

# PRODUCT INFORMATION PACKET

Model No: 213TTFBD6032  
Catalog No: GT1416A  
7 1/2, 1800, TEFC, 213TC, 3/60/575  
Totally Enclosed Fan Cooled (TEFC)



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**Nameplate Specifications**

|                            |                                    |                        |                   |
|----------------------------|------------------------------------|------------------------|-------------------|
| Output HP                  | <b>7.50 Hp</b>                     | Output KW              | <b>5.6 kW</b>     |
| Frequency                  | <b>60 Hz</b>                       | Voltage                | <b>575 V</b>      |
| Current                    | <b>7.6 A</b>                       | Speed                  | <b>1768 rpm</b>   |
| Service Factor             | <b>1.15</b>                        | Phase                  | <b>3</b>          |
| Efficiency                 | <b>93.3 %</b>                      | Duty                   | <b>Continuous</b> |
| Insulation Class           | <b>F</b>                           | Design Code            | <b>B</b>          |
| KVA Code                   | <b>H</b>                           | Frame                  | <b>213TC</b>      |
| Enclosure                  | <b>Totally Enclosed Fan Cooled</b> | Overload Protector     | <b>No</b>         |
| Ambient Temperature        | <b>40 °C</b>                       | Drive End Bearing Size | <b>6307</b>       |
| Opp Drive End Bearing Size | <b>6206</b>                        | UL                     | <b>Recognized</b> |
| CSA                        | <b>Y</b>                           | CE                     | <b>Y</b>          |
| IP Code                    | <b>43</b>                          |                        |                   |

