

# DATA SHEET

Premium Efficiency Motor: **LAM60-18-364TCRD**

**60 Hz**

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



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| MOTOR INFORMATION       |                                       |
|-------------------------|---------------------------------------|
| HP                      | 60                                    |
| RPM                     | 1800                                  |
| Phase                   | 3                                     |
| Frequency               | 60 Hz                                 |
| Voltage                 | 230/460                               |
| Frame Size              | 364/5TC                               |
| 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       | 10.644 lb.ft.^2                       |
| Locked Rotor Time (Hot) | 12 seconds                            |
| Sound Pressure Level    | 95 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 T3B |
| Inverter Rating         | 10:1 CT / 20:1 VT                     |
| Standard                | NEMA MG-1                             |
| Approvals               | UL, CE, IEEE45, ABS                   |

| EFFICIENCY/POWER FACTOR |        |       |
|-------------------------|--------|-------|
| LOAD                    | EFF    | P. F. |
| 100%                    | 95.0 % | 0.86  |
| 75%                     | 95.8 % | 0.86  |
| 50%                     | 95.4 % | 0.8   |

| TORQUE     |       |       |
|------------|-------|-------|
| FULL LOAD  | LRT   | BDT   |
| 178 lb.ft. | 256 % | 275 % |

| AMPERAGE INFORMATION |         |        |
|----------------------|---------|--------|
|                      | 230V    | 460V   |
| Full Load Amps       | 138.8A  | 69.4   |
| Locked Rotor Amps    | 859.8A  | 429.9A |
| No Load Current      | 37A     | 18.5A  |
| Usable at 208V       | 159.7 A |        |

| BEARING INFORMATION     |                  |
|-------------------------|------------------|
| DE Bearing              | 6316 C3          |
| ODE Bearing             | 6313 C3          |
| 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 | 842.1 lbs.    |

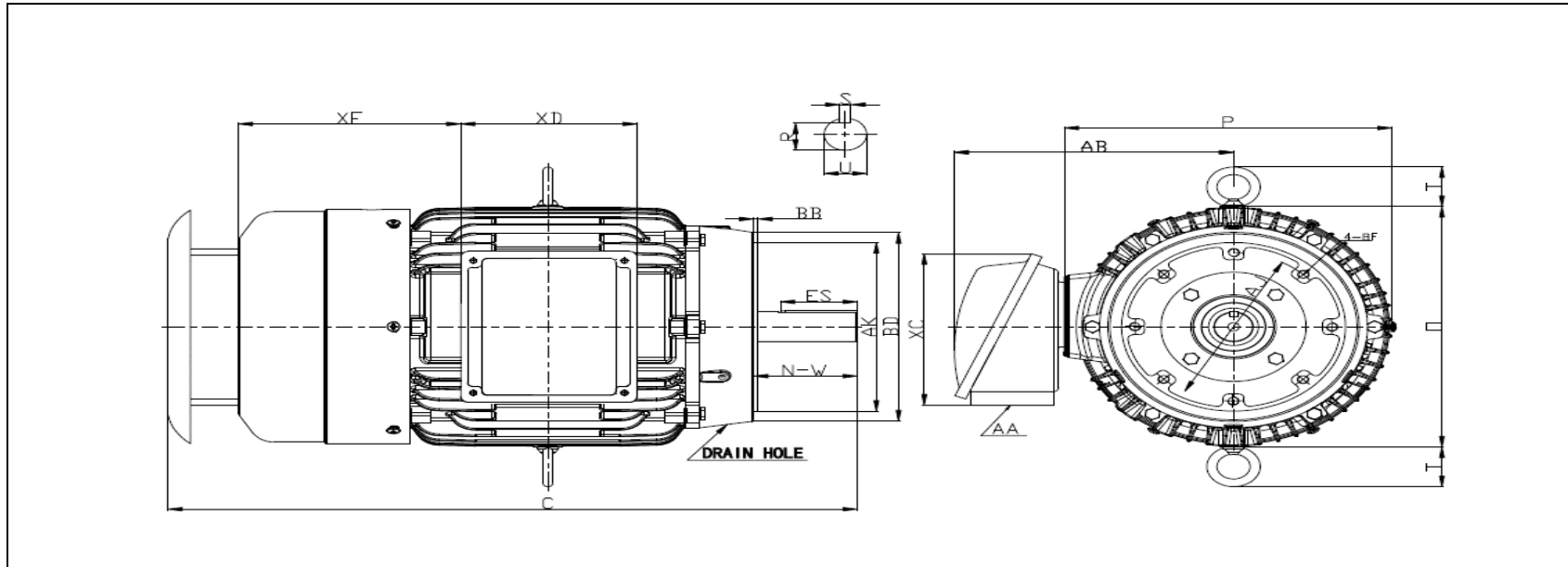
# MOTOR DRAWING

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## DIMENSION - INCHES

| FLANGE MOUNTING |    |    |          |      | C    | P     | O  | T    | AB    |
|-----------------|----|----|----------|------|------|-------|----|------|-------|
| AK              | BD | AJ | BF       | BB   |      |       |    |      |       |
| 12.5            | 14 | 11 | 8*5/8-11 | 0.25 | 38.5 | 18.41 | 20 | 2.81 | 16.53 |

