PRODUCT INFORMATION PACKET



Model No: 445TTFCD6586 Catalog No: E647A

XRI®-SD Severe Duty Motor, 125 HP, 3 Ph, 60 Hz, 460 V, 1200 RPM, 445T Frame, TEFC



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Product Information Packet: Model No: 445TTFCD6586, Catalog No:E647A XRI®-SD Severe Duty Motor, 125 HP, 3 Ph, 60 Hz, 460 V, 1200 RPM, 445T Frame, TEFC



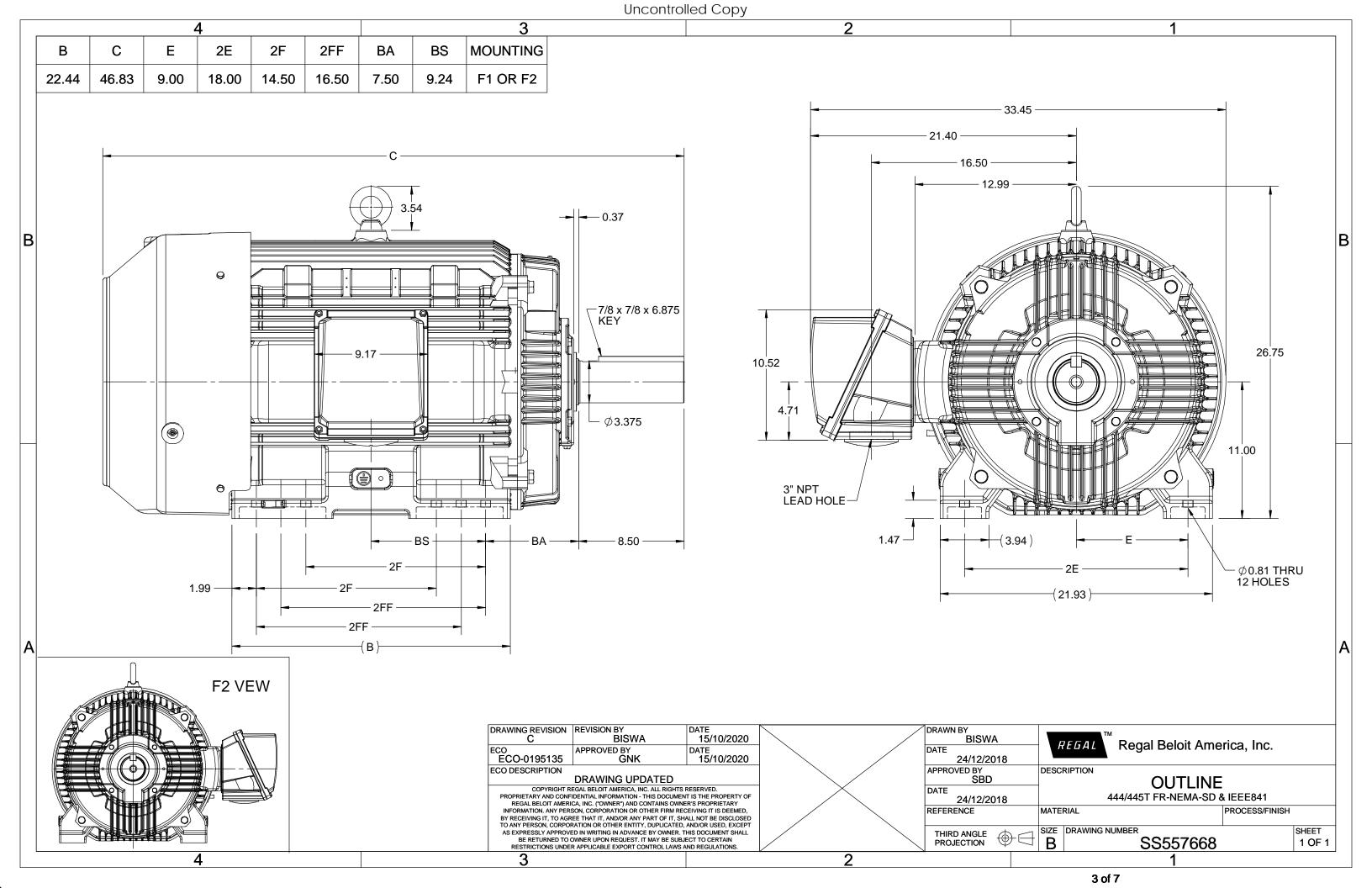
Nameplate Specifications

| Output HP | 125 Hp | Output KW | 93.0 kW |
|------------------------|----------------|----------------------------|-----------------------------|
| Frequency | 60 Hz | Voltage | 460 V |
| Current | 143.0 A | Speed | 1190 rpm |
| Service Factor | 1.15 | Phase | 3 |
| Efficiency | 95 % | Power Factor | 86 |
| Duty | Continuous | Insulation Class | н |
| Design Code | В | KVA Code | G |
| Frame | 445T | Enclosure | Totally Enclosed Fan Cooled |
| Thermal Protection | No Protection | Ambient Temperature | 40 °C |
| Drive End Bearing Size | 6319 | Opp Drive End Bearing Size | 6317 |
| UL | Listed | CSA | Υ |
| CE | Υ | IP Code | 55 |
| Hazardous Location | DIVISION 2 T2B | Number of Speeds | 1 |

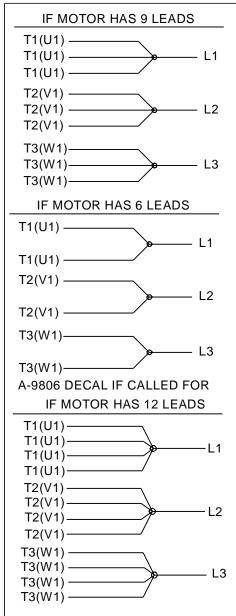
Technical Specifications