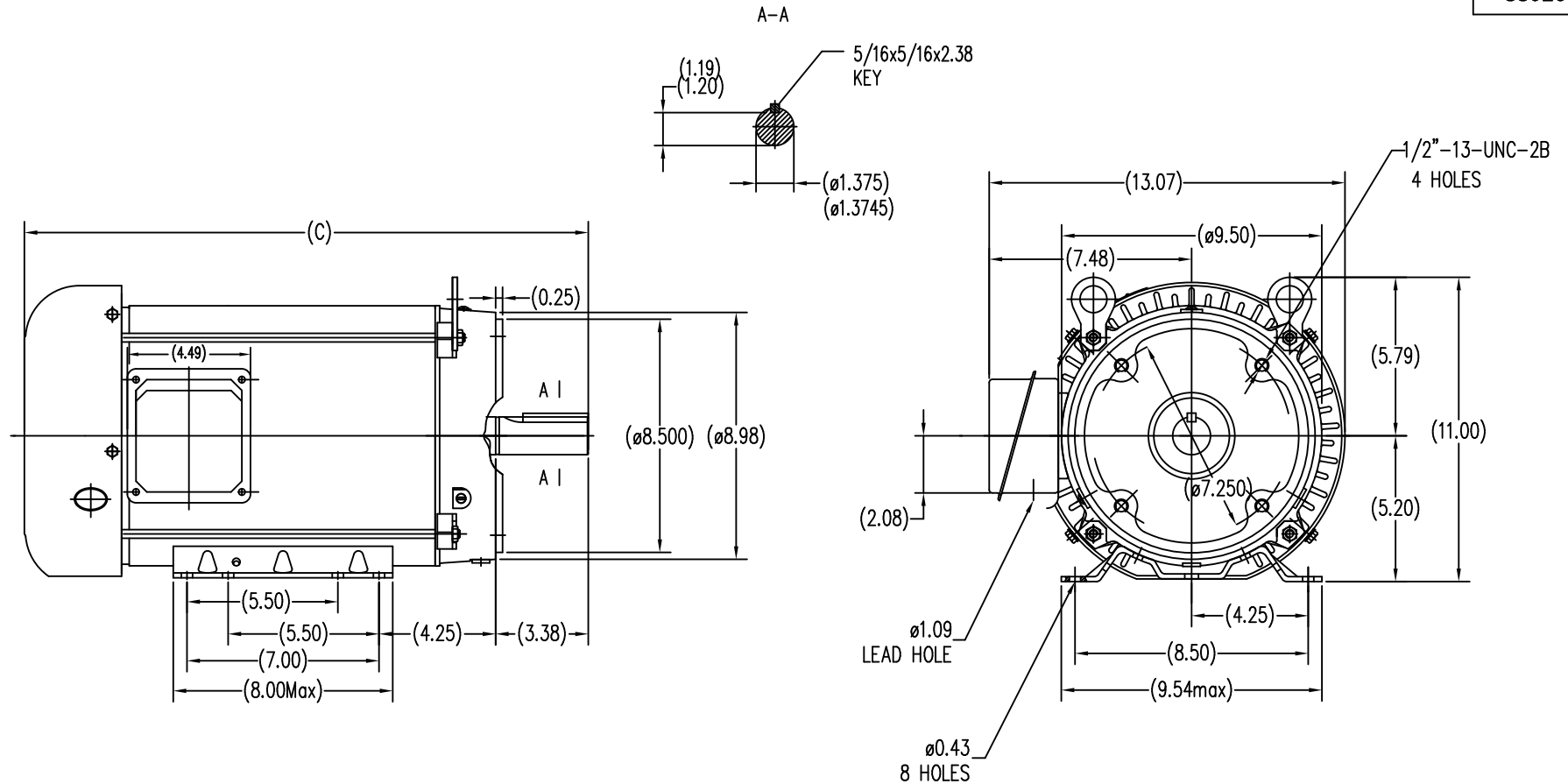
**Technical Specifications**

|                       |                                     |                       |                         |
|-----------------------|-------------------------------------|-----------------------|-------------------------|
| Electrical Type       | <b>Squirrel Cage Inverter Rated</b> | Starting Method       | <b>Line Or Inverter</b> |
| Poles                 | <b>4</b>                            | Rotation              | <b>Reversible</b>       |
| 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>Rolled Steel</b>                 | Shaft Type            | <b>T</b>                |
| Overall Length        | <b>19.10 in</b>                     | Frame Length          | <b>9.65 in</b>          |
| Shaft Diameter        | <b>1.375 in</b>                     | Shaft Extension       | <b>3.38 in</b>          |
| Assembly/Box Mounting | <b>F1/F2 Capable</b>                |                       |                         |
| Outline Drawing       | <b>SS620688-213TC</b>               | Connection Diagram    | <b>EE7300</b>           |

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# Uncontrolled Copy

SS620688



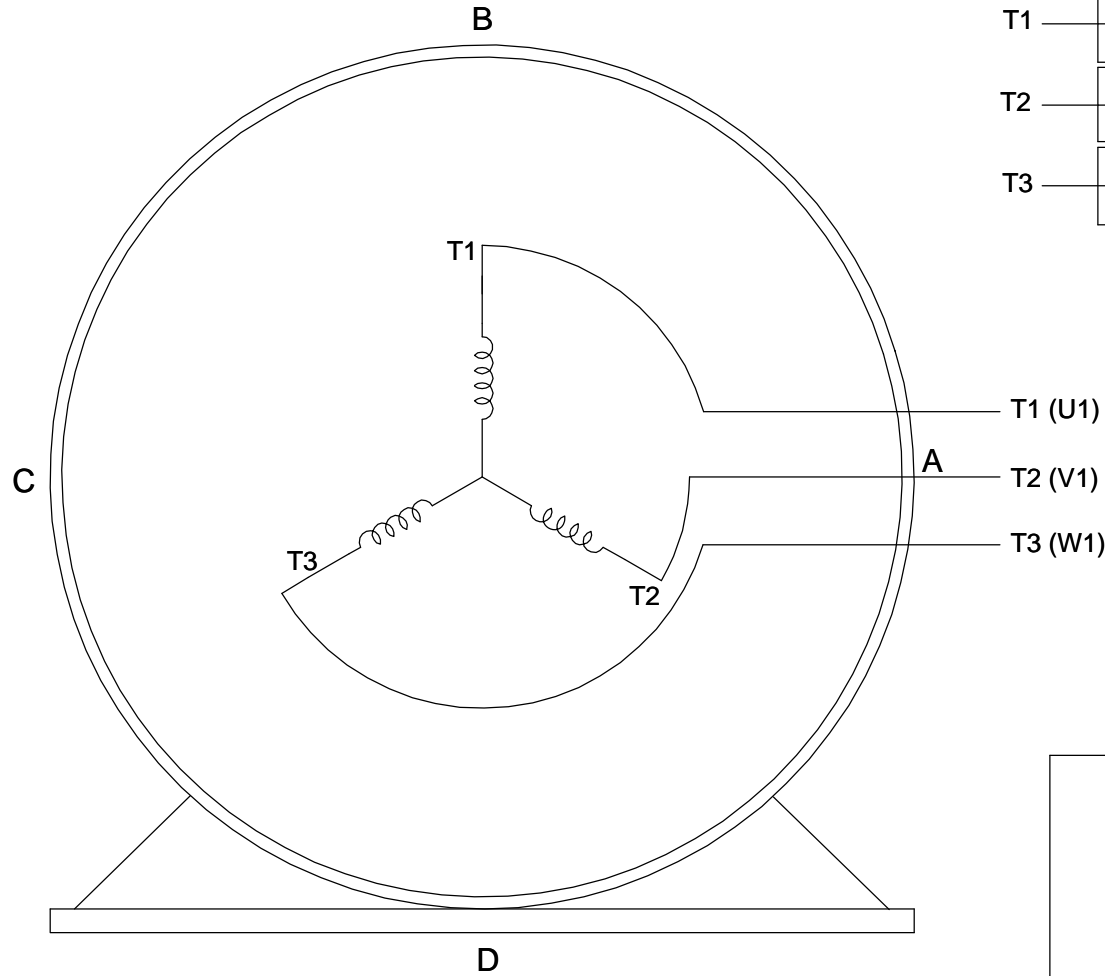
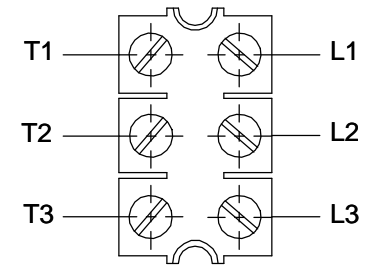
|       |      |
|-------|------|
| 213TC | 19.1 |
| 215TC | 20.7 |
| FRAME | C    |

