# PRODUCT INFORMATION PACKET



Model No: 256THFCD9026 Catalog No: W553A

XRI®-841 Severe Duty Motor, 20 HP, 3 Ph, 60 Hz, 460 V, 1800 RPM, 256T Frame, TEFC



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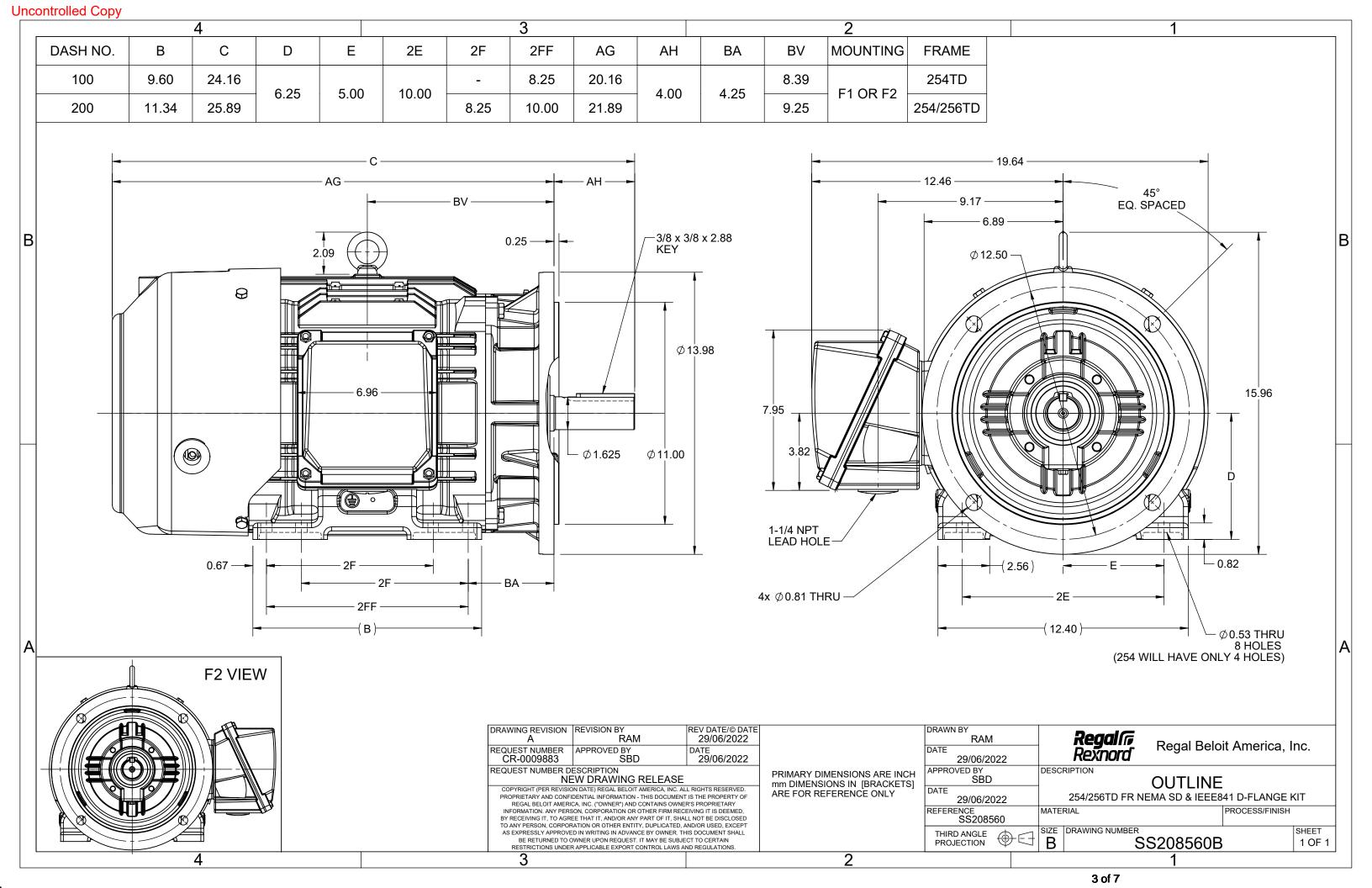
## Nameplate Specifications

