

# PRODUCT INFORMATION PACKET

Model No: 444TTDN16003

Catalog No: M757

200 HP Vertical Solid Shaft P-Base Motor, 3 phase, 3600 RPM, 460 V, 444HPV Frame, ODP  
Vertical Pump Motors



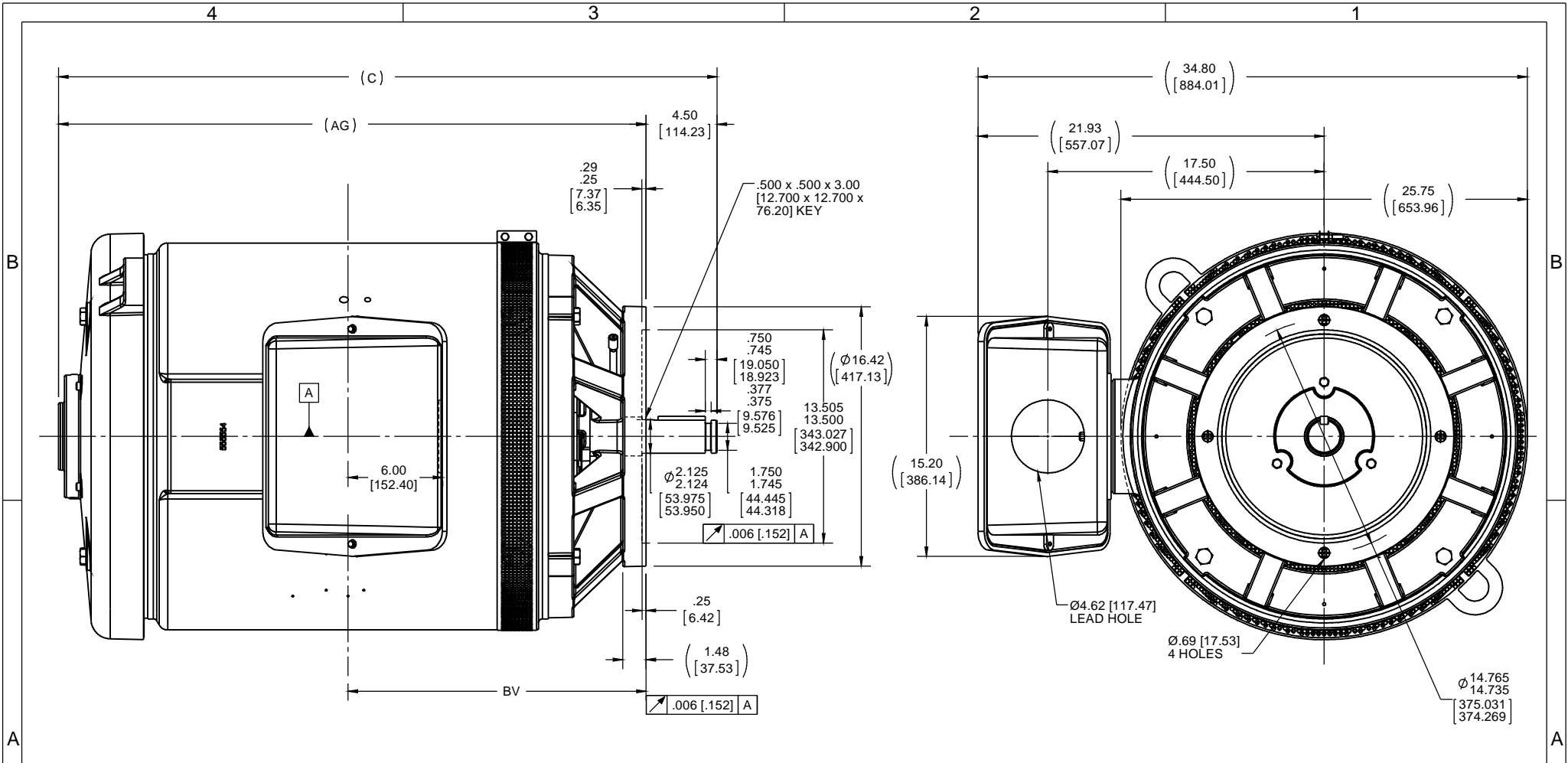
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### Nameplate Specifications