|  |          | TOLERANCES UNLESS SPECIFIED |        | REGAL REGAL-BELOIT CORPORATION |          | DRAWN ZXW 06-03-2015 |             |
|--|----------|-----------------------------|--------|--------------------------------|----------|----------------------|-------------|
|  |          | DEC.                        | INCHES |                                |          | CHK ZL 06-03-2015    |             |
|  |          | .X                          | ±.1    |                                |          | APPD ZYH 06-03-2015  |             |
|  |          | .XX                         | ±.03   | TITLE                          |          | SCALE                |             |
|  |          | .XXX                        | ±.005  | 213/215TC-Face                 |          | REF                  |             |
|  |          | .XXXX                       | ±.0005 | MATL.                          |          | FMF REGAL-WUXI       |             |
| NO.  | REVISION | BY & DATE                   | CHK    | ANG                            | ±1/2"    | FINISH               | PREV        |
| THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT |          |                             |        | RFP                            | CAD FILE | SS620688             | SIZE        |
|  |          |                             |        | DIST                           |          |                      | DRAWING NO. |
|  |          |                             |        |                                |          |                      | B           |
|  |          |                             |        |                                |          |                      | SS620688    |
|  |          |                             |        |                                |          |                      | REV.        |
|  |          |                             |        |                                |          |                      | 2           |

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

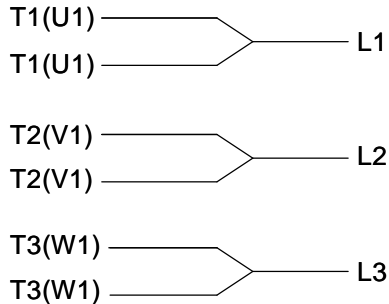
**TO REVERSE ROTATION:  
INTERCHANGE ANY TWO  
LINE LEAD CONNECTIONS.**

**TERMINAL BLOCK WHEN SPECIFIED**



**VIEW OF TERMINAL END**

**IF MOTOR HAS  
6 LEADS**

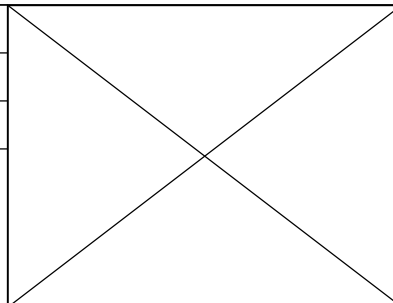




**A-9806 DECAL**

**OPTIONAL CORD  
CONNECTION**

- L1 WHITE
- L2 RED
- L3 BLACK

|   |                           |                           |
|---|---------------------------|---------------------------|
| 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>   |  <b>Regal Beloit America, Inc.</b> |
| DATE<br><b>03-26-1993</b>   |   |
| APPROVED BY<br><b>TB</b>  | DESCRIPTION<br><b>CONNECTION DIAGRAM</b>  |
| DATE<br><b>03-26-1993</b>   | <b>EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR</b>   |
| REFERENCE   | MATERIAL  |
| PROCESS/FINISH  |   |
| THIRD ANGLE<br>PROJECTION  | SIZE<br><b>A</b>  |
| DRAWING NUMBER<br><b>EE7300</b>   | SHEET<br><b>1 OF 1</b>  |