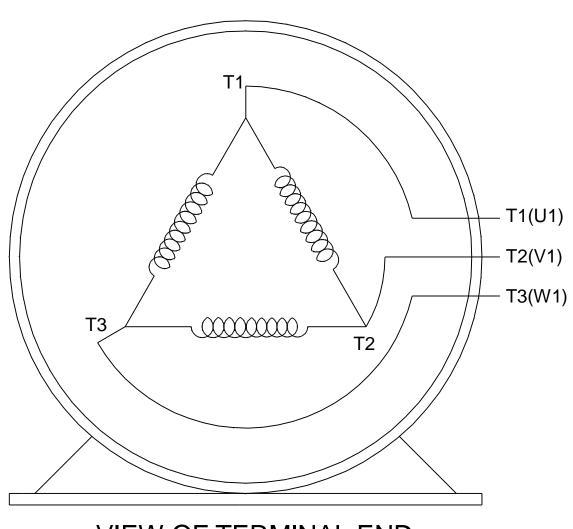
| Electrical Type | Squirrel Cage Inverter Rated | Starting Method | Line Or Inverter |
|-----------------------|------------------------------|--------------------|----------------------------|
| Poles | 6 | Rotation | Reversible |
| Resistance Main | .0353 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Cast Iron |
| Shaft Type | Т | Shaft Diameter | 3.375 in |
| Assembly/Box Mounting | F1/F2 CAPABLE | Inverter Load | CONSTANT 2:1/VARIABLE 10:1 |
| Outline Drawing | SS557668 | Connection Drawing | EE7300U |

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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

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| IOLLINA | TINGES ON | ILLUU | |
|---------|-----------|--------------|--------------|
| OTHER' | WISE SPE | CIFIED: | |
| DEC. | INCH | <u>mm</u> | <u>ANGLE</u> |
| .X | ±0.1 | [±2.5] | ±7' 30" |
| .XX | | [±0.51] | |
| XXX | ±0.005 | [±0.127] | |
| .XXXX | ±0.0005 | [±0.0127] | |
| REMOV | E BURRS | & BREAK S | HARP |
| EDGES: | .003/.015 | [.076/.381] | X 45° |
| CORNE | R FILLETS | S: R.02 [.51 |] |
| MACHIN | IED SURF | ACES: 200 | |
| | | INCH ∨ | mm 🗸 |
| mm SHO | OWN IN [E | BRACKETS] | |

