| F2 Suitable | Yes |
| Shaft Material | AISI 1045 |
| Connection Diagram | 12 Lead Delta |
| Approximate Weight | 1034 lbs. |

## EFFICIENCY/POWER FACTOR

| LOAD | EFF | P. F. |
|---|---|---|
| 100% | 95.4 % | 0.86 |
| 75% | 95.5 % | 0.85 |
| 50% | 95.0 % | 0.79 |

## TORQUE

| FULL LOAD | LRT | BDT |
|---|---|---|
| 294.7 lb.ft. | 192 % | 253 % |

## AMPERAGE INFORMATION

| | 230V | 460V |
|---|---|---|
| Full Load Amps | 229.6A | 114.8A |
| Locked Rotor Amps | 1209.6A | 604.8A |
| No Load Current | 64.8A | 32.4A |
| Usable at 208V | 124.07A | |

## BEARING INFORMATION

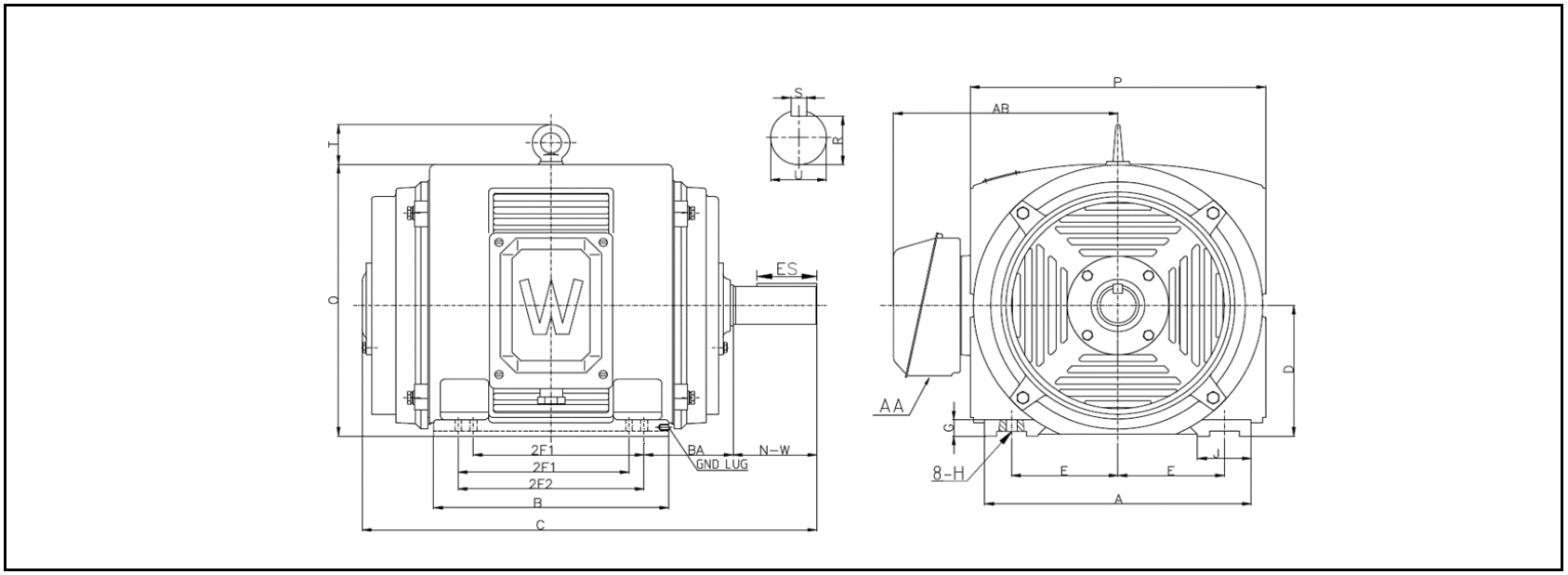
| | |
|---|---|
| DE Bearing | 6316 |
| ODE Bearing | 6313 |
| Grease Type | Mobil Polyrex EM |
| DE Regreasing Interval | 2400 Hours |
| ODE Regreasing Interval | 3600 Hours |
| Grease Quantity | 26g/12g |