|                        |                   |                            |                   |
|------------------------|-------------------|----------------------------|-------------------|
| Output HP              | <b>200 Hp</b>     | Output KW                  | <b>149.0 kW</b>   |
| Frequency              | <b>60 Hz</b>      | Voltage                    | <b>460 V</b>      |
| Current                | <b>220.0 A</b>    | Speed                      | <b>3570 rpm</b>   |
| Service Factor         | <b>1.15</b>       | Phase                      | <b>3</b>          |
| Efficiency             | <b>95 %</b>       | Power Factor               | <b>89</b>         |
| Duty                   | <b>Continuous</b> | Insulation Class           | <b>F</b>          |
| Design Code            | <b>B</b>          | KVA Code                   | <b>G</b>          |
| Frame                  | <b>444HPV</b>     | Enclosure                  | <b>Drip Proof</b> |
| Thermal Protection     | <b>No</b>         | Ambient Temperature        | <b>40 °C</b>      |
| Drive End Bearing Size | <b>6313</b>       | Opp Drive End Bearing Size | <b>6313</b>       |
| UL                     | <b>Recognized</b> | CSA                        | <b>Y</b>          |
| CE                     | <b>Y</b>          | IP Code                    | <b>12</b>         |
| Number of Speeds       | <b>1</b>          |                            |                   |

### Technical Specifications

|                       |                                    |                       |                        |
|-----------------------|------------------------------------|-----------------------|------------------------|
| Electrical Type       | <b>Squirrel Cage Induction Run</b> | Starting Method       | <b>Across The Line</b> |
| Poles                 | <b>2</b>                           | Rotation              | <b>Reversible</b>      |
| Resistance Main       | <b>.025 Ohms</b>                   | Mounting              | <b>Round</b>           |
| Motor Orientation     | <b>Shaft Down</b>                  | Drive End Bearing     | <b>Ball</b>            |
| Opp Drive End Bearing | <b>Double Angular Contact</b>      | Frame Material        | <b>Cast Iron</b>       |
| Shaft Type            | <b>HP</b>                          | Overall Length        | <b>41.72 in</b>        |
| Frame Length          | <b>25.38 in</b>                    | Shaft Diameter        | <b>2.125 in</b>        |
| Shaft Extension       | <b>4.5 in</b>                      | Assembly/Box Mounting | <b>F1/F2 Capable</b>   |
| Outline Drawing       | <b>B-SS555833-2538</b>             | Connection Drawing    | <b>A-EE7300U</b>       |



- NOTES:  
 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS  
 2. NAMEPLATES TO BE READ FROM SHAFT EXTENSION END OF MOTOR

| DASH | FRAME   | C                  | AG                | BV                |
|------|---------|--------------------|-------------------|-------------------|
| 2538 | 444/5PV | 41.72<br>[1059.62] | 37.22<br>[945.39] | 18.88<br>[479.55] |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|
| DRAWING REVISION<br>C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | REVISION BY<br>AJW | DATE<br>07-01-2014 |
| ECO<br>ECO-0054258                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | APPROVED BY<br>DJK | DATE<br>07-01-2014 |
| ECO DESCRIPTION<br>UPDATED TO CURRENT STANDARDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |                    |
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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 [076/381] |         |           |       |
| CORNER FILLETS: .02 [51]                              |         |           |       |
| MACHINED SURFACES: 125/3.2                            |         |           |       |
| mm SHOWN IN [BRACKETS]                                |         |           |       |

|                        |
|------------------------|
| DRAWN BY<br>TJW        |
| DATE<br>07-16-2013     |
| APPROVED BY<br>DJK     |
| DATE<br>07-19-2013     |
| REFERENCE              |
| THIRD ANGLE PROJECTION |

|                                                             |                            |
|-------------------------------------------------------------|----------------------------|
| Regal Beloit America, Inc.                                  |                            |
| DESCRIPTION<br><b>OUTLINE</b><br>444/5PV FR. -DR.PR. -PBASE |                            |
| MATERIAL                                                    | PROCESS/FINISH             |
| SIZE<br>B                                                   | DRAWING NUMBER<br>SS555833 |
| SHEET<br>1 OF 1                                             |                            |

