

# PRODUCT INFORMATION PACKET

Model No: 215TTFND6526

Catalog No: E619A

10 HP Severe Duty Motor, 3 phase, 1800 RPM, 460 V, 215T Frame, TEFC  
Severe Duty Motors



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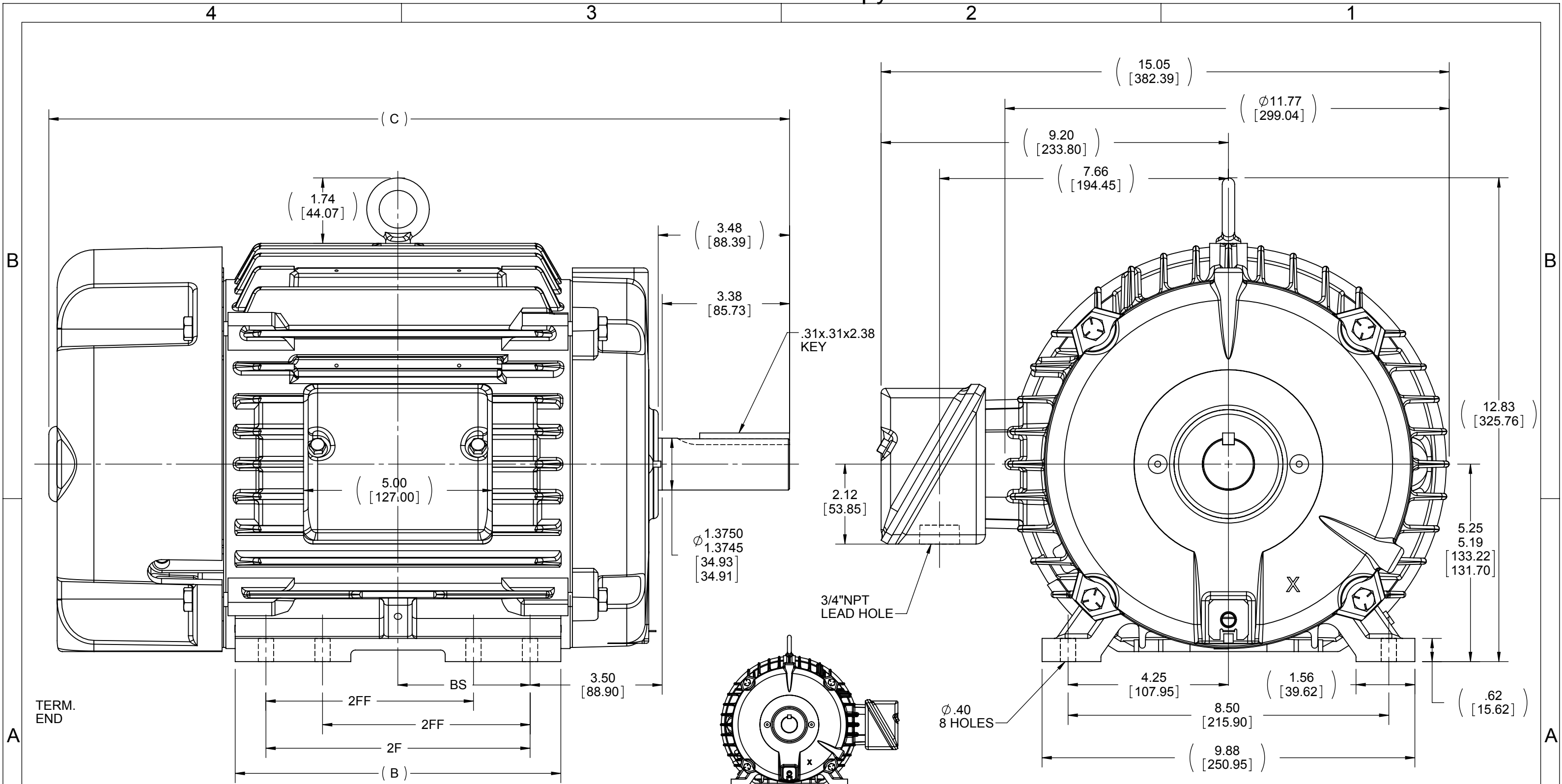
### Nameplate Specifications

