

# PRODUCT INFORMATION PACKET

Model No: 215TTFND6501

Catalog No: E604A

10 HP, Severe Duty Motors, 3 phase, 3600 RPM, 460 V, 215T Frame, TEFC  
Severe Duty Motors



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies.  
©2021 Regal Rexnord Corporation, All Rights Reserved. MC017097E



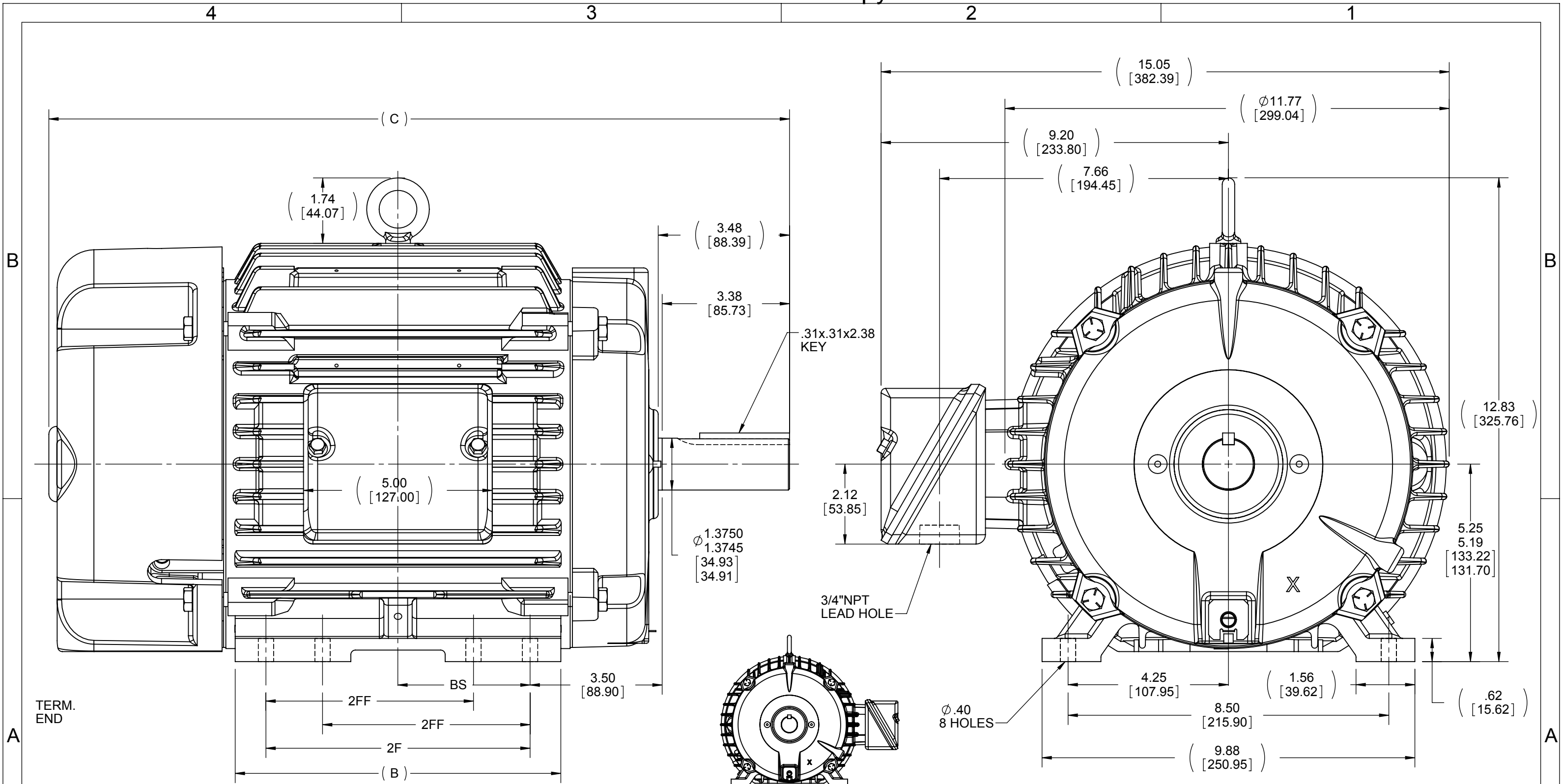
### Nameplate Specifications

|                        |                   |                            |                                    |
|------------------------|-------------------|----------------------------|------------------------------------|
| 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>11.9 A</b>     | Speed                      | <b>3520 rpm</b>                    |
| Service Factor         | <b>1.15</b>       | Phase                      | <b>3</b>                           |
| Efficiency             | <b>90.2 %</b>     | Power Factor               | <b>87.1</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>2</b>                            | Rotation              | <b>Reversible</b>       |
| Resistance Main       | <b>.8 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>19.63 in</b>         |
| Frame Length          | <b>9.12 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>037657-912</b>                   | Connection Drawing    | <b>A-EE7300</b>         |

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:11/30/2021



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  |                   |                  |
| <small>COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED.<br/>         PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF<br/>         REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY<br/>         INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED,<br/>         BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED<br/>         TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT<br/>         AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL<br/>         BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN<br/>         RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.</small> |                   |                  |