|                        |               | Output HP                  | 20 Hp                       |
|------------------------|---------------|----------------------------|-----------------------------|
| Output KW              | 14.9 kW       | Voltage                    | 460 V                       |
| Speed                  | 1768 rpm      | Service Factor             | 1.15                        |
| Frame                  | 256T          | Enclosure                  | Totally Enclosed Fan Cooled |
| Thermal Protection     | No Protection | Efficiency                 | 93 %                        |
| Ambient Temperature    | 40 °C         | Frequency                  | 60 Hz                       |
| Current                | 24.2 A        | Power Factor               | 83.5                        |
| Duty                   | Continuous    | Insulation Class           | Н                           |
| Design Code            | В             | KVA Code                   | G                           |
| Drive End Bearing Size | 6309          | Opp Drive End Bearing Size | 6209                        |
| UL                     | Listed        | CSA                        | Υ                           |
| CE                     | Υ             | IP Code                    | 56                          |
| Number of Speeds       | 1             | Hazardous Location         | DIVISION 2 T2B              |

## **Technical Specifications**

| Electrical Type       | Squirrel Cage Inverter Rated | Starting Method    | Line Or Inverter            |
|-----------------------|------------------------------|--------------------|-----------------------------|
| Poles                 | 4                            | Rotation           | Reversible                  |
| Resistance Main       | .513 Ohms                    | Mounting           | Rigid Base                  |
| Motor Orientation     | Horizontal                   | Drive End Bearing  | Ball                        |
| Opp Drive End Bearing | Ball                         | Frame Material     | Cast Iron                   |
| Shaft Type            | т                            | Shaft Diameter     | 1.626 in                    |
| Assembly/Box Mounting | F1/F2 CAPABLE                | Inverter Load      | CONSTANT 10:1/VARIABLE 10:1 |
| Outline Drawing       | SS208560-200                 | Connection Drawing | EE7300                      |

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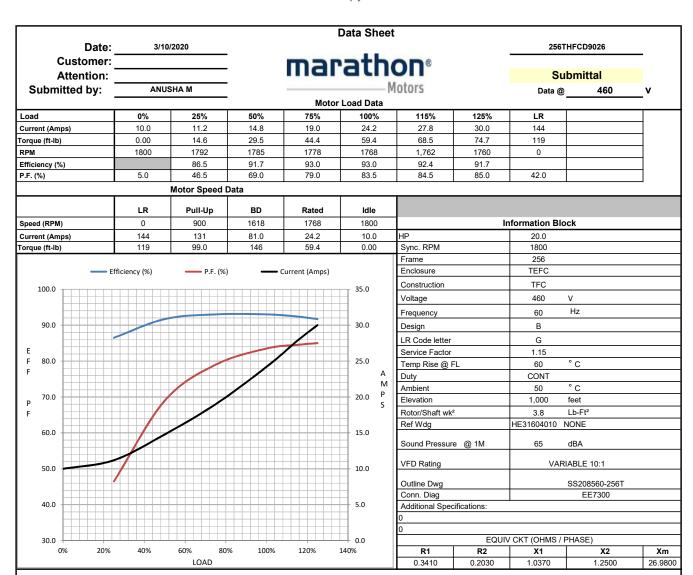