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# MOTOR DRAWING

Premium Efficiency Motor: **ODP100-18-404T**

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## DIMENSION - INCHES

| MOUNTING | | | | | A | B | C | D | G | P | O | T | AB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| E | 2F1 | 2F2 | H | BA | | | | | | | | | |
| 8 | 12.25 | 13.75 | 0.81 | 6.62 | 20 | 17.6 | 33.7 | 10 | 1.18 | 21.3 | 20.3 | 3 | 16.93 |

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

| T-BOX | GND |
|---|---|
| AA | LUG |
| 3 | M12*P1.75 |

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# PERFORMANCE CURVES

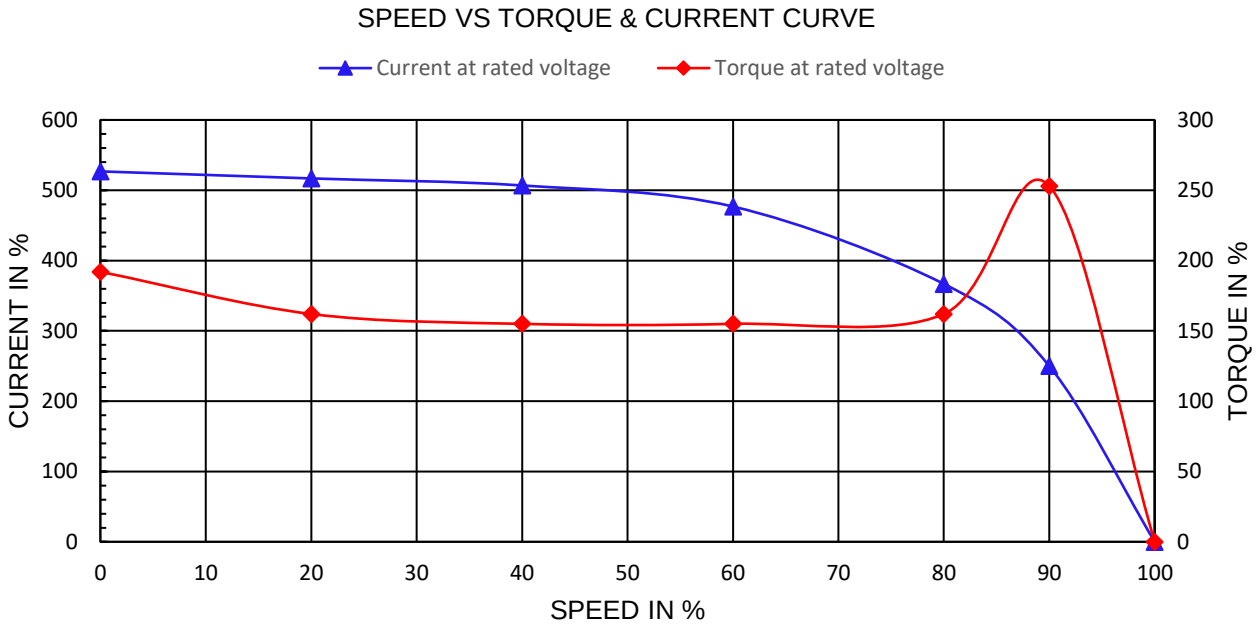
Premium Efficiency Motor: **ODP100-18-404T**

