## PRODUCT INFORMATION PACKET

Model No: 445THFCD9087 Catalog No: W614A

Severe Duty Motors, TEFC, 150 HP, 3 Ph, 60 Hz, 460 V, 1190 RPM, 445T Frame



Regal and are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E



Product Information Packet: Model No: 445THFCD9087, Catalog No:W614A Severe Duty Motors, TEFC, 150 HP, 3 Ph, 60 Hz, 460 V, 1190 RPM, 445T Frame

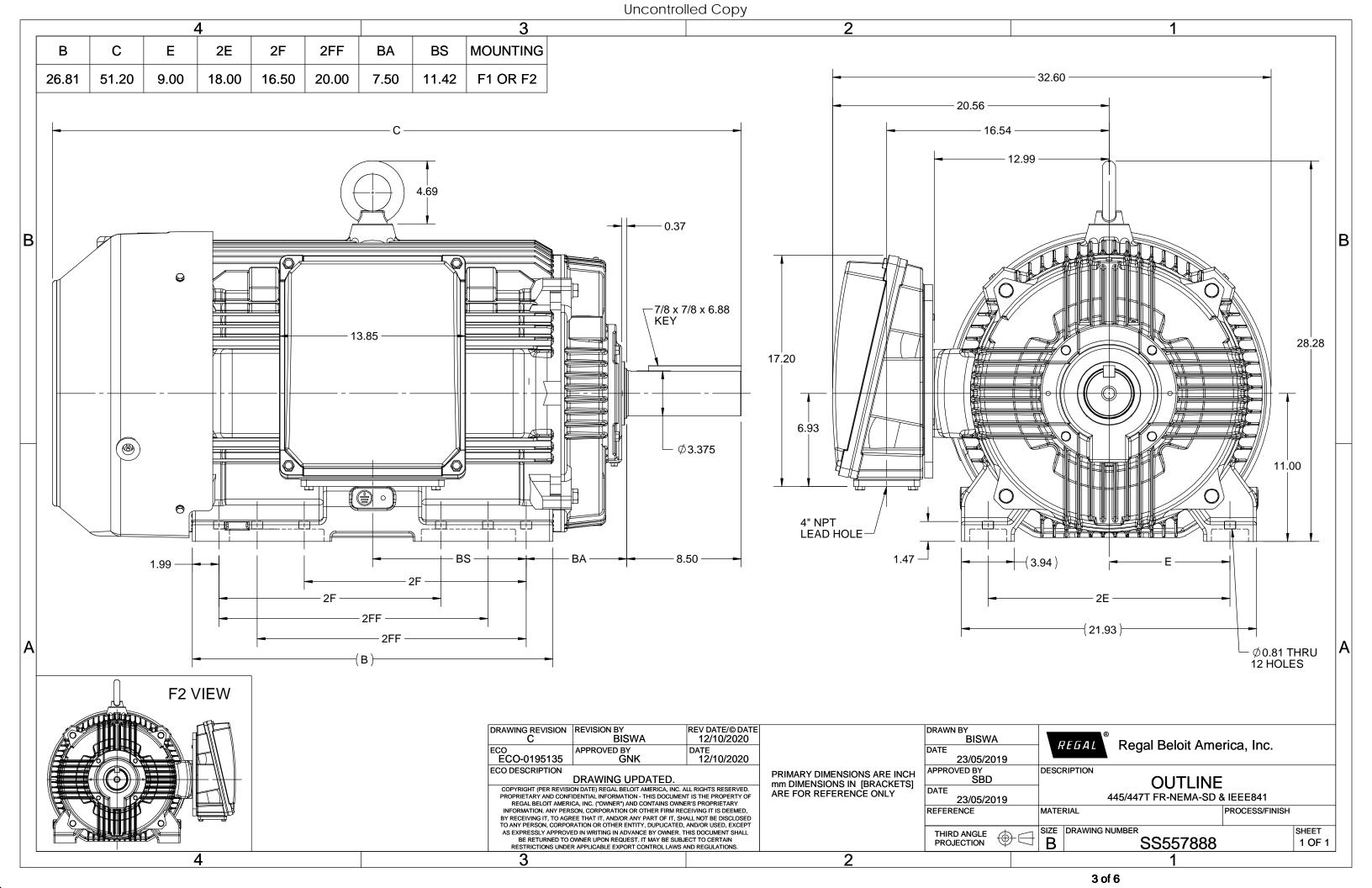
#### Nameplate Specifications

| 150 Hp                            | Output KW  | 112.0 kW   |  |  |  |
|-----------------------------------|--|--|--|--|--|
| 60 Hz                             | Voltage  | 460 V  |  |  |  |
| 171.0 A                           | Speed  | 1190 rpm   |  |  |  |
| 1.15                              | Phase  | 3  |  |  |  |
| 95.8 %                            | Power Factor   | 86   |  |  |  |
| Continuous                        | Insulation Class   | Н  |  |  |  |
| В                                 | KVA Code   | G  |  |  |  |
| 445T                              | Enclosure  | Totally Enclosed Fan Cooled  |  |  |  |
| No Protection                     | Ambient Temperature  | 40 °C  |  |  |  |
| NU319                             | Opp Drive End Bearing Size   | 6317   |  |  |  |
| Listed                            | CSA  | Υ  |  |  |  |
| Υ                                 | IP Code  | 56   |  |  |  |
| Hazardous Location DIVISION 2 T2B |  | 1  |  |  |  |
|                                   | 60 Hz 171.0 A 1.15 95.8 % Continuous B 445T No Protection NU319 Listed Y | 60 Hz Voltage  171.0 A Speed  1.15 Phase  95.8 % Power Factor  Continuous Insulation Class  B KVA Code  445T Enclosure  No Protection Ambient Temperature  NU319 Opp Drive End Bearing Size  Listed CSA  Y IP Code |  |  |  |

