## **PRODUCT INFORMATION PACKET**

Model No: 444TTFCD16581 Catalog No: E646B XRI®-SD Severe Duty Motor, 100 HP, 3 Ph, 60 Hz, 460 V, 1200 RPM, 444T Frame, TEFC



Regal and Marathon 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: 444TTFCD16581, Catalog No:E646B XRI®-SD Severe Duty Motor, 100 HP, 3 Ph, 60 Hz, 460 V, 1200 RPM, 444T Frame, TEFC

# marathon®

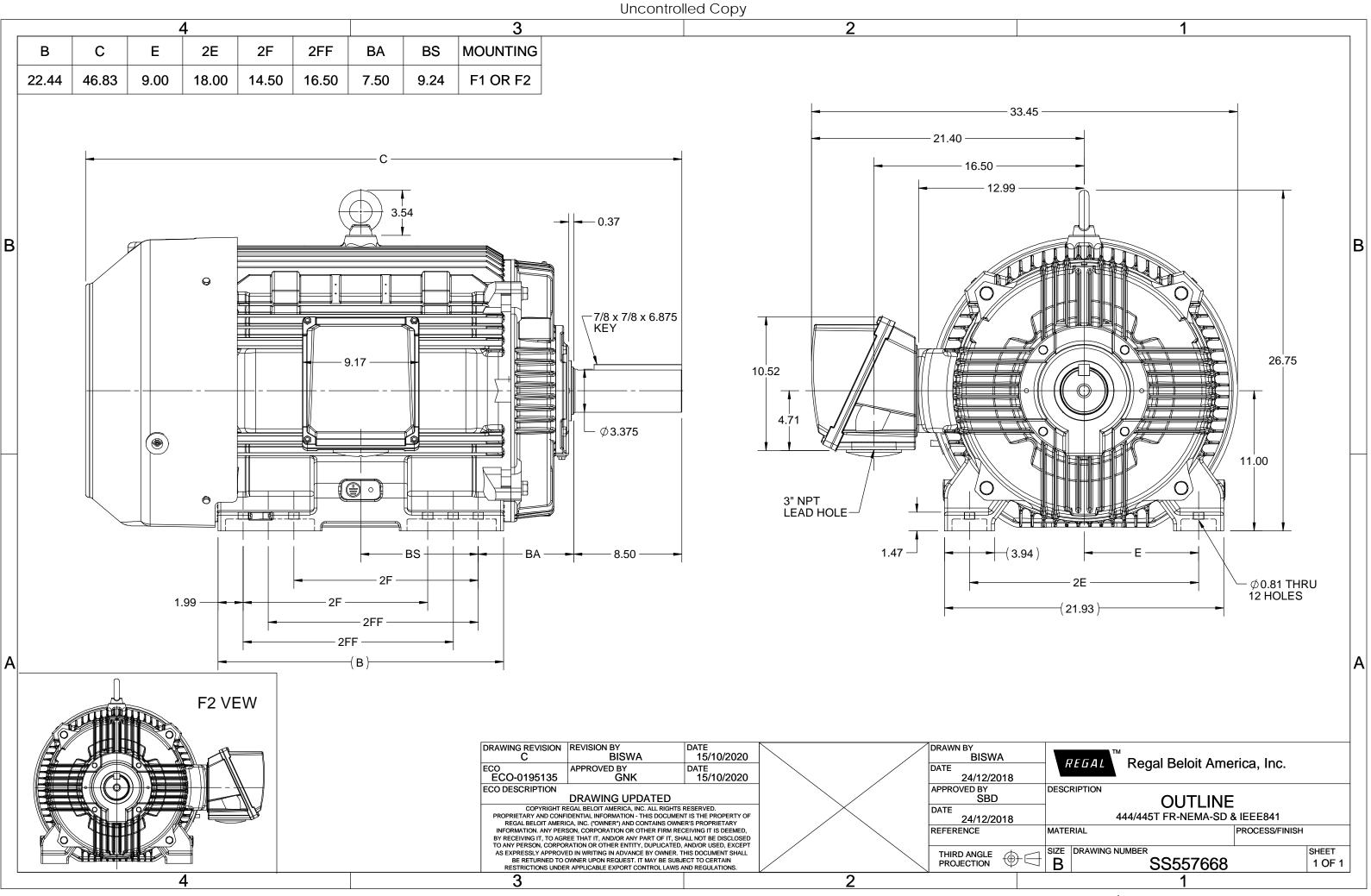
#### Nameplate Specifications

Output HP	100 Hp	Output KW	75.0 kW
Frequency	60 Hz	Voltage	460 V
Current	115.0 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	444T	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	Y
CE	Y	IP Code	55
Hazardous Location	DIVISION 2 T2B	Number of Speeds	1