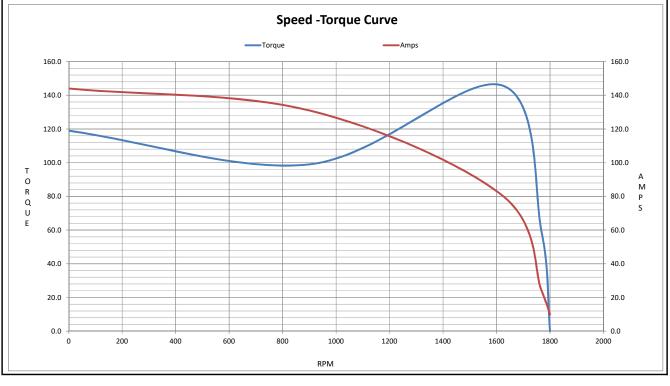
DATA VOLTS:

#### **CERTIFICATION DATA SHEET**

| PH   |              |             |                         |          |                    |                    | CEF            | RTIFICATION DATA S             | HEET                       |                         |                    |             |                  |         |
|--|--------------|-------------|-------------------------|----------|--------------------|--------------------|----------------|--------------------------------|----------------------------|-------------------------|--------------------|-------------|------------------|---------|
|  |              |             |                         | 0507     |                    |                    |                |                                |                            |                         |                    |             |                  | _       |
| HP   |              |             |                         |          |                    | NONE 8             |                |                                |                            | MOUNTING: F1/F2 CAPABLE |                    |             |                  |         |
| PH   |              |             |                         |          |                    | Т                  | YPICAL         | MOTOR PERFORMA                 | NCE D                      | ATA                     |                    |             |                  |         |
| PH   | HP           | кw          | SYNO                    | CRPM     | FLR                | PM                 | FRAME          |                                | ENCLOSURE                  |                         | TYPE               | KVA C       | ODE              | DESIGN  |
| 3   60   460   24.2   LINE OR INVERTER   CONT   H   1.15   40  | 20           | 14.9        | 1800 1                  |          | 176                | 1768               |                | 256T                           |                            | TEFC                    |                    | G           |                  | В       |
| 3   60   460   24.2   LINE OR INVERTER   CONT   H   1.15   40  | PH           | HZ          | VO                      | LTS      | AMDS               |                    | START TYPE     |                                | DUTY                       |                         | INSL               | S.F. AMR (° |                  | ELEV.(F |
| F.L. PF  |              | _           |                         |          |                    |                    |                |                                |                            |                         |                    |             | <del>- ` '</del> | 3300    |
| F.L. TORQUE  |              |             |                         |          |                    |                    |                |                                |                            |                         |                    |             |                  |         |
| SOUND PRESSURE @   SOUND   |              | F.L. PF     | 83.5 <b>3/4 LD PF</b> 7 |          | 79.0               | 1/2 LD PF          |                | 69.0 92.4                      |                            |                         | SQ CAGE            | INV RATED   |                  |         |
| SOUND PRESSURE   | F.L.         | TORQUE      | LF                      | R AMPS @ | 0 460 V I R TORQUE |                    | B.D. TORQUE    |                                | F.L. RISE                  | FI RISE (° C)           |                    |             |                  |         |
| STANDARD   |              |             |                         |          |                    | 119                |                |                                | 146                        |                         |                    |             | ,                |         |
| STANDARD   | OLIND        | DDESSIIDE @ | 80                      | IIND     | POTOE              | ) \N\K2            | Т              | MAY LOAD WK2                   | SVEE 8                     | TALL TIME               | STA                | PTS/HOLIP   | APPOY            | мото    |
| ### SUPPLEMENTAL INFORMATION ***    DE BRACKET TYPE  |              |             |                         |          |                    |                    |                |                                |                            |                         |                    |             |                  | LB.     |
| BEARINGS   GREASE   SHAFT TYPE   SPECIAL DE   SPECIAL ODE   SHAFT   MATERIAL   FRAME MATERIAL   BALL   BA   |              |             |                         |          | OTOR               |                    | HAZARDOUS DRIP |                                | SCREENS                    | PAINT                   |                    |             |                  |         |
| DE   | ST           | ANDARD      | STAN                    | IDARD    | RIGID              | HORI               | ZONTAL         | PREMIUM SEVERE DUTY            | DIVISION 2 T2B             |                         | NO                 | NONE        | BLUE (EPOXY)     |         |
| DE   ODE   | BE           | ARINGS      | 000                     | - 405    | 011457             | TVDE               |                | ODEOLAL DE                     | 205                        | NAL ODE                 | OUAFT              | MATERIAL    | FD 4 14 F        |         |
| THERMOSTATS  |              |             | GREASE                  |          | SHAFI              | TYPE SPECIAL DE    |                | SPECIAL DE                     | SPECIAL ODE                |                         | SHAFI MIATERIAL    |             | FRAME MATERIAL   |         |
| NONE   NOT   NONE   N   |              | POLYREX EM  |                         | REX EM   | Т                  |                    | NONE           |                                | NONE 1045 HOT ROLLED (C-20 |                         | ROLLED (C-204)     | CAST IRON   |                  |         |
| R1 (ohms/ph)   R2 (ohms/ph)   X1 (ohms/ph)   X2 (ohms/ph)   Xm (ohms/ph)   VIBRATION (in/sec)  | THERMOSTATS  |             | PROTECTORS WDG          |          | WDG R              | DG RTD's BRG RTD's |                | THERMISTORS                    |                            | CONTROL                 |                    | SPACE       | HEATER           |         |
| 0.341 0.203 1.037 1.25 26.98 0.080    If Inverter equals NONE, contact factory for further information   |              | NONE        | N                       | ОТ       | NON                | ΝE                 |                | NONE                           | 1                          | NONE                    |                    | FALSE       |                  | NA      |
| If Inverter equals NONE, contact factory for further informa   N   | R1 (ohms/ph) |             | R2 (of                  | nms/ph)  | X1 (ohn            | ns/ph)             |                | X2 (ohms/ph)                   | Xm (ohms/ph)               |                         | VIBRATION (in/sec) |             |                  |         |
| N  | 0.341        |             | 0.                      | 203      | 1.03               | 37                 | 1.25           |                                |                            |                         |                    |             |                  |         |
| NONE NONE PROPERTY OF THE PROP | N<br>O       |             |                         |          |                    |                    |                | INVERTER TORQUE: VARIABLE 10:1 |                            | VARIABLE 10:1           | for further in     | ormation    |                  |         |
| NONE P   | E<br>S       | S           |                         |          |                    |                    | NONE           |                                |                            |                         |                    |             |                  |         |
| BRAKE: NONE  |              |             |                         |          |                    |                    |                |                                |                            |                         | NONE               |             | NUN              | □ PPR   |