TOLERANCES LINLESS

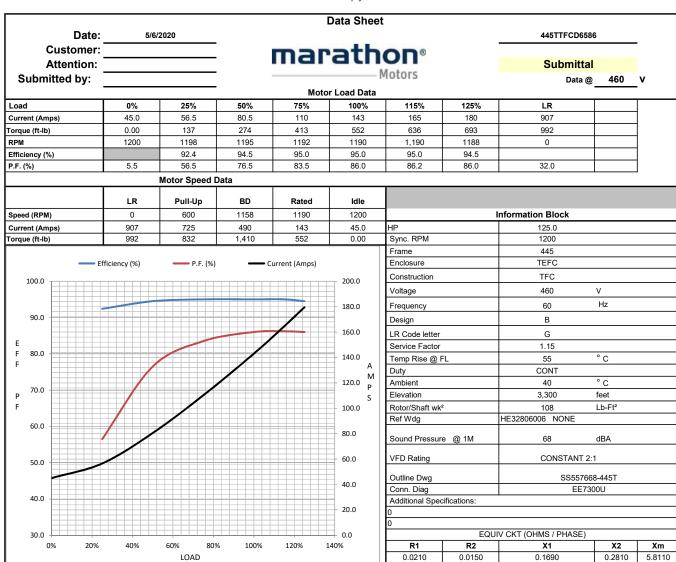
| | DRAWN BY DRS DATE 09-27-1996 | | REGAL Regal Beloit Ame | rica, Inc. | |
|---|---------------------------------|------|-----------------------------------|----------------|-----------------|
| | APPROVED BY GK DATE 09-30-1996 | DESC | CONN DIAGRAM-E 3Ø SINDLE VOLTA | | L |
| , | REFERENCE | MATE | RIAL | PROCESS/FINISH | |
| | THIRD ANGLE PROJECTION | SIZE | DRAWING NUMBER EE7300U | | SHEET 1 OF 1 |

