## PRODUCT INFORMATION PACKET



Model No: 286THFCD8086
Catalog No: Y582A
Blue Max® Inverter Duty Encoder Motor, 20 HP, 3 Ph, 60 Hz, 230/460 V, 1200 RPM, 286TC Frame, TEBC-AXIAL



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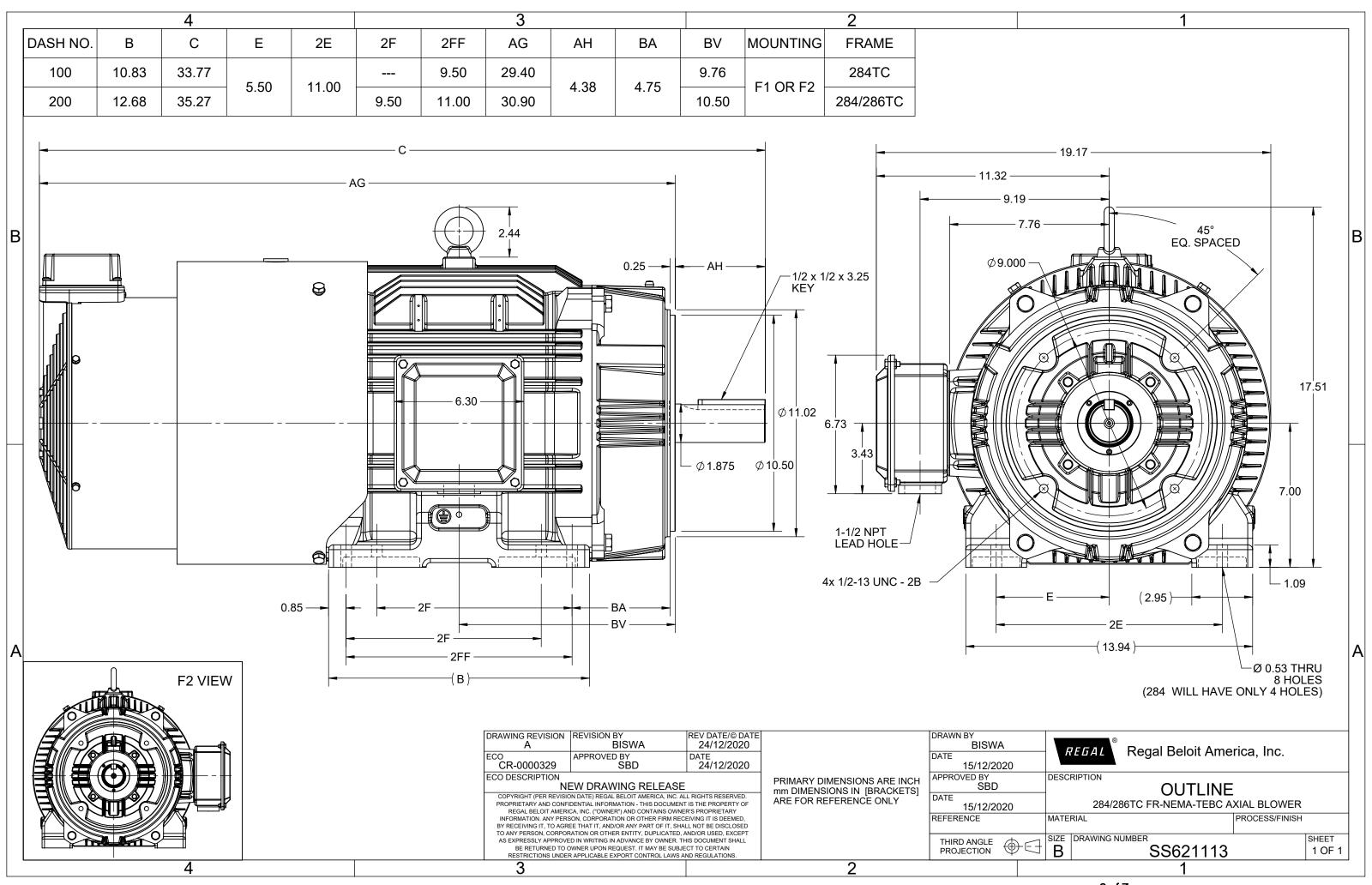
### Nameplate Specifications