|                        |                   |                            |                                    |
|------------------------|-------------------|----------------------------|------------------------------------|
| Output HP              | <b>10 Hp</b>      | Output KW                  | <b>7.5 kW</b>                      |
| Frequency              | <b>60 Hz</b>      | Voltage                    | <b>460 V</b>                       |
| Current                | <b>13.3 A</b>     | Speed                      | <b>1765 rpm</b>                    |
| Service Factor         | <b>1.15</b>       | Phase                      | <b>3</b>                           |
| Efficiency             | <b>91.7 %</b>     | Power Factor               | <b>76.9</b>                        |
| Duty                   | <b>Continuous</b> | Insulation Class           | <b>F</b>                           |
| Design Code            | <b>B</b>          | KVA Code                   | <b>H</b>                           |
| Frame                  | <b>215T</b>       | Enclosure                  | <b>Totally Enclosed Fan Cooled</b> |
| Thermal Protection     | <b>No</b>         | Ambient Temperature        | <b>40 °C</b>                       |
| Drive End Bearing Size | <b>6307</b>       | Opp Drive End Bearing Size | <b>6208</b>                        |
| UL                     | <b>Recognized</b> | CSA                        | <b>Y</b>                           |
| CE                     | <b>Y</b>          | IP Code                    | <b>54</b>                          |
| Number of Speeds       | <b>1</b>          |                            |                                    |

### Technical Specifications

|                       |                                     |                       |                         |
|-----------------------|-------------------------------------|-----------------------|-------------------------|
| Electrical Type       | <b>Squirrel Cage Inverter Rated</b> | Starting Method       | <b>Line Or Inverter</b> |
| Poles                 | <b>4</b>                            | Rotation              | <b>Reversible</b>       |
| Resistance Main       | <b>.941 Ohms</b>                    | Mounting              | <b>Rigid Base</b>       |
| Motor Orientation     | <b>Horizontal</b>                   | Drive End Bearing     | <b>Ball</b>             |
| Opp Drive End Bearing | <b>Ball</b>                         | Frame Material        | <b>Cast Iron</b>        |
| Shaft Type            | <b>T</b>                            | Overall Length        | <b>22.63 in</b>         |
| Frame Length          | <b>12.12 in</b>                     | Shaft Diameter        | <b>1.375 in</b>         |
| Shaft Extension       | <b>3.48 in</b>                      | Assembly/Box Mounting | <b>F1/F2 CAPABLE</b>    |
| Outline Drawing       | <b>037657-1212</b>                  | Connection Drawing    | <b>EE7300</b>           |

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- NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
  2. CONDUIT BOX CAN BE MOUNTED IN OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
  3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

|      |         |       |       |    |     |     |
|------|---------|-------|-------|----|-----|-----|
| 1212 | 213/215 | 22.63 | 11.76 | 10 | 7   | 5   |
| 912  | 213/215 | 19.63 | 8.63  | 7  | 5.5 | 3.5 |
| DASH | FRAME   | C     | B     | 2F | 2FF | BS  |

|   |                   |                  |
|---|-------------------|------------------|
| DRAWING REVISION<br>E   | REVISION BY<br>UD | DATE<br>02/13/14 |
| ECO<br>ECO-0044824  | APPROVED BY<br>SR | DATE<br>02/13/14 |
| ECO DESCRIPTION<br>ADDED F2 VIEW  |                   |                  |
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TOLERANCES UNLESS OTHERWISE SPECIFIED:

| DEC.  | INCH    | mm        | ANGLE |
|-------|---------|-----------|-------|
| .X    | ±0.1    | [±2.5]    | ±0.5° |
| .XX   | ±0.01   | [±0.25]   |       |
| .XXX  | ±0.005  | [±0.127]  |       |
| .XXXX | ±0.0005 | [±0.0127] |       |