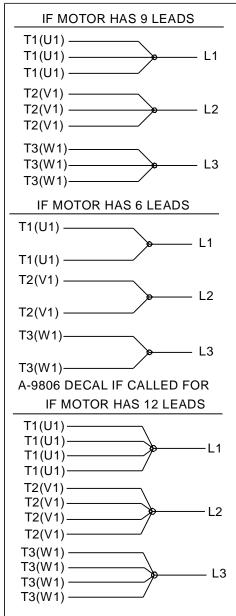
### **Technical Specifications**

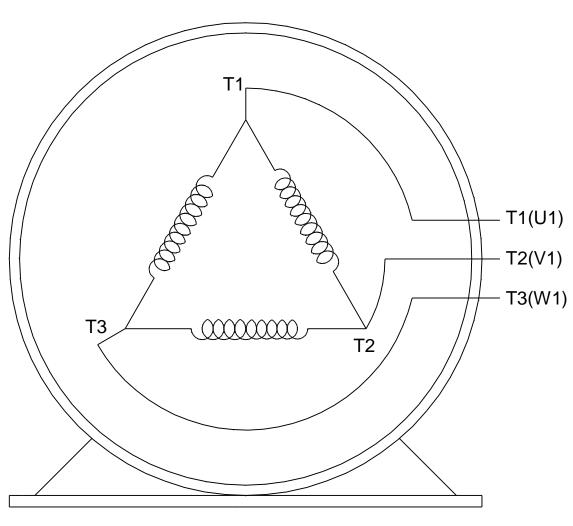
| Electrical Type       | Squirrel Cage Inverter Rated | Starting Method   | Line Or Inverter           |
|-----------------------|------------------------------|-------------------|----------------------------|
| Poles                 | 6                            | Rotation          | Reversible                 |
| Resistance Main       | .0223 Ohms                   | Mounting          | Rigid Base                 |
| Motor Orientation     | Horizontal                   | Drive End Bearing | Roller                     |
| Opp Drive End Bearing | Ball                         | Frame Material    | Cast Iron                  |
| Shaft Type            | Т                            | Shaft Diameter    | 3.375 in                   |
| Assembly/Box Mounting | F1/F2 CAPABLE                | Inverter Load     | CONSTANT 2:1/VARIABLE 10:1 |
| Connection Drawing    | EE7300U                      | Outline Drawing   | SS557888                   |

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:05/11/2022



Uncontrolled Copy





# **VIEW OF TERMINAL END**

| DRAWING REVISION | REVISION BY | DATE       |
|------------------|-------------|------------|
| L                | AJW         | 05-04-2015 |
| ECO              | APPROVED BY | DATE       |
| ECO-0077067      | EWH         | 05-05-2015 |
| ECO DESCRIPTION  |             |            |