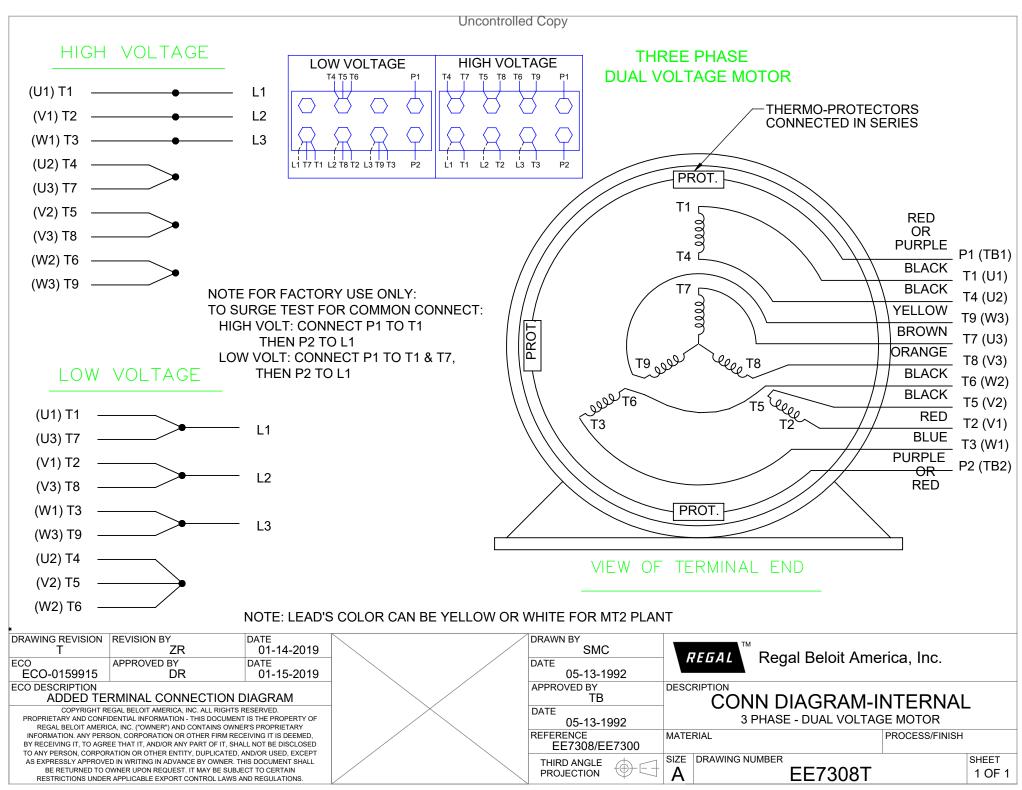
Output HP	20 Hp	Output KW	14.9 kW
Frequency	60 Hz	Voltage	230/460 V
Current	51.0/25.5 A	Speed	1180 rpm
Service Factor	1	Phase	3
Efficiency	91.4 %	Power Factor	77
Duty	Continuous	Insulation Class	Н
Design Code	INV	KVA Code	J
Frame	286TC	Enclosure	Totally Enclosed Blower cooled - Axial
Thermal Protection	Thermostat	Ambient Temperature	40 °C
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6211
UL	Recognized	CSA	Υ
CE	Υ	IP Code	55
Number of Speeds	1		
	·	·	·

### **Technical Specifications**

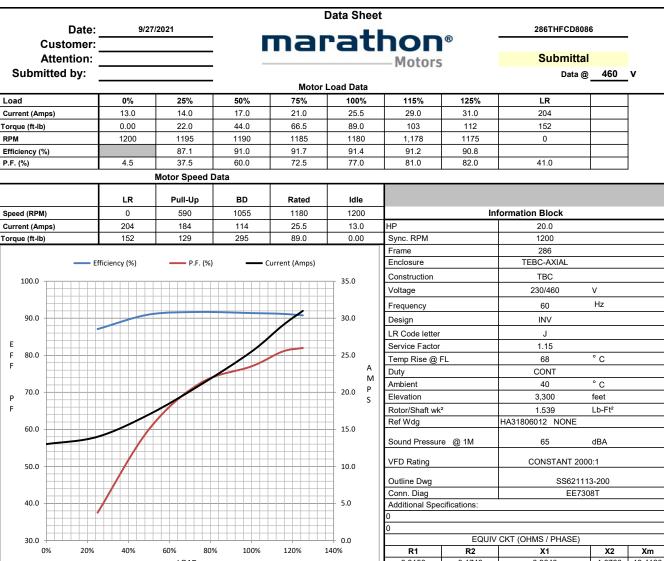
Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only		
Poles	6	Rotation	Reversible		
Resistance Main	.505 Ohms	Mounting	Rigid Base		
Motor Orientation	Horizontal	Drive End Bearing	Ball		
Opp Drive End Bearing	Ball	Frame Material	Cast Iron		
Shaft Type	Т	Shaft Diameter	1.875 in		
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	CONSTANT 2000:1		
Outline Drawing	SS621113-200	Connection Drawing	EE7308T		