REMOVE BURRS & BREAK SHARP  
 EDGES: .003/.015 [0.076/.381]  
 CORNER FILLETS: .02 [0.51]  
 MACHINED SURFACES: 125 INCH 3.2 mm  
 mm SHOWN IN [BRACKETS]

|                |                        |
|----------------|------------------------|
| DRAWN BY<br>AK | DATE<br>09/09/2009     |
| APPROVED BY    | DATE                   |
| PROCESS/FINISH | THIRD ANGLE PROJECTION |

|   |         |
|---|---------|
| <b>REGAL</b> ™ Regal Beloit America, Inc. |         |
| DESCRIPTION                               | OUTLINE |
| MATERIAL                                  | SIZE B  |
| DRAWING NUMBER                            | 037657  |
| SHEET                                     | 1 OF 1  |

**THREE PHASE - SINGLE VOLTAGE  
MOTOR - CONDUIT BOX @ 'A'**

**TO REVERSE ROTATION:  
INTERCHANGE ANY TWO  
LINE LEAD CONNECTIONS.**

**TERMINAL BLOCK WHEN SPECIFIED**



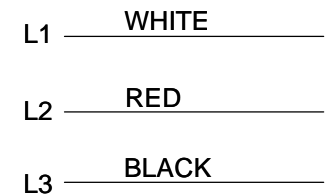
**VIEW OF TERMINAL END**

**IF MOTOR HAS  
6 LEADS**



**A-9806 DECAL**

**OPTIONAL CORD  
CONNECTION**



|   |                           |                           |
|---|---------------------------|---------------------------|
| DRAWING REVISION<br><b>AB</b>   | REVISION BY<br><b>JJB</b> | DATE<br><b>06-27-2017</b> |
| ECO<br><b>ECO-0125361</b>   | APPROVED BY<br><b>TB</b>  | DATE<br><b>06-27-2017</b> |
| ECO DESCRIPTION<br><b>UPDATED TO CURRENT STANDARDS</b>  |                           |                           |
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|                           |
|---------------------------|
| DRAWN BY<br><b>DA</b>     |
| DATE<br><b>03-26-1993</b> |
| APPROVED BY<br><b>TB</b>  |
| DATE<br><b>03-26-1993</b> |
| REFERENCE                 |
| THIRD ANGLE<br>PROJECTION |

|   |                                 |
|---|---------------------------------|
| <b>Regal Beloit America, Inc.</b>   |                                 |
| DESCRIPTION<br><b>CONNECTION DIAGRAM<br/>EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR</b> |                                 |
| MATERIAL  | PROCESS/FINISH                  |
| SIZE<br><b>A</b>  | DRAWING NUMBER<br><b>EE7300</b> |
| SHEET<br><b>1 OF 1</b>  |                                 |

**CERTIFICATION DATA SHEET**

**Model#:** 215TTFND6526 AA  
**CONN. DIAGRAM:** EE7300  
**OUTLINE:** 037657-1212

**WINDING#:** K2154512 NONE 2  
**ASSEMBLY:** F1/F2 CAPABLE

**TYPICAL MOTOR PERFORMANCE DATA**

| HP | KW  | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|----|-----|-----------|----------|-------|-----------|----------|--------|
| 10 | 7.5 | 1800      | 1765     | 215T  | TEFC      | H        | B      |

| PH | Hz | VOLTS | FL AMPS | START TYPE       | DUTY       | INSL | S.F  | AMB°C | ELEVATION |
|----|----|-------|---------|------------------|------------|------|------|-------|-----------|
| 3  | 60 | 460   | 13.3    | LINE OR INVERTER | CONTINUOUS | F3   | 1.15 | 40    | 3300      |

