## PRODUCT INFORMATION PACKET



Model No: 286TTFCD6876 Catalog No: E486A

XRI®-SD Severe Duty Motor, 20 HP, 3 Ph, 60 Hz, 230/460 V, 1200 RPM, 286T Frame, TEFC



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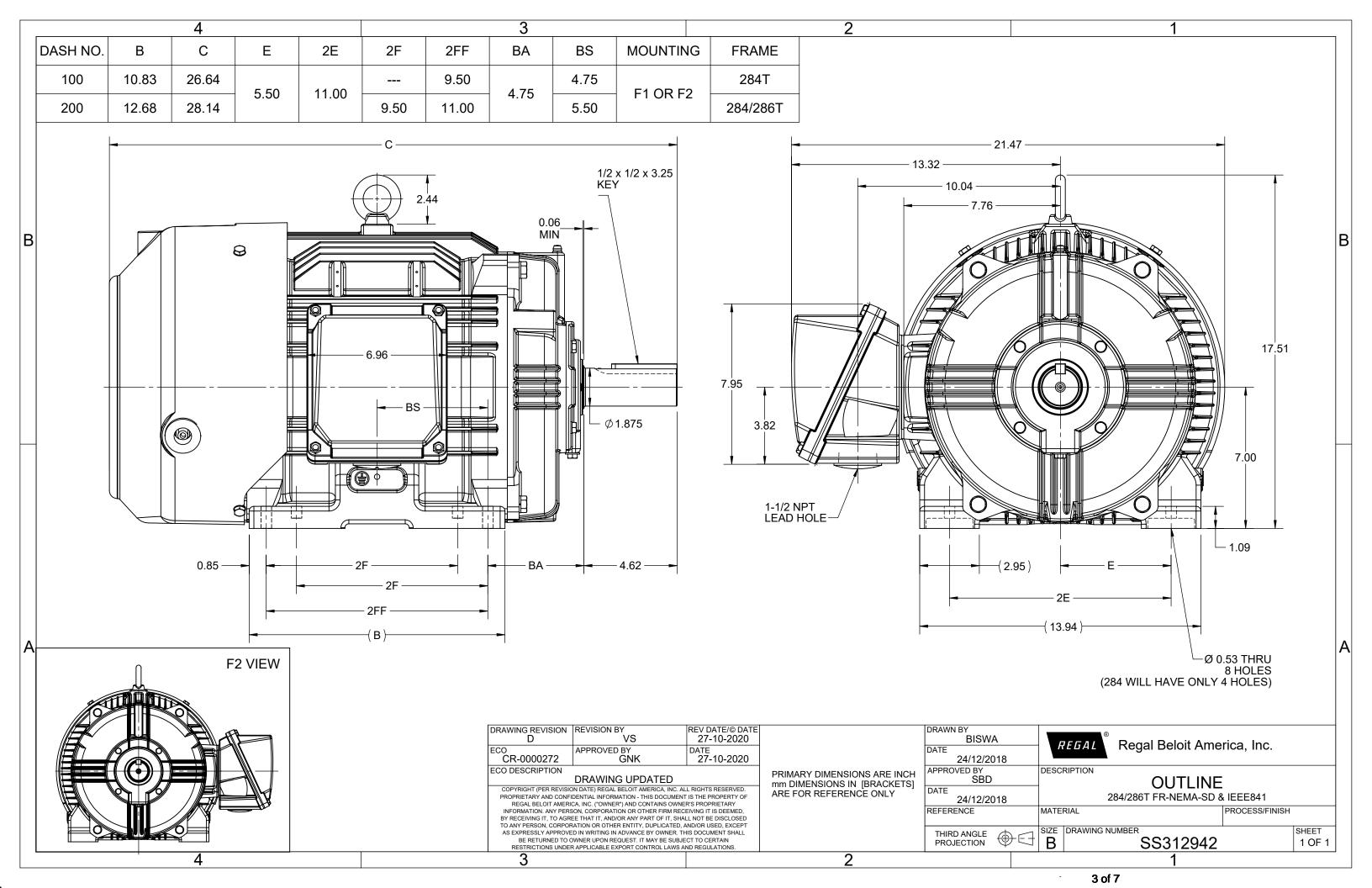
## Nameplate Specifications

Phase	3	Output HP	20 Hp			
Output KW	14.9 kW	Voltage	230/460 V			
Speed	1180 rpm	Service Factor	1.15			
Frame	286T	Enclosure	Totally Enclosed Fan Cooled			
Thermal Protection	No Protection	Efficiency	91.7 %			
Ambient Temperature	40 °C	Frequency	60 Hz			
Current	52.0/26.0 A	Power Factor	79			
Duty	Continuous	Insulation Class	н			
Design Code	В	KVA Code	G			
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6211			
UL	Listed	CSA	Υ			
CE	Υ	IP Code	55			
Number of Speeds	1	Hazardous Location	DIVISION 2 T2B			

## **Technical Specifications**

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter			
Poles	6	Rotation	Reversible			
Resistance Main	.5617 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	1.875 in			
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	CONSTANT 10:1/VARIABLE 10:1			
Connection Drawing	EE7308	Outline Drawing	SS312942-200			