#### UPDATED TO SOLIDWORKS

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

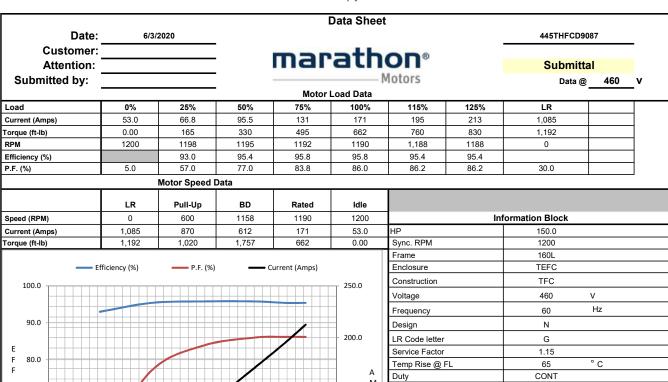
| TOLER <i>i</i> | NCES UN     | ILESS         |              |
|----------------|-------------|---------------|--------------|
| OTHER          | WISE SPE    | CIFIED:       |              |
| DEC.           | <u>INCH</u> | <u>mm</u>     | <u>ANGLE</u> |
| .X             | ±0.1        | [±2.5]        | ±7' 30"      |
| .XX            | ±0.02       | [±0.51]       |              |
| XXX            | ±0.005      | [±0.127]      |              |
| .XXXX          | ±0.0005     | [±0.0127]     |              |
| REMOV          | E BURRS     | & BREAK S     | HARP         |
| EDGES:         | .003/.015   | 5 [.076/.381] | X 45°        |
| CORNE          | R FILLETS   | S: R.02 [.51  | ]            |
| MACHIN         | IED SURF    | ACES: 200     | 5.1/         |
|                |             | INCH ∨        | $mm \bigvee$ |
| mm SHC         | OWN IN [E   | BRACKETS]     |              |

| DRS  DATE  09-27-1996           | REGAL Regal Beloit Amer                 | rica, Inc.     |                 |  |  |
|---------------------------------|---|----------------|-----------------|--|--|
| APPROVED BY GK  DATE 09-30-1996 | CONN DIAGRAM-EXTERNAL 3Ø SINDLE VOLTAGE |                |                 |  |  |
| REFERENCE                       | MATERIAL                                | PROCESS/FINISH |                 |  |  |
| THIRD ANGLE PROJECTION          | A PRAWING NUMBER EE7300U                |                | SHEET<br>1 OF 1 |  |  |