**P.O. BOX 8003  
WAUSAU, WI 54401-8003  
PH. 715-675-3311**

**CERTIFICATION DATA SHEET**

**CUSTOMER:** CUSTOMER PO #:  
**ORDER #:** MODEL #: 213TTFBD6032 AA  
**CONN. DIAGRAM:** EE7300 CUSTOMER PART #:  
**OUTLINE:** SS620688 MOUNTING: F1/F2 CAPABLE  
**WINDING #:** HE31324012 3

**TYPICAL MOTOR PERFORMANCE DATA**

| HP    | KW   | SYNC. RPM | F.L. RPM | FRAME            | ENCLOSURE  | KVA CODE | DESIGN |       |
|-------|------|-----------|----------|------------------|------------|----------|--------|-------|
| 7 1/2 | 5.60 | 1800      | 1768     | 213TC            | TEFC       | H        | B      |       |
| PH    | HZ   | VOLTS     | AMPS     | START TYPE       | DUTY       | INSL     | S.F.   | AMB°C |
| 3     | 60   | 575       | 7.6      | LINE OR INVERTER | CONTINUOUS | F7       | 1.15   | 40    |

|                       |      |                      |      |                      |      |                 |  |                   |
|-----------------------|------|----------------------|------|----------------------|------|-----------------|--|-------------------|
| <b>FULL LOAD EFF:</b> | 93.3 | <b>3/4 LOAD EFF:</b> | 93   | <b>1/2 LOAD EFF:</b> | 90   | <b>GTD. EFF</b> |  | <b>ELEC. TYPE</b> |
| <b>FULL LOAD PF:</b>  | 79.3 | <b>3/4 LOAD PF:</b>  | 73.4 | <b>1/2 LOAD PF:</b>  | 63.8 | 91              |  | SQ CAGE INV RATED |

|                    |                          |                    |                    |                    |
|--------------------|--------------------------|--------------------|--------------------|--------------------|
| <b>F.L. TORQUE</b> | <b>LOCKED ROTOR AMPS</b> | <b>L.R. TORQUE</b> | <b>B.D. TORQUE</b> | <b>F.L. RISE°C</b> |
| 22.3 LB-FT         | 49.6                     | 45 LB-FT 202 %     | 59 LB-FT 265 %     | 40                 |

|                               |                    |                   |                  |                        |                      |                          |
|-------------------------------|--------------------|-------------------|------------------|------------------------|----------------------|--------------------------|
| <b>SOUND PRESSURE @ 3 FT.</b> | <b>SOUND POWER</b> | <b>ROTOR WK^2</b> | <b>MAX. WK^2</b> | <b>SAFE STALL TIME</b> | <b>STARTS / HOUR</b> | <b>APPROX. MOTOR WGT</b> |
| 62 DBA                        | 72 DBA             | 0.95 LB-FT^2      | 75 LB-FT^2       | 25 SEC.                | 2                    | 175 LBS.                 |

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

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT         |
|-----------------|------------------|------------|-------------|-------------|--------------------|------------|---------|---------------|
| C-FACE          | STANDARD         | RIGID      | HORIZONTAL  | FALSE       | NONE               | FALSE      | NONE    | BLUE (ENAMEL) |

| BEARINGS                         | GREASE     | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL          | FRAME MATERIAL |
|----------------------------------|------------|------------|------------|-------------|-------------------------|----------------|
| DE ODE<br>BALL BALL<br>6307 6206 | POLYREX EM | T          | NONE       | NONE        | 1045 HOT ROLLED (C-204) | ROLLED STEEL   |

| THERMO-PROTECTORS |            |          |          | THERMISTORS |       |      | SPACE HEATERS |       |
|-------------------|------------|----------|----------|-------------|-------|------|---------------|-------|
| THERMOSTATS       | PROTECTORS | WDG RTDS | BRG RTDS | NONE        | FALSE | NONE | NONE          | VOLTS |
| NONE              | NOT        | NONE     | NONE     |             |       |      |               |       |

|                               |                                     |
|-------------------------------|-------------------------------------|
| <b>* INVERTER</b>             | TORQUE: CONSTANT 20:1/VARIABLE 20:1 |
| <b>N INV. HP SPEED RANGE:</b> | NONE                                |
| <b>O ENCODER:</b>             | NONE                                |
| <b>T NONE</b>                 | NONE                                |
| <b>E NONE</b>                 | PPR                                 |
| <b>S BRAKE:</b>               | NONE                                |
| <b>* NONE</b>                 | P/N NONE                            |
|                               | NONE                                |
|                               | NONE                                |
|                               | FT-LB NONE V NONE HZ                |

**PREPARED BY:** Fareeda Dudekula  
**DATE:** 05/04/2018 06:23:10 AM  
**FORM** 3531 REV.3 02/07/99  
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**MARATHON ELECTRIC CORPORATION**