**IF MOTOR HAS 9 LEADS**

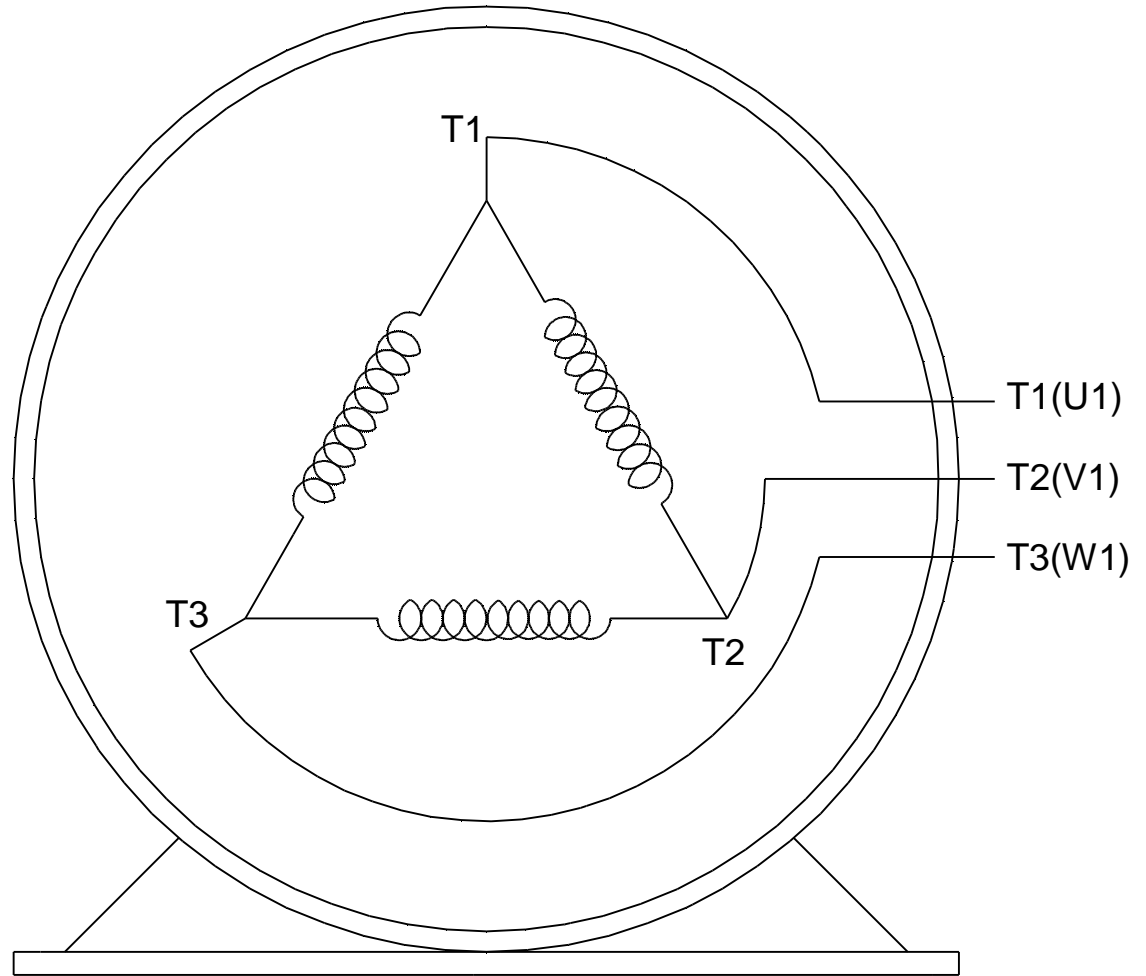


**IF MOTOR HAS 6 LEADS**



A-9806 DECAL IF CALLED FOR

**IF MOTOR HAS 12 LEADS**



**VIEW OF TERMINAL END**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |                                   |                                  |                        |           |              |    |      |        |         |     |       |         |  |      |        |          |  |       |         |           |  |                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------------|----------------------------------|------------------------|-----------|--------------|----|------|--------|---------|-----|-------|---------|--|------|--------|----------|--|-------|---------|-----------|--|---------------------------|
| DRAWING REVISION<br><b>L</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | REVISION BY<br><b>AJW</b> | DATE<br><b>05-04-2015</b> | TOLERANCES UNLESS OTHERWISE SPECIFIED:                                                                                                                                                                                                                                                                                                                                                                                                                   | DRAWN BY<br><b>DRS</b>    | <b>Regal Beloit America, Inc.</b> |                                  |                        |           |              |    |      |        |         |     |       |         |  |      |        |          |  |       |         |           |  |                           |
| ECO<br><b>ECO-0077067</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | APPROVED BY<br><b>EWH</b> | DATE<br><b>05-05-2015</b> | <table style="font-size: small; border-collapse: collapse;"> <tr> <td><u>DEC.</u></td> <td><u>INCH</u></td> <td><u>mm</u></td> <td><u>ANGLE</u></td> </tr> <tr> <td>.X</td> <td>±0.1</td> <td>[±2.5]</td> <td>±7' 30"</td> </tr> <tr> <td>.XX</td> <td>±0.02</td> <td>[±0.51]</td> <td></td> </tr> <tr> <td>.XXX</td> <td>±0.005</td> <td>[±0.127]</td> <td></td> </tr> <tr> <td>.XXXX</td> <td>±0.0005</td> <td>[±0.0127]</td> <td></td> </tr> </table> | <u>DEC.</u>               |                                   |                                  | <u>INCH</u>            | <u>mm</u> | <u>ANGLE</u> | .X | ±0.1 | [±2.5] | ±7' 30" | .XX | ±0.02 | [±0.51] |  | .XXX | ±0.005 | [±0.127] |  | .XXXX | ±0.0005 | [±0.0127] |  | DATE<br><b>09-27-1996</b> |
| <u>DEC.</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <u>INCH</u>               | <u>mm</u>                 | <u>ANGLE</u>                                                                                                                                                                                                                                                                                                                                                                                                                                             |                           |                                   |                                  |                        |           |              |    |      |        |         |     |       |         |  |      |        |          |  |       |         |           |  |                           |