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

| TERMINAL BOX |       |      |      |
|--------------|-------|------|------|
| AA           | XC    | XD   | XE   |
| 3 NPT        | 11.27 | 9.17 | 12.4 |

# PERFORMANCE CURVES

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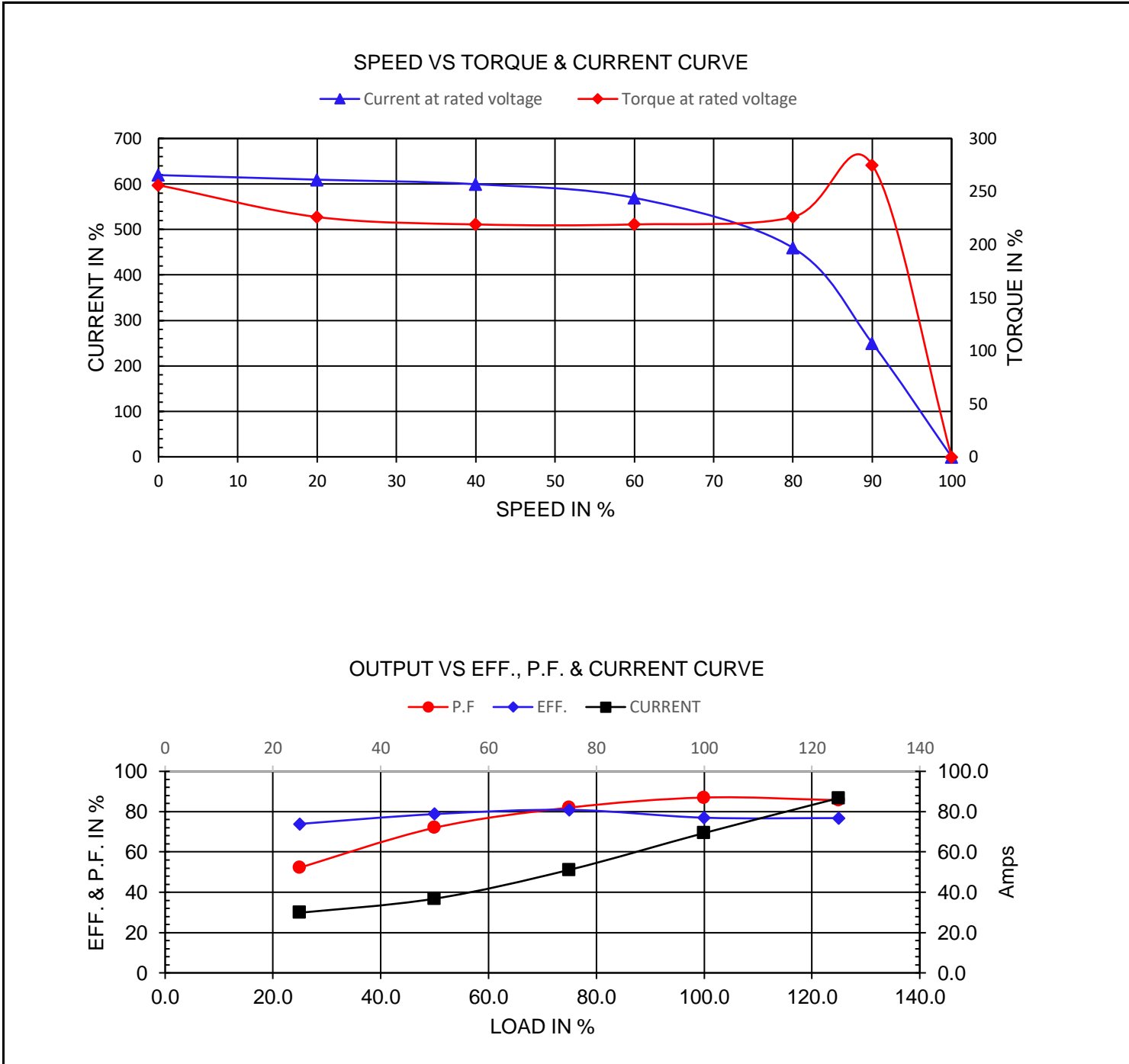


Premium Efficiency Motor:

**LAM60-18-364TCRD**

|                                 |           |
|---------------------------------|-----------|
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|                    |        |         |            |      |              |        |
|--------------------|--------|---------|------------|------|--------------|--------|
| Motor Type         | LAM    |         | FL Speed   | 1785 |              |        |
| Output Rating (HP) | 60     |         | LRT (%FLT) | 256  | 460 volt FLA | 69.4   |
| Full Load Torque   | 178    | lb.ft   | BDT (%FLT) | 275  | 230 volt FLA | 138.8A |
| Rotor Wk^2         | 10.644 | lb-ft^2 |            |      |              |        |