### **Technical Specifications**

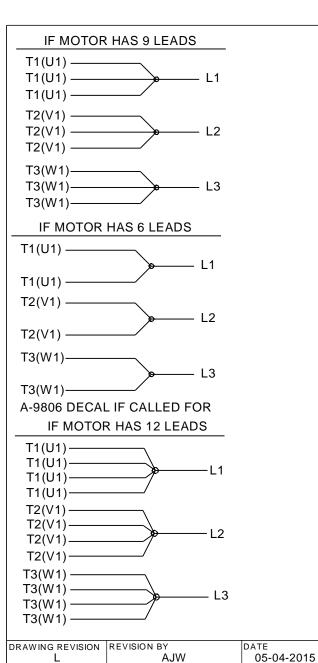
Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter		
Poles	6	Rotation	Reversible		
Resistance Main	.0444 Ohms	Mounting	Rigid Base		
Motor Orientation Horizontal		Drive End Bearing	Ball		
Opp Drive End Bearing	Ball	Frame Material	Cast Iron		
Shaft Type	Т	Shaft Diameter	3.375 in		
Assembly/Box Mounting	Assembly/Box Mounting F1/F2 CAPABLE		CONSTANT 2:1		
Outline Drawing	SS557668	Connection Drawing	EE7300U		

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:11/29/2022



3 of 7

Uncontrolled Copy



APPROVED BY

EWH

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

DATE

05-05-2015

DEC.