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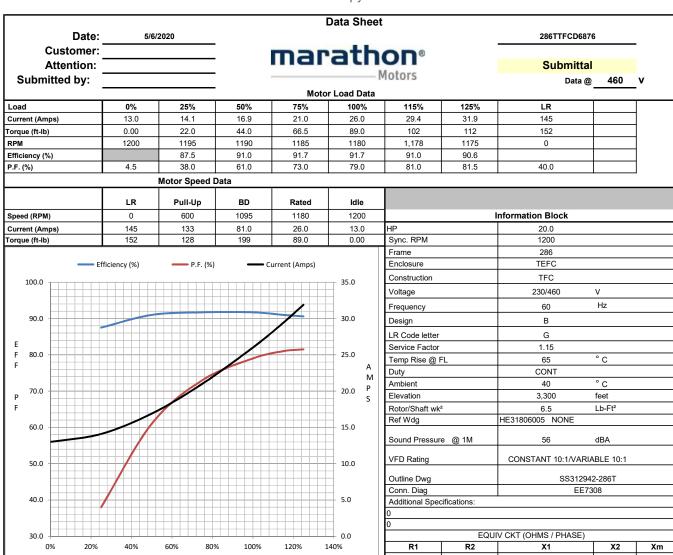


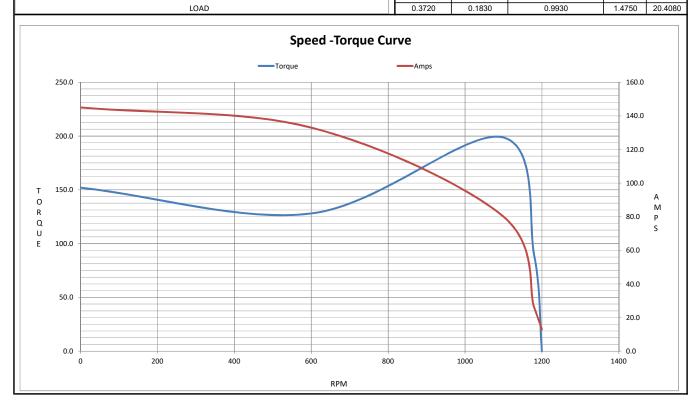


DATA VOLTS: 460

#### **CERTIFICATION DATA SHEET**

CONN. DIAGRAM: EE7308 OUTLINE: SS312942-286T WINDING: HE31806005 NONE 5						PICAL I	REFERENCE MODEL #: 286TTFCD6876 CAT #: E486A  MOUNTING: F1/F2 CAPABLE  ICAL MOTOR PERFORMANCE DATA						
HP	кw	SYNO	SYNC RPM FL RI				ENCLOSURE		TYPE	KVA CO	DE	DESIGN	
20	14.9	1200		1180			286T	TEFC		TFC	G		В
PH	HZ	VO	VOLTS AMP		•	START TYPE		DUTY		INSL	S.F.	AMB (° C)	ELEV (
3	60		/460	52/26		LINE OR INVERTER		CONT		H	1.15	40	3300
	F.L. EFF	91.7 <b>3/4 LD EFF</b>		91.7	91.7 <b>1/2 LD EFF</b>		91.0 <b>GTD EFF</b>		ELECT. T		YPE		
	F.L. PF	79.0		3/4 LD PF	73.0		1/2 LD PF	61.0	91.0		SQ CAGE INV		
EI T	ORQUE		LR AMPS			1.0	. TORQUE		B.D. TORQ	IIE	F.L. RISE	(° C)	
	LB-FT		145		152	LB-FT	171%	199	LB-FT	224%	65	( 0)	
SOUND F	RESSURE	so	UND	ROTOR	WK²		MAX. LOAD WK <sup>2</sup>	SAFE STALL TIME STA		START	RTS/HOUR AF		ROX.
56	dBA	65	dBA		LB-FT <sup>2</sup>	250	LB-FT <sup>2</sup>	20	SEC.		2	479	LB.
STAN			<b>(PE</b> IDARD	RIGID	HORIZ	NTATION SEVERE DUTY LOCATION IZONTAL PREMIUM SEVERE DUTY DIVISION 2 T2B		ON 2 T2B	NO NO	NONE	PAINT BLUE (EPOXY)		
DE	ODE	GREASE		SHAFT TYPE		SPECIAL DE		SPECIAL ODE		SHAFT MATERIAL		FRAME MATERIAL	
BALL 6311	BALL 6211	POLYREX EM T			NONE		NONE 1144 STRES		SPROOF (C-223) CAST		IRON		
THERMOSTATS		PROTE	CTORS	WDG R	TD's	BRG RTD's		THER	MISTORS	CONTROL		SPACE HEATERS	
N	ONE	N	OT	NON	E	NONE		NONE F.		ALSE NA		IA.	
R1 (ohms/ph) R2 (ohms/p			X1 (ohm		X2 (ohms/ph) Xm (ohms			VIBRATION (in/sec)		FLOAT			
0.	372	0.	183	0.99	3		1.475	2	0.408	0.	080	0	DE
* N O T	If Inverter equals NONE, contact factor INVERTER TORQUE INV. HP SPEED RANGE							ER TORQUE:	CONSTANT 10:		≣ 10:1		
E S *							ENCODER: NONE  NONE  NONE  NONE  NONE  NONE  NONE  NONE					PPR	
PREF	PARED BY: DATE:	5/13	/2020						BRAKE: NO FT-LB: VOLTAGE:	ONE 1	NONE NA DNE	Ē	н







# **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: 286TTFCD6876

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

Catalog No : E486A

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:

Authorized Representative in the Community:

J. cerse

Michael A. Logsdon Vice President, Technology

Created on 09/01/2022

Julian Clark Marketing Engineer

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