

# DATA SHEET

Premium Efficiency Motor: **ODP75-36-364TSC,**

**60 Hz**

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



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Customer:

| MOTOR INFORMATION       |                             |
|-------------------------|-----------------------------|
| HP                      | 75                          |
| RPM                     | 3600                        |
| Phase                   | 3                           |
| Frequency               | 60                          |
| Voltage                 | 230/460                     |
| Frame Size              | 364/5TSC                    |
| Enclosure               | ODP                         |
| Degree of Protection    | IP23                        |
| Service Factor          | 1.15                        |
| Poles                   | 2                           |
| Full Load Speed         | 3567                        |
| Insulation Class        | F                           |
| Temp Rise               | 80°C                        |
| NEMA Code Letter        | F                           |
| Duty Cycle              | S1 / Continuous             |
| Slip                    | 0.93%                       |
| NEMA Design             | B                           |
| Moment of Inertia       | 6.172 lb.ft.^2              |
| Locked Rotor Time (Hot) | 12 seconds                  |
| Sound Pressure Level    | 83 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                      |

| EFFICIENCY/POWER FACTOR |        |       |
|-------------------------|--------|-------|
| LOAD                    | EFF    | P. F. |
| 100%                    | 93.6 % | 0.88  |
| 75%                     | 94.2 % | 0.87  |
| 50%                     | 93.1 % | 0.82  |

| TORQUE       |       |       |
|--------------|-------|-------|
| FULL LOAD    | LRT   | BDT   |
| 108.4 lb.ft. | 194 % | 259 % |

| AMPERAGE INFORMATION |        |        |
|----------------------|--------|--------|
|                      | 230V   | 460V   |
| Full Load Amps       | 166A   | 83A    |
| Locked Rotor Amps    | 951.2A | 475.6A |
| No Load Current      | 41.6A  | 20.8A  |
| Usable at 208V       | 91.78A |        |

| BEARING INFORMATION     |                  |
|-------------------------|------------------|
| DE Bearing              | 6314             |
| ODE Bearing             | 6212             |
| Grease Type             | Mobil Polyrex EM |
| DE Regreasing Interval  | 2400 Hours       |
| ODE Regreasing Interval | 3600 Hours       |
| Grease Quantity         | 26g/12g          |

| ADDITIONAL DATA    |               |
|--------------------|---------------|
| F2 Suitable        | Yes           |
| Shaft Material     | AISI 1045     |
| Connection Diagram | 12 Lead Delta |
| Approximate Weight | 724 lbs.      |