| FULL LOAD EFF: 91.7 | 3/4 LOAD EFF: 90.9 | 1/2 LOAD EFF: 90.6 | GTD. EFF | ELEC. TYPE        | NO LOAD AMPS |
|---------------------|--------------------|--------------------|----------|-------------------|--------------|
| FULL LOAD PF: 76.9  | 3/4 LOAD PF: 70.1  | 1/2 LOAD PF: 57.2  | 90.2     | SQ CAGE INV RATED | 7.1          |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE  | B.D. TORQUE  | F.L. RISE°C |
|-------------|-------------------|--------------|--------------|-------------|
| 29.8 LB-FT  | 81                | 71 LB-FT 238 | 89 LB-FT 299 | 55          |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2   | SAFE STALL TIME | STARTS /HOUR | APPROX. MOTOR WGT |
|------------------------|-------------|------------|-------------|-----------------|--------------|-------------------|
| 62 dBA                 | 72 dBA      | 1 LB-FT^2  | 277 LB-FT^2 | 25 SEC.         | 2            | 150 LBS.          |

**\*\*\* SUPPLEMENTAL INFORMATION \*\*\***

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | ORIENTATION | SEVERE DUTY         | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT        |
|-----------------|------------------|------------|-------------|---------------------|--------------------|------------|---------|--------------|
| STANDARD        | STANDARD         | RIGID      | HORIZONTAL  | PREMIUM SEVERE DUTY | DIVISION 2 T2B     | FALSE      | NONE    | BLUE (EPOXY) |

| BEARINGS |      | GREASE     | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL           | FRAME MATERIAL |
|----------|------|------------|------------|------------|-------------|--------------------------|----------------|
| DE       | OPE  |            |            |            |             |                          |                |
| BALL     | BALL | POLYREX EM | T          | NONE       | NONE        | 1144 STRESSPROOF (C-223) | CAST IRON      |
| 6307     | 6208 |            |            |            |             |                          |                |

| THERMO-PROTECTORS |            |          |          | THERMISTORS | CONTROL | SPACE /n HEATERS |
|-------------------|------------|----------|----------|-------------|---------|------------------|
| THERMOSTATS       | PROTECTORS | WDG RTDs | BRG RTDs |             |         |                  |
| NONE              | NOT        | NONE     | NONE     | NONE        | FALSE   | NONE VOLTS       |

If Inverter equals NONE, contact factory for further information

\*  
N  
O  
T  
E  
S  
\*

|   |
|---|
| INVERTER TORQUE: CONSTANT 20:1<br>INV. HP SPEED RANGE: 1.5 X BASE SPEED     |
| ENCODER: NONE<br>NONE NONE<br>NONE NONE PPR                                 |
| BRAKE: NONE NONE<br>NONE P/N NONE<br>NONE NONE<br>NONE FT-LB NONE V NONE Hz |

DATE: 06/22/2017 07:59:51 AM  
 FORM 3531 REV.3 02/07/99  
 \*\* Subject to change without notice.

Data Sheet

Date: 16-06-2017  
 Customer: \_\_\_\_\_  
 Attention: \_\_\_\_\_  
 Submitted by: FAREEDA DUDEKULA