.Х

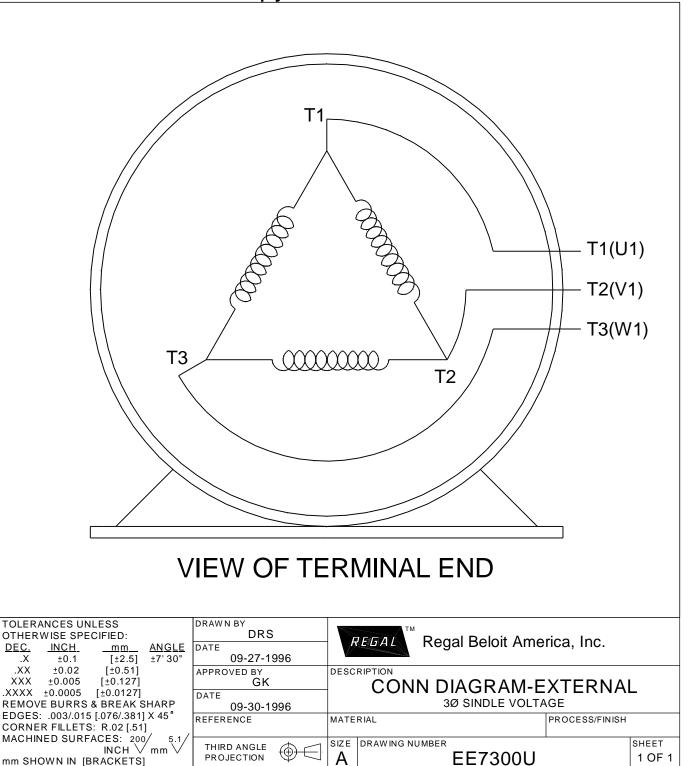
.XX

XXX

ECO

ECO-0077067

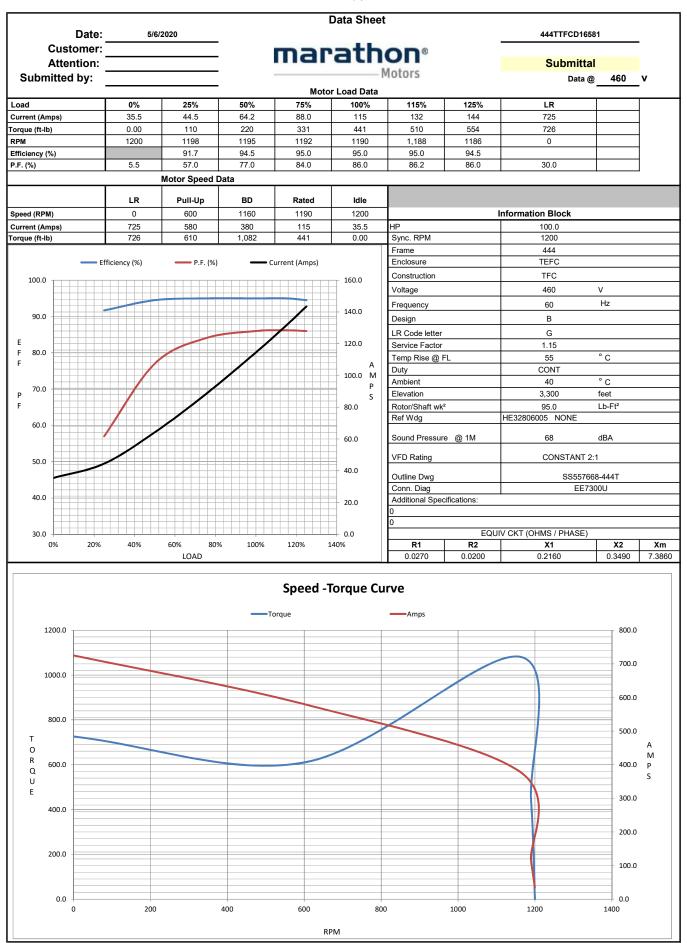
ECO DESCRIPTION



Uncontrolled Copy

				ma	ra	Motors				DATA VOLTS:	460	
					CER	TIFICATION DATA S	HEET					
CONN. DIA		EE7300U				R	EFERENC	CE MODEL #: CAT #:	444TTFCD165 E6	81 46B		-
DUTLINE: WINDING:		SS557668-444T HE32806005	NONE	1				MOUNTING:	F1/F2 CAPABL	.E		
				TY	PICAL	MOTOR PERFORMA	NCE D	ΑΤΑ				
HP	ĸw	SYNC RPM	FL RI	РМ		FRAME	ENC	LOSURE	TYPE	KVA CC	DE DESIGN	
100	75	1200	0 1190			444T	TEFC		TFC	G	G B	
PH	HZ	VOLTS	AMP	s		START TYPE	r	DUTY	INSL	S.F.	AMB (° C)	FLEV (
3	60	460	115		l	LINE OR INVERTER		CONT	Н	1.15	40	3300
	F.L. EFF F.L. PF	95.0 86.0	3/4 LD EFF 3/4 LD PF	95.0 84.0		1/2 LD EFF 1/2 LD PF	94.5 77.0	<b>GTD EFF</b> 94.5		ELECT. TY SQ CAGE INV		
	1.6.71	00.0	J/4 LD F1	04.0		1/2 20 11	11.0	34.5		OQ CAOL INV		
F.L. TC	F.L. TORQUE LR AMPS			L.R. TORQUE		B.D. TORQUE		UE	F.L. RISE (° C)			
441	LB-FT	725		726	LB-FT	165%	1,082	LB-FT	245%	55		
	RESSURE	SOUND	ROTOR	W/K2		MAX. LOAD WK <sup>2</sup>	CAFE C	TALL TIME	CT ADT	S/HOUR	40	ROX.
	dBA	77 dBA		LB-FT <sup>2</sup>	1400	LB-FT <sup>2</sup>	25	SEC.		2		LB.
			,						1			1
		ODE BRACKET	MOUNT	MOT	TOR HAZARDOUS							
	KET TYPE	TYPE	TYPE	ORIENT		SEVERE DUTY	-	CATION	DRIP COVER	SCREENS	PAINT BLUE (EPOXY)	
STAN	DARD	STANDARD	RIGID	HORIZ	UNTAL	PREMIUM SEVERE DUTY	DIVIS	ION 2 T2B	NO	NONE	BLUE (	EPOXY)
BEAR	RINGS	GREASE	SHAFT				005		SHAFT	MATERIAL		
DE	ODE	GREASE	SHAFT	ITPE	SPECIAL DE		SPECIAL ODE		SHAFT MATERIAL		FRAME MATERIA	
BALL	BALL	POLYREX EM	т			NONE	NONE		1045 HOT ROLLED (C-204)		CAST IRON	
6319	6317											
											SP	ACE
THERMOSTATS		PROTECTORS	WDG R	-	BRG RTD's		THERMISTORS		CONTROL		HEATERS	
NO	NE	NOT	NON	E		NONE	Ν	IONE	FA	LSE	١	NA
R1 (oh	ms/ph)	R2 (ohms/ph)	X1 (ohm	s/nh)		X2 (ohms/ph)	Xm (	ohms/ph)	VIBRATI	ON (in/sec)	FL	ΟΑΤ
	)27	0.02	0.21			0.349		7.386		080		DE
*							If Inverter			for further inform		
N O									ER TORQUE: PEED RANGE:	CONSTANT 2:1 NONE		
т									LLD IGHUL.	=		
E								ENCODER:	NONE			
s								NONE				
. H								NONE	NONE		NONE	PPR
*								BRAKE:	INUNE			
*									ONE	NON	F	
* PREP/	ARED BY: _ DATE:	5/13/2020							ONE	NON	E	
	-							N	1		E	ı

#### Uncontrolled Copy





## **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: 444TTFCD16581

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

Catalog No : E646B

Rework No : N/A

Directives :

Low Voltage Directive 2014/35/EU

Harmonized Standards Used :

EN 60034-1: 2010 (IEC 60034-1: 2010) EN 60034-5: 2001/A1:2007 (IEC 60034-5: 2000/A1:2006)

Authorized Representative:

Michael A Logsdon

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

(€ 22

Authorized Representative in the Community:

Julian Clark Marketing Engineer