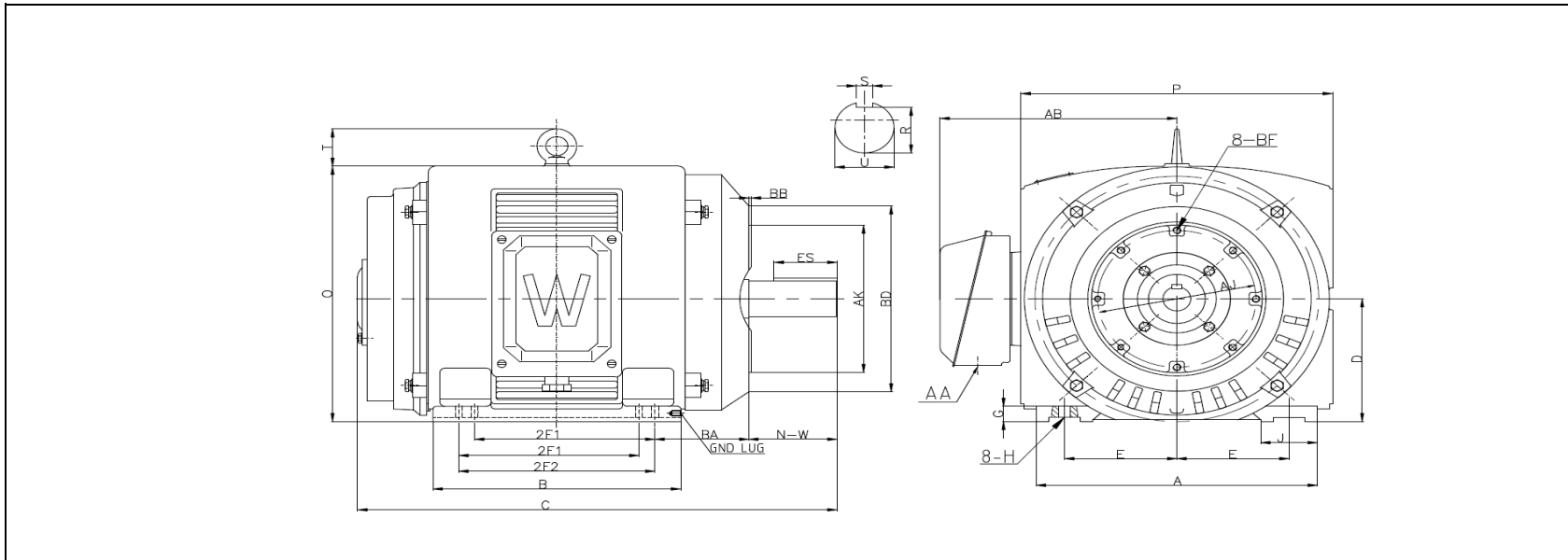
# MOTOR DRAWING

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## DIMENSION - INCHES

| MOUNTING |       |       |      |      | A    | B     | C    | D | G   | P     | O    | T   | AB   |
|----------|-------|-------|------|------|------|-------|------|---|-----|-------|------|-----|------|
| E        | 2F1   | 2F2   | H    | BA   |      |       |      |   |     |       |      |     |      |
| 7        | 11.25 | 12.25 | 0.66 | 5.88 | 17.6 | 15.51 | 28.8 | 9 | 1.1 | 19.48 | 18.5 | 2.7 | 14.8 |

| SHAFT & KEY |      |       |      |       |
|-------------|------|-------|------|-------|
| S           | ES   | R     | N-W  | U     |
| 0.5         | 2.03 | 1.591 | 3.75 | 1.875 |

| T-BOX | GND LUG  |
|-------|----------|
| AA    | M10*P1.5 |
| 3     |          |

| FLANGE |    |    |              |      |
|--------|----|----|--------------|------|
| AK     | BD | AJ | BF           | BB   |
| 12.5   | 14 | 11 | 8*5/8-11 UNC | 0.25 |

# PERFORMANCE CURVES

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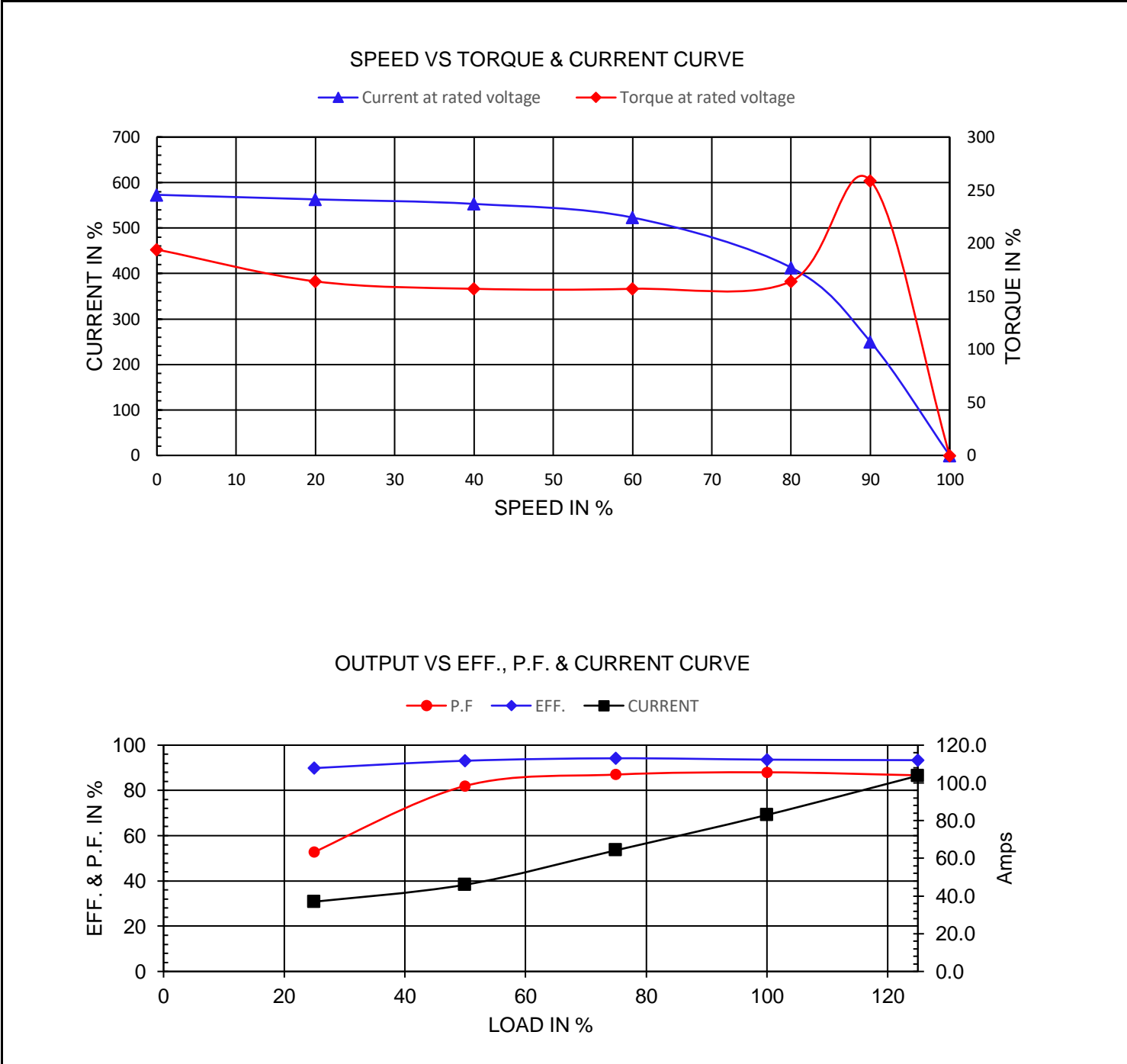
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|                       |       |                    |            |      |                  |
|-----------------------|-------|--------------------|------------|------|------------------|
| Motor Type            | ODP   |                    | FL Speed   | 3567 |                  |
| Output Rating (HP)    | 75    |                    | LRT (%FLT) | 194  | 460 volt FLA 83  |
| Full Load Torque      | 108.4 | lb.ft              | BDT (%FLT) | 259  | 230 volt FLA 166 |
| Rotor Wk <sup>2</sup> | 0.936 | lb-ft <sup>2</sup> |            |      |                  |