215TTFND6526

Submittal

Data @ 460 V

Motor Load Data

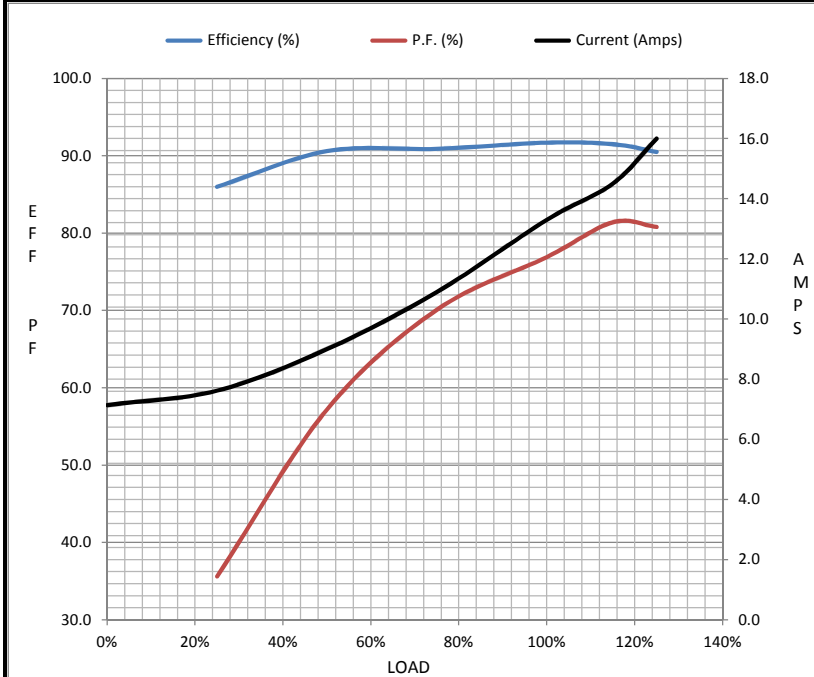
| Load           | 0%   | 25%  | 50%  | 75%  | 100% | 115%  | 125% | LR   |
|----------------|------|------|------|------|------|-------|------|------|
| Current (Amps) | 7.1  | 7.6  | 9.0  | 10.9 | 13.3 | 14.5  | 16.0 | 81.0 |
| Torque (ft-lb) | 0.00 | 7.3  | 14.7 | 22.0 | 29.8 | 34.5  | 37.4 | 71.0 |
| RPM            | 1800 | 1791 | 1780 | 1771 | 1765 | 1,755 | 1755 | 0    |
| Efficiency (%) |      | 86.0 | 90.6 | 90.9 | 91.7 | 91.5  | 90.5 |      |
| P.F. (%)       | 4.7  | 35.6 | 57.2 | 70.1 | 76.9 | 81.4  | 80.8 | 42.0 |

Motor Speed Data

|                | LR   | Pull-Up | BD   | Rated | Idle |
|----------------|------|---------|------|-------|------|
| Speed (RPM)    | 0    | 900     | 1575 | 1765  | 1800 |
| Current (Amps) | 81.0 | 72.0    | 49.0 | 13.3  | 7.1  |
| Torque (ft-lb) | 71.0 | 59.0    | 89.0 | 29.8  | 0.00 |

Information Block

|                             |                         |        |        |         |
|-----------------------------|-------------------------|--------|--------|---------|
| HP                          | 10.0                    |        |        |         |
| Sync. RPM                   | 1800                    |        |        |         |
| Frame                       | 215                     |        |        |         |
| Enclosure                   | TEFC                    |        |        |         |
| Construction                | TFN                     |        |        |         |
| Voltage                     | 460 V                   |        |        |         |
| Frequency                   | 60 Hz                   |        |        |         |
| Design                      | B                       |        |        |         |
| LR Code letter              | H                       |        |        |         |
| Service Factor              | 1.15                    |        |        |         |
| Temp Rise @ FL              | 55 ° C                  |        |        |         |
| Duty                        | CONT                    |        |        |         |
| Ambient                     | 40 ° C                  |        |        |         |
| Elevation                   | 1,000 feet              |        |        |         |
| Rotor/Shaft wk <sup>2</sup> | 1.00 Lb-Ft <sup>2</sup> |        |        |         |
| Ref Wdg                     | K2154512 NONE           |        |        |         |
| Sound Pressure @ 1M         | 62 dBA                  |        |        |         |
| VFD Rating                  | CONSTANT 20:1           |        |        |         |
| Outline Dwg                 | 037657-1212             |        |        |         |
| Conn. Diag                  | EE7300                  |        |        |         |
| Additional Specifications:  |                         |        |        |         |
| 0                           |                         |        |        |         |
| 365THFS8036                 |                         |        |        |         |
| EQUIV CKT (OHMS / PHASE)    |                         |        |        |         |
| R1                          | R2                      | X1     | X2     | Xm      |
| 0.6120                      | 0.4570                  | 1.8550 | 2.1560 | 35.8880 |



Speed - Torque Curve