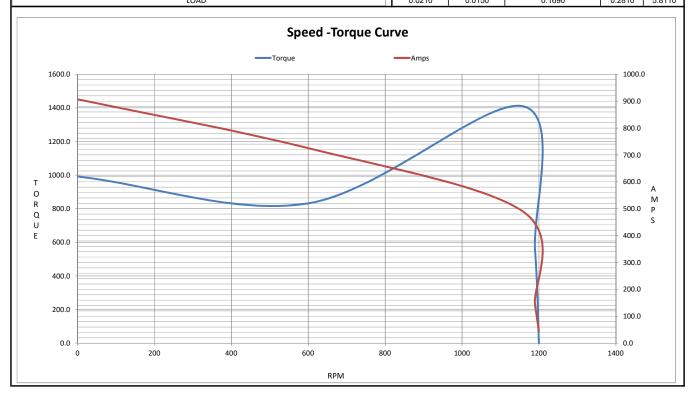


DATA VOLTS: 460

CERTIFICATION DATA SHEET

| | | | | | | CER | TIFICATION DATA S | HEET | | | | | |
|----------------------|----------------|-------------------|------------------|---------------|--|----------|---|--------------|----------------------|---------------------------|--------------------|-----------|------------|
| CONN. DIA | AGRAM: | EE7300U | | | | | F | REFERENC | E MODEL #: CAT #: | 445TTFCD658 | 66 647A | | - |
| OUTLINE: WINDING: | | SS557668-4 HE3 | 445T 32806006 | NONE | 1 | | | | MOUNTING: | F1/F2 CAPABI | .E | | |
| | | | | | TY | PICAL I | MOTOR PERFORMA | NCE D | ATA | | | | |
| HP | KW | SYNC | RPM | FL RF | M | | FRAME | ENCLOSURE | | TYPE KVA CO | | DDE | DESIGN |
| 125 | 93 | 120 | 00 | 1190 445T | | 445T | TEFC | | TFC G | | В | | |
| | | | | | | | | | | | | | |
| PH | HZ | VOL | | AMP | | <u> </u> | START TYPE | | UTY | INSL | S.F. | | ELEV. (Ft) |
| 3 | 60 | 460 | U | 143 | | | INE OR INVERTER | | ONT | Н | 1.15 | 40 | 3300 |
| | F.L. EFF | 95.0 | | 3/4 LD EFF | 95.0 | | 1/2 LD EFF | 94.5 | GTD EFF | | ELECT. T | /PE | |
| | F.L. PF | 86.0 | | 3/4 LD PF | 83.5 | | 1/2 LD PF | 76.5 | 94.5 | | SQ CAGE INV | RATED | |
| FI TO | ORQUE | - | LR AMPS | 1 | | I R | . TORQUE | | B.D. TORQ | IIF | F.L. RISE | (°C) | l |
| | LB-FT | | 907 | | 992 | LB-FT | 180% | 1,410 | LB-FT | 255% | 55 | | |
| | DE0011DE | 2011 | | | 141142 | 1 | | 0.55 | | | 20110110 | | |
| | RESSURE dBA | 77 d | ND dBA | ROTOR 108 | WK ² LB-FT ² | 1400 | MAX. LOAD WK ² LB-FT ² | SAFE S | SEC. | - | S/HOUR 2 | | LB. |
| - 00 | UDA | 11 | ири | , 106 | LD-1 1 | 1400 | LD-1 I | 25 | JEC. | | | 1901 | LB. |
| | | | | | | | PLEMENTAL INFORMA | | | | | | |
| DE BRAC | KET TYPE | ODE BRA | | MOUNT TYPE | | TOR | SEVERE DUTY | | ARDOUS CATION | DRIP COVER | SCREENS | PΔ | INT |
| STANDARD | | STANDARD RIGID | | | ORIENTATION SEVERE DUTY HORIZONTAL PREMIUM SEVERE DUTY | | | | NO NONE | | BLUE (EPOXY) | | |
| | | | | | | | | | | | | 1 | |
| DE | RINGS ODE | GREA | ASE | SHAFT 1 | YPE | | SPECIAL DE | SPEC | IAL ODE | SHAFT | MATERIAL | FRAME N | MATERIAL |
| BALL | BALL | POLYRE | EX FM | т | | NONE | | NONE | | 1045 HOT ROLLED (C-204) | | CAST IRON | |
| 6319 | 6317 | TOETIKE | | | | NONE | | HONE | | 1040 1101 1102222 (0-204) | | CASTINON | |
| | | | | | | | | | | | | SP | ACE |
| THERM | OSTATS | PROTEC | CTORS | WDG R | TD's | | BRG RTD's | THER | MISTORS | CON | ITROL | | TERS |
| NC | NE | NO | Т | NON | E | | NONE | N | ONE | FA | LSE | N | IA. |
| R1 (oh | ms/ph) | R2 (ohn | ns/ph) | X1 (ohm | s/ph) | | X2 (ohms/ph) | Xm (| ohms/ph) | VIBRATION | ON (in/sec) | FLO | DAT |
| 0.0 | 021 | 0.01 | 15 | 0.16 | 9 | | 0.281 | 5 | 5.811 | 0. | 080 | 0 | DE |
| * | | | | | | | | If Inverter | equale NONE | contact factors | for further inforn | nation | |
| N | | | | | | | | ii iiiveitei | | | CONSTANT 2:1 | | |
| 0 | | | | | | | | | INV. HP SP | EED RANGE: | NONE | | |
| T | | | | | | | | | | NONE | | | |
| E S | | | | | | | | | ENCODER: NONE | NUNE | | | |
| * | | | | | | | | | NONE | | | NONE | PPR |
| | | | | | | | | | BRAKE: | | | | |
| PREP | ARED BY: | | | | | | | | | ONE | NON | E | |
| | DATE: | 5/13/2 | 2020 | | | | | | FT-LB: VOLTAGE: | | NA ONE | | HZ: |
| FORM: 35 | 31 REV 4 | 2/27/06 | | | | | | | VOLTAGE: | N | JNE | | HZ: |
| | | ithout notice | e. | | | | | | | | | | |
| , | J | | | | | | | | | | | | |







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: 445TTFCD6586

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

Catalog No: E647A

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

Created on 09/01/2022

Vice President, Technology

Authorized Representative in the Community:

J. Cers

Julian Clark Marketing Engineer

(€ 22