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 |

|                            |                          |
|----------------------------|--------------------------|
| Regal Beloit America, Inc. |                          |
| DESCRIPTION<br>OUTLINE     |                          |
| SIZE<br>B                  | DRAWING NUMBER<br>037657 |
| SHEET<br>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>  |                           |                           |
| <small>COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED.<br/>                 PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF<br/>                 REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY<br/>                 INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED,<br/>                 BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED<br/>                 TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT<br/>                 AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL<br/>                 BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN<br/>                 RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.</small> |                           |                           |



|                           |
|---------------------------|
| 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</b><br>EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR |
| MATERIAL                          | PROCESS/FINISH                  |  |
| SIZE<br><b>A</b>                  | DRAWING NUMBER<br><b>EE7300</b> | SHEET<br><b>1 OF 1</b>   |



**Data Sheet**

**Date:** 29-06-2017  
**Customer:** \_\_\_\_\_  
**Attention:** \_\_\_\_\_  
**Submitted by:** FAREEDA DUDEKULA



215TTFND6501

**Submittal**

Data @ **460 V**

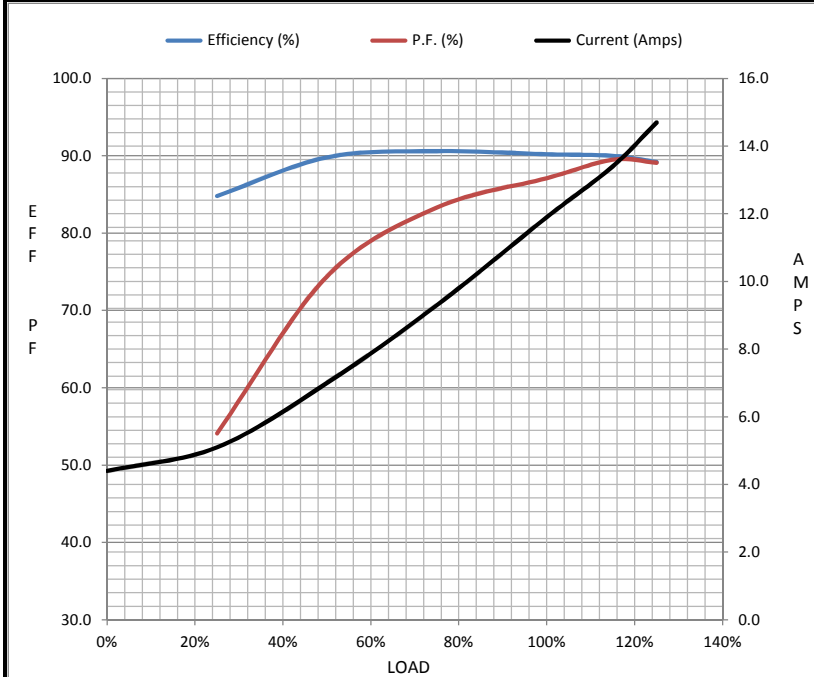
**Motor Load Data**

| Load           | 0%   | 25%  | 50%  | 75%  | 100% | 115%  | 125% | LR   |
|----------------|------|------|------|------|------|-------|------|------|
| Current (Amps) | 4.4  | 5.1  | 7.0  | 9.3  | 11.9 | 13.4  | 14.7 | 78.0 |
| Torque (ft-lb) | 0.00 | 3.7  | 7.4  | 11.1 | 14.9 | 17.2  | 18.8 | 29.0 |
| RPM            | 3600 | 3580 | 3560 | 3540 | 3520 | 3,515 | 3495 | 0    |
| Efficiency (%) |      | 84.8 | 89.8 | 90.6 | 90.2 | 90.0  | 89.2 |      |
| P.F. (%)       | 8.6  | 54.1 | 74.4 | 83.3 | 87.1 | 89.5  | 89.1 | 40.0 |

**Motor Speed Data**

|                | LR   | Pull-Up | BD   | Rated | Idle |
|----------------|------|---------|------|-------|------|
| Speed (RPM)    | 0    | 1800    | 3065 | 3520  | 3600 |
| Current (Amps) | 78.0 | 72.0    | 50.0 | 11.9  | 4.4  |
| Torque (ft-lb) | 29.0 | 27.0    | 46.0 | 14.9  | 0.00 |

| Information Block           |                         |        |        |         |
|-----------------------------|-------------------------|--------|--------|---------|
| HP                          | 10.0                    |        |        |         |
| Sync. RPM                   | 3600                    |        |        |         |
| 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              | 60 ° C                  |        |        |         |
| Duty                        | CONT                    |        |        |         |
| Ambient                     | 40 ° C                  |        |        |         |
| Elevation                   | 1,000 feet              |        |        |         |
| Rotor/Shaft wk <sup>2</sup> | 0.55 Lb-Ft <sup>2</sup> |        |        |         |
| Ref Wdg                     | K2152227 NONE           |        |        |         |
| Sound Pressure @ 1M         | 72 dBA                  |        |        |         |
| VFD Rating                  | CONSTANT 20:1           |        |        |         |
| Outline Dwg                 | 037657-912              |        |        |         |
| Conn. Diag                  | A-EE7300                |        |        |         |
| Additional Specifications:  |                         |        |        |         |
| 0                           |                         |        |        |         |
| 365THFS8036                 |                         |        |        |         |
| EQUIV CKT (OHMS / PHASE)    |                         |        |        |         |
| R1                          | R2                      | X1     | X2     | Xm      |
| 0.8280                      | 0.5020                  | 1.9740 | 1.3470 | 58.5630 |



**Speed - Torque Curve**