TYPICAL PERFORMANCE CURVE for AC MOTOR

Customer

Curve at

575

Volts

HP 7.50

PHASE 3

Model No 213TTFBD6032

60

HZ

VOLTS 575

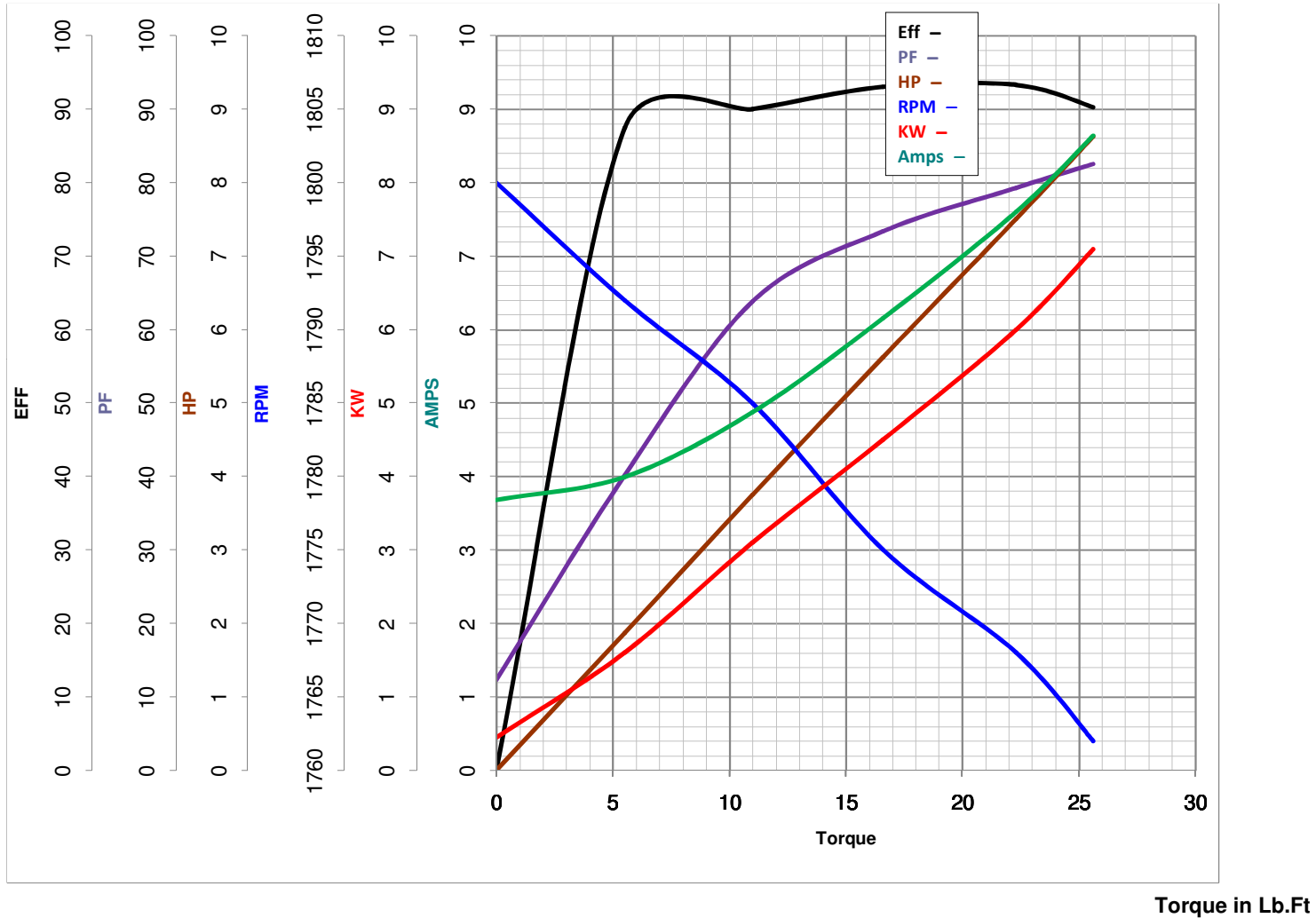
7.5

HP

Catalog No GT1416A

HZ 60

RPM 1768



FL TORQUE 22.3 Lb.Ft  
 BD TORQUE 59.0 Lb.Ft  
 LR TORQUE 45 Lb.Ft

FL AMPS 7.6  
 PU TORQUE 38.0 Lb.Ft  
 LR AMPS 49.6

WINDING HE31324012-3 Prepared By FAREEDA

Date 5/4/2018