# NAMEPLATE / WIRING

Premium Efficiency Motor: **LAM60-18-364TCRD**

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## SAMPLE NAMEPLATE DATA

|         |         |  |        |            |      |              |  |  |  |   |   |   |   |   |   |    |    |    |   |   |   |    |    |    |       |  |  |
|---------|---------|--|--------|------------|------|--------------|--|--|--|---|---|---|---|---|---|----|----|----|---|---|---|----|----|----|-------|--|--|
|         |         | <b>THREE PHASE SEVERE DUTY MOTOR I EEE45</b>       |        |            |      |              |  |  |  |   |   |   |   |   |   |    |    |    |   |   |   |    |    |    |       |  |  |
| Model : |         | Encl :   | Type : | SN :       |      |              | <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">7</td> <td style="text-align: center;">8</td> <td style="text-align: center;">9</td> </tr> <tr> <td style="text-align: center;">6</td> <td style="text-align: center;">4</td> <td style="text-align: center;">5</td> </tr> <tr> <td style="text-align: center;">12</td> <td style="text-align: center;">10</td> <td style="text-align: center;">11</td> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">3</td> </tr> <tr> <td style="text-align: center;">L1</td> <td style="text-align: center;">L2</td> <td style="text-align: center;">L3</td> </tr> <tr> <td colspan="3" style="text-align: center;">230 V</td> </tr> </table> |  |  | 7 | 8 | 9 | 6 | 4 | 5 | 12 | 10 | 11 | 1 | 2 | 3 | L1 | L2 | L3 | 230 V |  |  |
| 7       | 8       | 9  |        |            |      |              |  |  |  |   |   |   |   |   |   |    |    |    |   |   |   |    |    |    |       |  |  |
| 6       | 4       | 5  |        |            |      |              |  |  |  |   |   |   |   |   |   |    |    |    |   |   |   |    |    |    |       |  |  |
| 12      | 10      | 11   |        |            |      |              |  |  |  |   |   |   |   |   |   |    |    |    |   |   |   |    |    |    |       |  |  |
| 1       | 2       | 3  |        |            |      |              |  |  |  |   |   |   |   |   |   |    |    |    |   |   |   |    |    |    |       |  |  |
| L1      | L2      | L3   |        |            |      |              |  |  |  |   |   |   |   |   |   |    |    |    |   |   |   |    |    |    |       |  |  |
| 230 V   |         |  |        |            |      |              |  |  |  |   |   |   |   |   |   |    |    |    |   |   |   |    |    |    |       |  |  |
| HP :    | Poles : | FR:  | Ins:   | Duty: Cont | IP : | Max Amb 40°C |  |  |  |   |   |   |   |   |   |    |    |    |   |   |   |    |    |    |       |  |  |
| Hz :    |         | CODE :   |        | Hz :       | HP : | Design :     |  |  |  |   |   |   |   |   |   |    |    |    |   |   |   |    |    |    |       |  |  |
| Volts : |         | P.F :  |        | Volts :    |      | DE BRG :     |  |  |  |   |   |   |   |   |   |    |    |    |   |   |   |    |    |    |       |  |  |
| Amps :  |         | Eff :  |        | Amps :     |      | ODE BRG :    |  |  |  |   |   |   |   |   |   |    |    |    |   |   |   |    |    |    |       |  |  |
| RPM :   |         | S.F :  |        | RPM :      |      | WT :         |  |  |  |   |   |   |   |   |   |    |    |    |   |   |   |    |    |    |       |  |  |
|         |         |  |        | S.F :      |      | Date :       |  |  |  |   |   |   |   |   |   |    |    |    |   |   |   |    |    |    |       |  |  |
| CC306B  |         | <b>LOUIS ALLIS</b><br>A WORLDWIDE ELECTRIC COMPANY |        |            |      |              | UL certified Class I, Division II, Groups A,B,C,D T3B  |  |  |   |   |   |   |   |   |    |    |    |   |   |   |    |    |    |       |  |  |

|               |                  |              |      |               |            |             |            |                |    |
|---------------|------------------|--------------|------|---------------|------------|-------------|------------|----------------|----|
| <b>Model:</b> | LAM60-18-364TCRD | <b>Encl:</b> | TEFC | <b>Type:</b>  | AEH3       |             |            |                |    |
| <b>HP:</b>    | 60               | <b>Poles</b> | 4    | <b>FR:</b>    | 364/5TC    | <b>Ins:</b> | F          | <b>IP:</b>     | 55 |
| <b>Hz:</b>    | 60               | <b>CODE:</b> | G    | <b>Hz</b>     | 50         | <b>HP:</b>  | 60         | <b>Design:</b> | B  |
| <b>Volts:</b> | 230/460          | <b>P.F:</b>  | 0.86 | <b>Volts:</b> | 190/380    |             |            |                |    |
| <b>Amps:</b>  | 138.8/69.4       | <b>Eff:</b>  | 0.95 | <b>Amps</b>   | 167.6/83.8 |             |            |                |    |
| <b>RPM:</b>   | 1785             | <b>S.F:</b>  | 1.25 | <b>RPM</b>    | 1480       |             |            |                |    |
|               |                  |              |      | <b>S.F:</b>   | 1.00       |             |            |                |    |
|               |                  |              |      |               |            | <b>WT:</b>  | 842.1 lbs. |                |    |