

# PRODUCT INFORMATION PACKET

Model No: 213TTFS6501  
Catalog No: E396  
7.50 HP Severe Duty Motor, 3 phase, 3600 RPM, 460 V, 213T Frame, TEFC  
Severe Duty Motors



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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>460 V</b>                       |
| Current                | <b>8.9 A</b>      | Speed                      | <b>3540 rpm</b>                    |
| Service Factor         | <b>1.15</b>       | Phase                      | <b>3</b>                           |
| Efficiency             | <b>90.2 %</b>     | Power Factor               | <b>87</b>                          |
| Duty                   | <b>Continuous</b> | Insulation Class           | <b>F</b>                           |
| Design Code            | <b>B</b>          | KVA Code                   | <b>H</b>                           |
| Frame                  | <b>213T</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>6206</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>1.163 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>19.72 in</b>         |
| Frame Length          | <b>8.75 in</b>                      | Shaft Diameter        | <b>1.375 in</b>         |
| Shaft Extension       | <b>3.56 in</b>                      | Assembly/Box Mounting | <b>F1/F2 Capable</b>    |
| Connection Drawing    | <b>A-EE7300</b>                     | Outline Drawing       | <b>B-SS84236-875</b>    |

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

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

**TERMINAL BLOCK WHEN SPECIFIED**



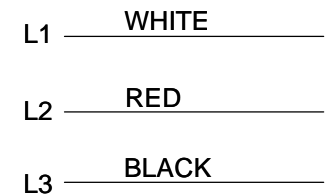
**VIEW OF TERMINAL END**

**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> |



Data Sheet

Date: 6/19/2017

213TTF6501

Customer: \_\_\_\_\_



Attention: \_\_\_\_\_

**Submittal**

Submitted by: FAREEDA DUDEKULA

Data @ 460 V

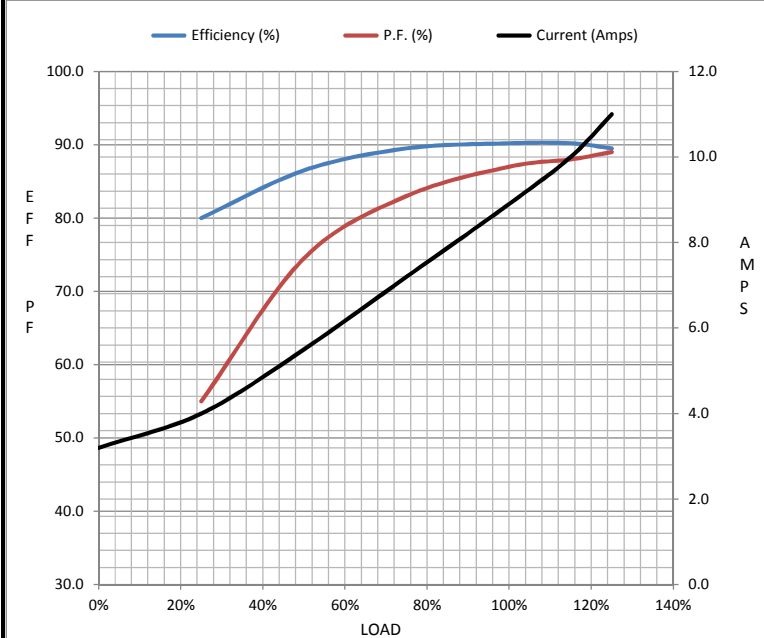
Motor Load Data

| Load           | 0%   | 25%  | 50%  | 75%  | 100% | 115%  | 125% | LR   |
|----------------|------|------|------|------|------|-------|------|------|
| Current (Amps) | 3.2  | 4.0  | 5.5  | 7.2  | 8.9  | 10.0  | 11.0 | 63.5 |
| Torque (ft-lb) | 0.00 | 2.50 | 5.5  | 8.5  | 11.1 | 12.5  | 14.0 | 24.0 |
| RPM            | 3600 | 3585 | 3575 | 3560 | 3540 | 3,535 | 3530 | 0    |
| Efficiency (%) |      | 80.0 | 86.5 | 89.5 | 90.2 | 90.2  | 89.5 |      |
| P.F. (%)       | 12.0 | 55.0 | 74.5 | 83.0 | 87.0 | 88.0  | 89.0 | 40.0 |

Motor Speed Data

|                | LR   | Pull-Up | BD   | Rated | Idle |
|----------------|------|---------|------|-------|------|
| Speed (RPM)    | 0    | 1800    | 3250 | 3540  | 3600 |
| Current (Amps) | 63.5 | 57.0    | 40.0 | 8.9   | 3.2  |
| Torque (ft-lb) | 24.0 | 22.0    | 38.0 | 11.1  | 0.00 |

| Information Block           |                         |        |        |         |
|-----------------------------|-------------------------|--------|--------|---------|
| HP                          | 7.5                     |        |        |         |
| Sync. RPM                   | 3600                    |        |        |         |
| Frame                       | 213                     |        |        |         |
| Enclosure                   | TEFC                    |        |        |         |
| Construction                | TFN                     |        |        |         |
| Voltage                     | 460 V                   |        |        |         |
| Frequency                   | 60 Hz                   |        |        |         |
| Design                      | A                       |        |        |         |
| LR Code letter              | H                       |        |        |         |
| Service Factor              | 1.15                    |        |        |         |
| Temp Rise @ FL              | 40 °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                     | K213269 NONE            |        |        |         |
| Sound Pressure @ 1M         | 72 dBA                  |        |        |         |
| VFD Rating                  | VARIABLE 10:1           |        |        |         |
| Outline Dwg                 | B-SS84236-875           |        |        |         |
| Conn. Diag                  | A-EE7300                |        |        |         |
| Additional Specifications:  |                         |        |        |         |
| 0                           |                         |        |        |         |
| 0                           |                         |        |        |         |
| EQUIV CKT (OHMS / PHASE)    |                         |        |        |         |
| R1                          | R2                      | X1     | X2     | Xm      |
| 0.6880                      | 0.4690                  | 2.2980 | 2.3930 | 80.8920 |



Speed -Torque Curve