# NAMEPLATE / WIRING

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Premium Efficiency Motor: **ODP75-36-364TSC**

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## SAMPLE NAMEPLATE DATA

|                                    |         |  |         |                 |              |   |   |   |        |  |  |
|------------------------------------|---------|--|---------|-----------------|--------------|---|---|---|--------|--|--|
|                                    |         | <b>OPEN DRIP PROOF<br/>3 PHASE MOTOR</b> |         |                 |              |   |   |   | CC306B |  |  |
|                                    |         |  |         |                 |              |   |   |   |        |  |  |
| Model :                            |         | Encl : ODP                               |         | SN :            |              | 7 8 9<br>6 4 5<br>12 10 11<br>1 2 3<br>L1 L2 L3 |   |   |        |  |  |
| HP :                               | Poles : | FR:                                      | Ins : F | IP23            | Max Amb 40°C | Duty:Cont                                       | 7 8 9<br>4 5 6<br>12 10 11<br>1 2 3<br>L1 L2 L3 |   |        |  |  |
| Hz : 60                            |         | CODE :                                   |         | Hz : 50         |              | Design : B                                      |   | 7 8 9<br>4 5 6<br>12 10 11<br>1 2 3<br>L1 L2 L3 |        |  |  |
| Volts : 230/460                    |         | P.F. :                                   |         | Volts : 190/380 |              | DE BRG :  |   | 7 8 9<br>4 5 6<br>12 10 11<br>1 2 3<br>L1 L2 L3 |        |  |  |
| Amps :                             |         | Eff : %                                  |         | Amps :          |              | ODE BRG :                                       |   | 7 8 9<br>4 5 6<br>12 10 11<br>1 2 3<br>L1 L2 L3 |        |  |  |
| RPM :                              |         | S.F. : 1.15                              |         | RPM :           |              | WT : LBS  |   | 7 8 9<br>4 5 6<br>12 10 11<br>1 2 3<br>L1 L2 L3 |        |  |  |
|                                    |         |  |         | S.F. : 1.0      |              | Date :  |   | 7 8 9<br>4 5 6<br>12 10 11<br>1 2 3<br>L1 L2 L3 |        |  |  |
| ○ WorldWide Electric Corporation ○ |         |  |         |                 |              |   |   |   |        |  |  |

|                               |                   |                          |                      |                |  |  |  |  |  |
|-------------------------------|-------------------|--------------------------|----------------------|----------------|--|--|--|--|--|
| <b>Model:</b> ODP75-36-364TSC |                   | <b>Encl:</b> ODP         |                      |                |  |  |  |  |  |
| <b>HP:</b> 75                 | <b>Poles:</b> 2   | <b>Frame</b> 364/5TSC    | <b>Ins Cl:</b> F     | <b>IP</b> IP23 |  |  |  |  |  |
| <b>Hz:</b> 60                 | <b>Code:</b> F    | <b>Hz:</b> 50            | <b>Design:</b> B     |                |  |  |  |  |  |
| <b>Volts:</b> 230/460         | <b>P.F.:</b> 0.88 | <b>Volts:</b> 190/380    | <b>DE Brg:</b> 6314  |                |  |  |  |  |  |
| <b>Amps:</b> 166/83           | <b>Eff:</b> 93.6% | <b>Amps:</b> 202.6/101.3 | <b>ODE Brg:</b> 6212 |                |  |  |  |  |  |
| <b>RPM:</b> 3567              | <b>S.F.:</b> 1.15 | <b>RPM:</b> 2956         | <b>WT:</b> 724 lbs.  |                |  |  |  |  |  |
|                               |                   | <b>S.F.:</b> 1.0         |                      |                |  |  |  |  |  |