| .X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ±0.1                      | [±2.5]                    | ±7' 30"                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |                                   |                                  |                        |           |              |    |      |        |         |     |       |         |  |      |        |          |  |       |         |           |  |                           |
| .XX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ±0.02                     | [±0.51]                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |                                   |                                  |                        |           |              |    |      |        |         |     |       |         |  |      |        |          |  |       |         |           |  |                           |
| .XXX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ±0.005                    | [±0.127]                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |                                   |                                  |                        |           |              |    |      |        |         |     |       |         |  |      |        |          |  |       |         |           |  |                           |
| .XXXX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ±0.0005                   | [±0.0127]                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           |                                   |                                  |                        |           |              |    |      |        |         |     |       |         |  |      |        |          |  |       |         |           |  |                           |
| ECO DESCRIPTION<br><b>UPDATED TO SOLIDWORKS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |                           | APPROVED BY<br><b>GK</b>                                                                                                                                                                                                                                                                                                                                                                                                                                 | DATE<br><b>09-30-1996</b> | MATERIAL                          | PROCESS/FINISH                   |                        |           |              |    |      |        |         |     |       |         |  |      |        |          |  |       |         |           |  |                           |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                           |                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                          | THIRD ANGLE PROJECTION    |                                   |                                  |                        |           |              |    |      |        |         |     |       |         |  |      |        |          |  |       |         |           |  |                           |

**CERTIFICATION DATA SHEET**

**Model#:** 444TTDN16003 AA **WINDING#:** T444268 NONE 1  
**CONN. DIAGRAM:** A-EE7300U **ASSEMBLY:** F1/F2 CAPABLE  
**OUTLINE:** B-SS555833-2538