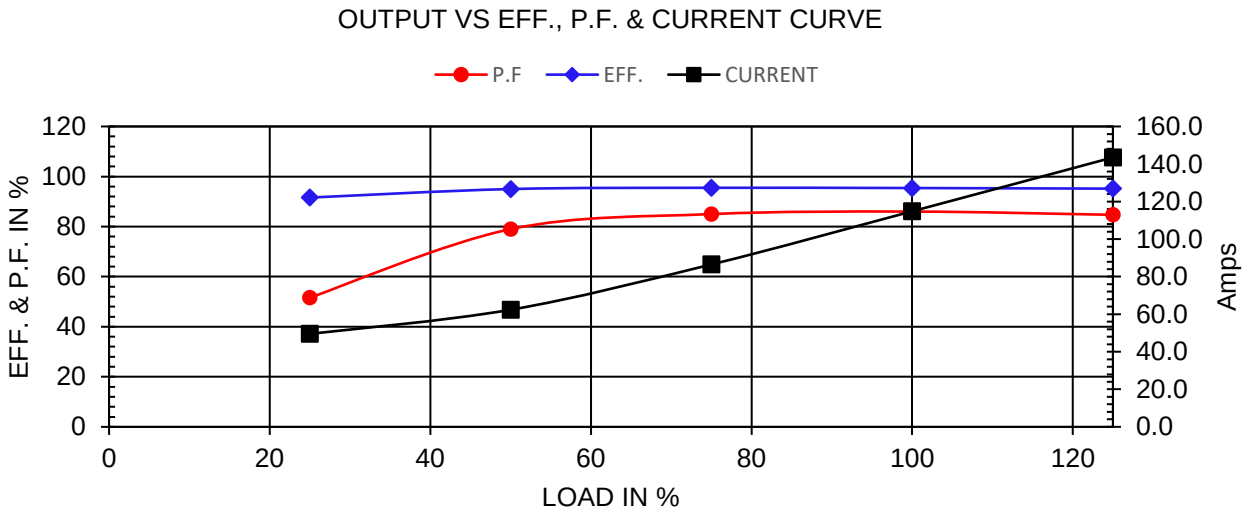
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|---|---|---|---|---|---|---|
| Motor Type | ODP | | | | | |
| Output Rating (HP) | 100 | | FL Speed | 1785 | | |
| Full Load Torque | 294.7 | lb.ft | LRT (%FLT) | 192 | 460 volt FLA | 114.8 |
| Rotor Wk^2 | 0.954 | lb-ft^2 | BDT (%FLT) | 253 | 230 volt FLA | 229.6 |




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# NAMEPLATE / WIRING

Premium Efficiency Motor: **ODP100-18-404T**

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# SAMPLE NAMEPLATE DATA

WORLDWIDE CC306B

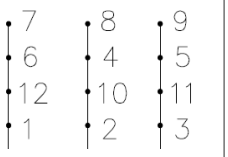
OPEN DRIP PROOF
3 PHASE MOTOR

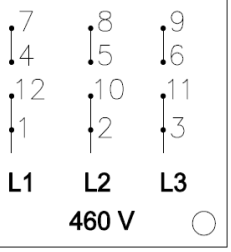
NEMA Premium ENERGY c UL us E309286 CE

| | | | | | | |
|---|---|---|---|---|---|---|
| Model : | | Encl : | | SN : | | |
| HP : | Poles : | FR: | Ins : | IP23 | Max Amb 40℃ | Duty:Cont |

| | | | |
|---|---|---|---|
| Hz : | CODE : | Hz : | Design : |
| Volts : | P.F : | Volts : | DE BRG : |
| Amps : | Eff : | Amps : | ODE BRG : |
| RPM : | S.F : | RPM : | WT : |
| | | S.F : | Date : |

WorldWide Electric Corporation




| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Model:** | ODP100-18-404T | | | **Encl:** | ODP | | | | |
| **HP:** | 100 | **Poles:** | 4 | **Frame** | 404/5T | **Ins Cl:** | F | **IP** | IP23 |
| **Hz:** | 60 | **Code:** | E | **Hz:** | 50 | **Design:** | B | | |
| **Volts:** | 230/460 | **P.F.:** | 0.86 | **Volts:** | 190/380 | **DE Brg:** | 6316 | | |
| **Amps:** | 229.6/114.8 | **Eff:** | 95.4% | **Amps:** | 281.2/140.6 | **ODE Brg:** | 6313 | | |
| **RPM:** | 1785 | **S.F.:** | 1.15 | **RPM:** | 1484 | **WT:** | 1034 lbs. | | |
| | | | | **S.F.:** | 1.0 | | | | |

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