DATA VOLTS: 460

|                                   |                                   |                                   |            |                    |        |                           |           |                                   |        | DATA VOLTS:   | 460        |            |          |
|-----------------------------------|-----------------------------------|-----------------------------------|------------|--------------------|--------|---------------------------|-----------|-----------------------------------|--------|---|------------|------------|----------|
| CERTIFICATION DATA SHEET          |                                   |                                   |            |                    |        |                           |           |                                   |        |   |            |            |          |
| CONN. DIA<br>OUTLINE:<br>WINDING: |                                   | EE7300U<br>SS557888<br>HA32806007 | NONE       | 5                  |        | R                         |           | E MODEL #:<br>CAT #:<br>MOUNTING: |        | W614A   |            |            |          |
|                                   |                                   |                                   |            |                    | TVDI   | CAL MOTOR PERFO           | DM ANA    | CE DATA                           |        |   |            |            |          |
| 1                                 |                                   |                                   |            |                    | ITPI   |                           |           |                                   |        |   |            |            |          |
| HP                                | KW                                | SYNC RPM                          | FL R       | PM                 |        | FRAME                     | ENCLOSURE |                                   | TYPE   | KVA COD   | E          | DESIGN     |          |
| 150                               | 112                               | 1200                              | 119        | 0                  |        | 445T                      | Т         | EFC                               | TFC    | G   |            | E          | <b>!</b> |
| PH                                | HZ                                | VOLTS                             | AMF        | PS .               |        | START TYPE                |           | UTY                               | INSL   | S.F.  | AMB(° C)   | ELE\       | /.(Ft)   |
| 3                                 | 60                                | 460                               | 17         | 1                  | L      | INE OR INVERTER           | С         | ONT                               | Н      | 1.15  | 40         | 33         | . ,      |
|                                   | F.L. EFF                          | 95.8                              | 3/4 LD EFF | 95.8               |        | 1/2 LD EFF                | 95.4      | GTD EFF                           |        |   | LECT. TYPE | =          |          |
|                                   | F.L. EFF                          | 86.0                              | 3/4 LD EFF | 83.8               |        | 1/2 LD EFF                | 77.0      | 95.4                              |        |   | AGE INV RA |            |          |
|                                   |                                   |                                   |            |                    |        |                           |           |                                   |        |   |            |            |          |
| F.L. TO                           | ORQUE                             | LR AMPS @                         | 460 V      |                    | L.F    | R. TORQUE                 | E         | 3.D. TORQUE                       |        | F.L. RISE (   | , C)       |            |          |
| 662                               | LB-FT                             | 1,085                             |            | 1,192              | LB-FT  | 180%                      | 1,757     | LB-FT                             | 265%   | 65  |            |            |          |
| SOUND P                           | RESSURE                           | SOUND                             | ROTOR      | WK <sup>2</sup>    | 1      | MAX. LOAD WK <sup>2</sup> | SAFE S    | TALL TIME                         | S.     | TARTS/HOUR  | APROX      | . мо       | TOR WGT  |
|                                   | dBA                               | 84 dBA                            |            | LB-FT <sup>2</sup> | 1500   | LB-FT <sup>2</sup>        | 25        | SEC.                              |        | 2   | 2404       |            | TOR WOT  |
|                                   |                                   | ODE BRACKET                       | MOUNT      |                    | TOR    | * SUPPLEMENTAL INF        | HAZA      | ARDOUS                            | DRIP   |   |            |            |          |
|                                   | KET TYPE                          | TYPE                              | TYPE       |                    | TATION | SEVERE DUTY               |           | ATION                             | COVER  | SCREENS   |            | PAINT      |          |
| STAN                              | IDARD                             | STANDARD                          | RIGID      | HURIZ              | ZONTAL | PREMIUM SEVERE DUTY       | DIVISI    | ON 2 T2B                          | NO     | NONE  |            | BLUE (EPOX | Υ)       |
| DE                                | ODE                               | GREASE                            | SHAFT      | TYPE               |        | SPECIAL DE                | SPEC      | IAL ODE                           | SHAFT  | MATERIAL  | F          | RAME MATER | RIAL     |
| ROLLER<br>NU319                   | 6317                              | POLYREX EM                        | Т          |                    |        | NONE                      | N         | ONE                               | 1045 H | OT ROLLED (C-204)                                   |            | CAST IRON  |          |
| THERM                             | OSTATS                            | PROTECTORS                        | WDG R      | TD's               |        | BRG RTD's                 | THER      | MISTORS                           |        | CONTROL   | SPA        | ACE HEA    | TERS     |
| NO                                | NE                                | NOT                               | NON        | IE                 |        | NONE                      | N         | ONE                               |        | FALSE   |            | NA         |          |
| R1 (oh                            | ıms/ph)                           | R2 (ohms/ph)                      | X1 (ohm    | ns/nh)             |        | X2 (ohms/ph)              | Xm (c     | ohms/ph)                          | VIB    | RATION (in/sec)                                     |            |            |          |
|                                   | 014                               | 0.013                             | 0.13       | <u> </u>           |        | 0.227                     |           | .952                              | 1      | 0.080   |            |            |          |
| * N O T                           |                                   |                                   |            |                    |        |                           | 1         |                                   | ORQUE: | factory for further info<br>CONSTANT 2:1/VA<br>NONE |            | 1          |          |
| E<br>S                            |                                   |                                   |            |                    |        |                           |           | ENCODER:<br>NONE<br>NONE          | NONE   |   | NONE       | PPR        |          |
| PREP                              | ARED BY:<br>DATE:                 | 6/3/2020                          |            |                    |        |                           |           | BRAKE:<br>NON<br>FT-LB:           | E      | NONE<br>NA  |            |            |          |
|                                   | to change w<br>31 REV 4           | ithout notice.<br>2/27/06         |            |                    |        |                           |           | VOLTAGE:                          |        | NONE  |            |            | HZ       |
|                                   | - · · · <u>-</u> · _ <del>-</del> |                                   |            |                    |        |                           |           |                                   |        |   |            |            |          |



150.0

100.0

50.0

70.0

60.0

40.0

Ambient

Elevation

Ref Wdg

VFD Rating

Outline Dwg

Conn. Diag

Rotor/Shaft wk²

Sound Pressure @ 1M

Additional Specifications:

° C

feet

Lb-Ft<sup>2</sup>

dBA

037898-912

EE7300U

40

3.300

138

75

CONSTANT 2:1/VARIABLE 10:1

HA32806007 NONE