**TYPICAL MOTOR PERFORMANCE DATA**

| HP  | KW  | SYNC. RPM | F.L. RPM | FRAME  | ENCLOSURE | KVA CODE | DESIGN |
|-----|-----|-----------|----------|--------|-----------|----------|--------|
| 200 | 149 | 3600      | 3570     | 444HPV | DP        | G        | B      |

| PH | Hz | VOLTS | FL AMPS | START TYPE      | DUTY       | INSL | S.F  | AMB°C | ELEVATION |
|----|----|-------|---------|-----------------|------------|------|------|-------|-----------|
| 3  | 60 | 460   | 220     | ACROSS THE LINE | CONTINUOUS | F1   | 1.15 | 40    | 3300      |

| FULL LOAD EFF: 95 | 3/4 LOAD EFF: 95 | 1/2 LOAD EFF: 94.5 | GTD. EFF | ELEC. TYPE      | NO LOAD AMPS |
|-------------------|------------------|--------------------|----------|-----------------|--------------|
| FULL LOAD PF: 89  | 3/4 LOAD PF: 86  | 1/2 LOAD PF: 80    | 94.5     | SQ CAGE IND RUN | 65           |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE   | B.D. TORQUE   | F.L. RISE°C |
|-------------|-------------------|---------------|---------------|-------------|
| 294 LB-FT   | 1425              | 330 LB-FT 112 | 825 LB-FT 281 | 55          |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2   | MAX. WK^2  | SAFE STALL TIME | STARTS /HOUR | APPROX. MOTOR WGT |
|------------------------|-------------|--------------|------------|-----------------|--------------|-------------------|
| 84 dBA                 | 94 dBA      | 24.5 LB-FT^2 | 74 LB-FT^2 | 12 SEC.         | 2            | 1600 LBS.         |

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

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT         |
|-----------------|------------------|------------|-------------|-------------|--------------------|------------|---------|---------------|
| P-BASE          | STANDARD         | ROUND      | SHAFT DOWN  | FALSE       | NONE               | TRUE       | NONE    | BLUE (ENAMEL) |

| BEARINGS |                        | GREASE     | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL          | FRAME MATERIAL |
|----------|------------------------|------------|------------|------------|-------------|-------------------------|----------------|
| DE       | OPE                    |            |            |            |             |                         |                |
| BALL     | DOUBLE ANGULAR CONTACT | POLYREX EM | HP         | NONE       | NONE        | 1045 HOT ROLLED (C-204) | CAST IRON      |
| 6313     | 6313                   |            |            |            |             |                         |                |

| 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

|                           |
|---------------------------|
| INVERTER TORQUE: NONE     |
| INV. HP SPEED RANGE: NONE |
| ENCODER: NONE             |
| NONE NONE                 |
| NONE NONE PPR             |
| BRAKE: NONE NONE          |
| NONE P/N NONE             |
| NONE NONE                 |
| NONE FT-LB NONE V NONE Hz |

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DATE: 06/21/2017 04:15:27 AM  
 FORM 3531 REV.3 02/07/99  
 \*\* Subject to change without notice.

Data Sheet

Date: 19-06-2017  
 Customer: \_\_\_\_\_  
 Attention: \_\_\_\_\_  
 Submitted by: FAREEDA DUDEKULA