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					P.O. BOX 8003							
					WAUSAU, WI 54401-8003							
marathon®								PH. 715-6	75-3311			
						Motors						
						1-101013		DAT	A VOLTS:	460		
CERTIFICATION DATA SHEET												
сизтом	CUSTOMER:						CUSTO	MER P.O. #:				
ORDER #			F			REFERENCE MODEL #:						
CONN. DIAGRAM:		EE7308T				CAT #		: Y582A				
OUTLINE		SS621113-200					CUSTOMER PART #:					
WINDING	i:	HA31806012	NONE	2				MOUNTING:	F1/F2 CAP	ABLE		
SPEED: TYPICAL MOTOR PERFORMANCE DATA												
НР	ĸw	SYNC RPM	FL	L RPM FRAME			ENCI	OSURE	TYPE	KVA CODE	KVA CODE	
20	14.9	1200	1	180		286TC	TEBC-AXIAL		TBC	J		INV
PH	HZ	VOLTS	А	MPS		START TYPE	D	UTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	51	1/25.5		INVERTER ONLY	c	ONT	Н	1.15	40	3300
	F.L. EFF F.L. PF		3/4 LD EFF 3/4 LD PF			1/2 LD EFF 1/2 LD PF	91.0	GTD EFF		ELECT. SQ CAGE I		
	F.L. PF	77.0	3/4 LD PF	72.5		1/2 LD PF	60.0	90.2		SQ CAGE I	NV DUTY	
F.L. TORQUE LR AMPS @ 460 V		L.R. TORQUE		B.D. TORQUE		IE F.L. RISE (° C)						
	LB-FT	204	400 V	152 L	LB-FT	171%		LB-FT	331%	68	1	
SOUND	PRESSURE @ 3											
65	FT. SOUND POWER ROTOR WK <sup>2</sup>		LB-FT <sup>2</sup>	50	MAX. LOAD WK <sup>2</sup> LB-FT <sup>2</sup>	SAFE STALL TIME 20 SEC.		STARTS/HOUR 2		APROX. MOTOR WGT		
65	dBA	74 dBA	1.539	LD-F1	50	LD-F1	20	SEC.		2	435	LD.
					*** SL	JPPLEMENTAL INFORMA	TION ***					
			MOUNT				HAZARDOUS DRIP					
	RACKET TYPE	ODE BRACKET TYPE	TYPE	MOTOR ORIEN			LOCATION		COVER SCREENS		PAINT	
	C-FACE	ENCODER	RIGID	HORIZON'	ONTAL NO		NONE		NO NONE		BLUE (ENAMEL)	
<b>—</b>	BEARINGS								T			
DE	ODE	GREASE	SHAF	FT TYPE	SPECIAL DE		SPECIAL ODE		SHAFT MATERIAL		FRAME MATERIAL	
BALL	BALL	POLYREX EM		т	NONE		NONE		4045 HOT POLLED (C 204)		CASTIDON	
6311	6211	POLTREXEM		'		NONE	NONE 1045 HOT ROLLED (C-204) CAST IRON					CASTIRON
											_	
l		PROTECTORS	wo	D. D.T.D.L.		DDG DTDL	THE	ozono		CONTROL	SPAC	E HEATERS
	TATS (N/C)	PROTECTORS NOT		G RTD's BRG RTD's  IONE NONE		THERMISTORS NONE		CONTROL FALSE		_	NA	
10	TATS (NC)	NOT	IN	ONE		NONE	IN	ONE	l	PALSE	1	IVA
R1	l (ohms/ph)	R2 (ohms/ph)	X1 (o	hms/ph) X2 (ohms/ph)		Xm (ohms/ph)		V	VIBRATION (in/sec)		FLOAT	
	0.315	0.174		964 1.078			9.412	0.150		ODE		
*										CONCTANT 2000-4		
N O						INVERTER TORQUE: CONSTANT 2000:1 INV. HP SPEED RANGE: 1.5 X BASE SPEED						
Ť							IIV	IV. NF SFEE	D MANGE:			
E							ENCODER: NONE					
S					NONE							
•					NONE NONE PPR				PPR			
				BRAKE: NONE								
1	PREPARED BY:				NONE NONE							
1	DATE: 9/27/2021					FT-LB: NA						
EODM: 2	FORM: 3531 REV 4 2/27/06				-	VOLTAGE: NONE HZ: UL: V-INS, CONST, OVERHEAT PRT DEV UL REC						
FURM: 3	ວວ i KEV_4	2/27/06					UL:	V-INO, CON	JI, UVERHI	ALFRIDEV UL REC		







# **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: 286THFCD8086

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

Catalog No: Y582A

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

Created on 09/01/2022

Authorized Representative in the Community:

J. cerse

Julian Clark Marketing Engineer

(€ 22