FORM: 3531 REV\_4 2/27/06
\*\* Subject to change without notice.







# **EC Declaration of Conformity**

The undersigned representing the manufacturer:

Regal Beloit America 100 East Randolph St. Wausau, WI 54401 and the authorized representative established within the Community:

Marathon Electric UK 6F Thistleton Road Ind. Estate Market Overton Oakham, Rutland LE15 7PP UK

are committed to providing customers with products that comply with applicable regulations and international protocols to which they are subject, including the requirements of the European Parliament Directive on the Harmonization of the laws relating to electrical equipment designed for use within certain voltage limits (2014/35/EU).

Regal Beloit America declares that the following product(s), to which this declaration relates, are in conformity with the relevant sections of the EC standards listed below.

This statement supersedes any statements previously issued pertaining to the product(s) listed below and is subject to change without notice.

Model No: 256THFCD9026

(Model No. may contain prefix and/or suffix characters)

Catalog No: W553A

Rework No: N/A

### Directives:

Low Voltage Directive 2014/35/EU

Harmonized Standards Used:

EN 60034-1: 2010 (IEC 60034-1: 2010)

Michael A Logsdon

EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:

Michael A. Logsdon Vice President, Technology

vice Fresident, reciniolog

Created on 09/01/2022

Authorized Representative in the Community:

J. cerse

Julian Clark Marketing Engineer