444TTDN16003

Submittal

Data @ 460 V

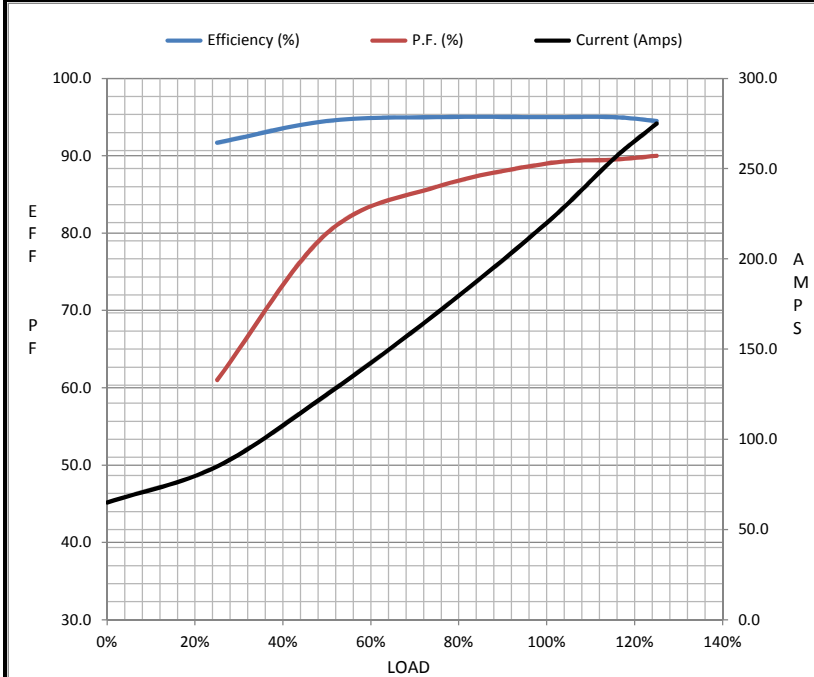
Motor Load Data

| Load           | 0%   | 25%  | 50%  | 75%  | 100% | 115%  | 125% | LR    |
|----------------|------|------|------|------|------|-------|------|-------|
| Current (Amps) | 65.0 | 85.0 | 125  | 170  | 220  | 255   | 275  | 1,425 |
| Torque (ft-lb) | 0.00 | 73.0 | 146  | 220  | 294  | 339   | 369  | 330   |
| RPM            | 3600 | 3592 | 3585 | 3578 | 3570 | 3,565 | 3562 | 0     |
| Efficiency (%) |      | 91.7 | 94.5 | 95.0 | 95.0 | 95.0  | 94.5 |       |
| P.F. (%)       | 6.0  | 61.0 | 80.0 | 86.0 | 89.0 | 89.5  | 90.0 | 22.0  |

Motor Speed Data

|                | LR    | Pull-Up | BD   | Rated | Idle |
|----------------|-------|---------|------|-------|------|
| Speed (RPM)    | 0     | 1800    | 3450 | 3570  | 3600 |
| Current (Amps) | 1,425 | 1,300   | 900  | 220   | 65.0 |
| Torque (ft-lb) | 330   | 275     | 825  | 294   | 0.00 |

| Information Block           |                         |        |        |        |
|-----------------------------|-------------------------|--------|--------|--------|
| HP                          | 200.0                   |        |        |        |
| Sync. RPM                   | 3600                    |        |        |        |
| Frame                       | 444                     |        |        |        |
| Enclosure                   | DP                      |        |        |        |
| Construction                | TDN                     |        |        |        |
| Voltage                     | 460 V                   |        |        |        |
| Frequency                   | 60 Hz                   |        |        |        |
| Design                      | A                       |        |        |        |
| LR Code letter              | G                       |        |        |        |
| Service Factor              | 1.15                    |        |        |        |
| Temp Rise @ FL              | 55 ° C                  |        |        |        |
| Duty                        | CONT                    |        |        |        |
| Ambient                     | 40 ° C                  |        |        |        |
| Elevation                   | 1,000 feet              |        |        |        |
| Rotor/Shaft wk <sup>2</sup> | 24.5 Lb-Ft <sup>2</sup> |        |        |        |
| Ref Wdg                     | T444268 NONE            |        |        |        |
| Sound Pressure @ 1M         | 84 dBA                  |        |        |        |
| VFD Rating                  | NONE                    |        |        |        |
| Outline Dwg                 | B-SS555833-2538         |        |        |        |
| Conn. Diag                  | A-EE7300U               |        |        |        |
| Additional Specifications:  |                         |        |        |        |
| 0                           |                         |        |        |        |
| 365THFS8036                 |                         |        |        |        |
| EQUIV CKT (OHMS / PHASE)    |                         |        |        |        |
| R1                          | R2                      | X1     | X2     | Xm     |
| 0.0180                      | 0.0100                  | 0.1450 | 0.0690 | 4.0900 |



Speed - Torque Curve

