## PRODUCT INFORMATION PACKET



Model No: 286THFCD8038

Catalog No: Y512A

Blue Max® Inverter Duty Encoder Motor, 30 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 286TC Frame, TEBC-AXIAL



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Product Information Packet: Model No: 286THFCD8038, Catalog No:Y512A Blue Max® Inverter Duty Encoder Motor, 30 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 286TC Frame, TEBC-AXIAL



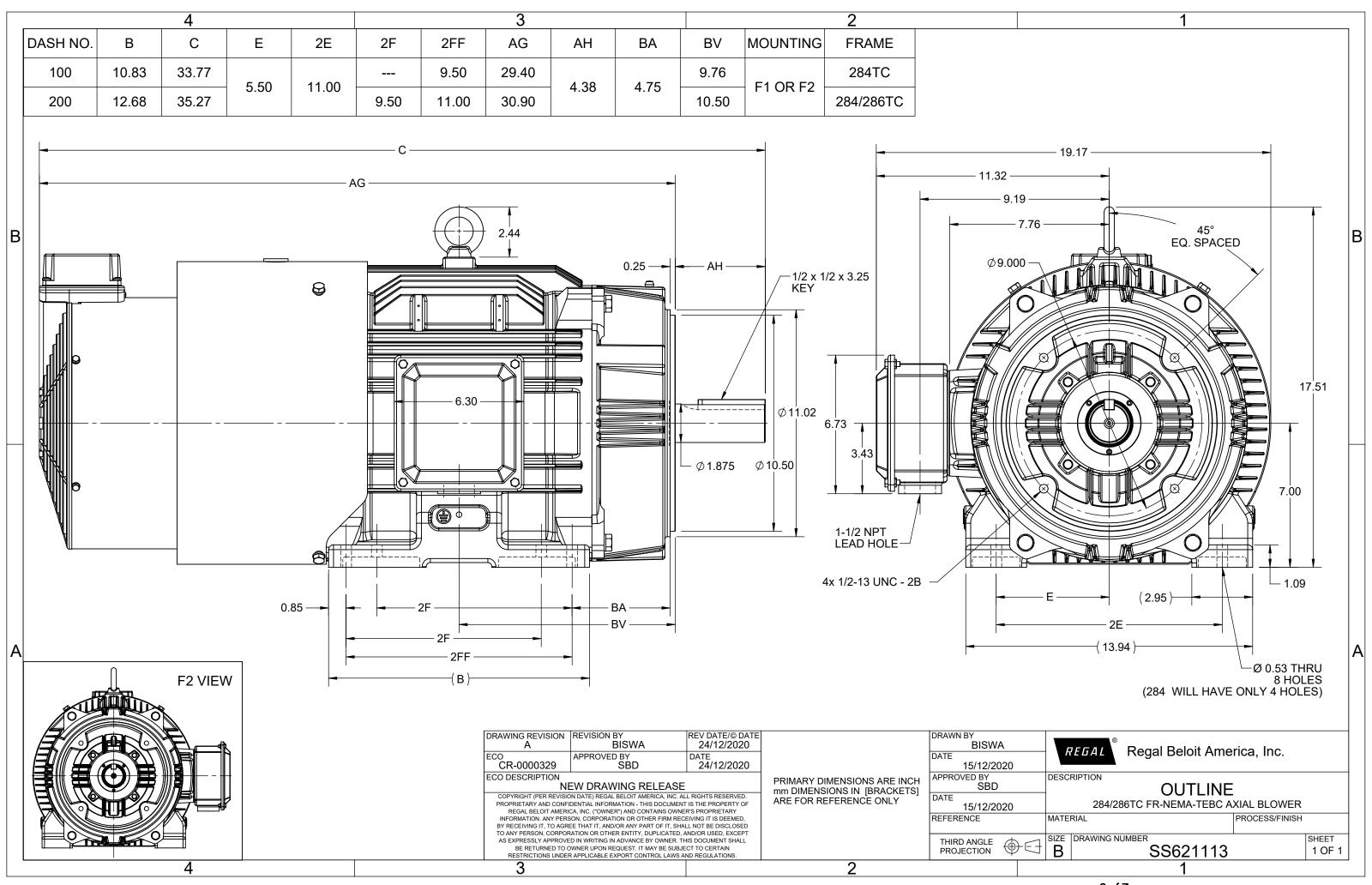
### Nameplate Specifications

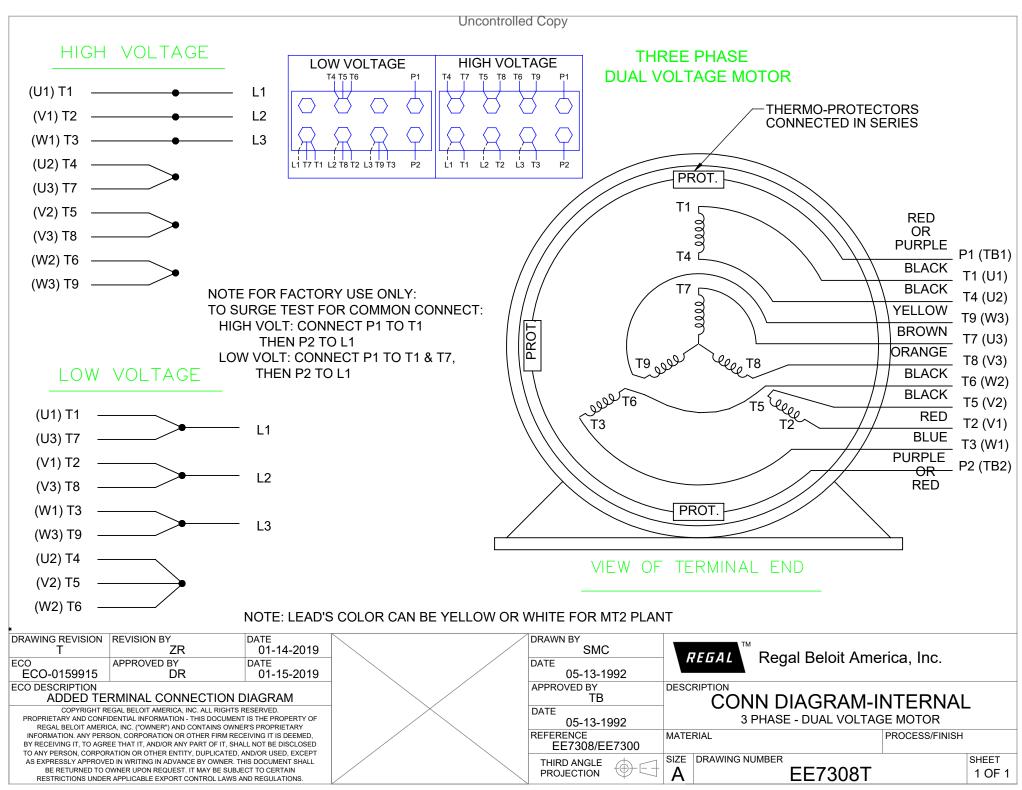
Output HP	30 Hp	Output KW	22.4 kW
Frequency	60 Hz	Voltage	230/460 V
Current	70.5/35.5 A	Speed	1776 rpm
Service Factor	1	Phase	3
Efficiency	93.6 %	Power Factor	85
Duty	Continuous	Insulation Class	Н
Design Code	INV	KVA Code	К
Frame	286TC	Enclosure	Totally Enclosed Blower cooled - Axial
Thermal Protection	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**

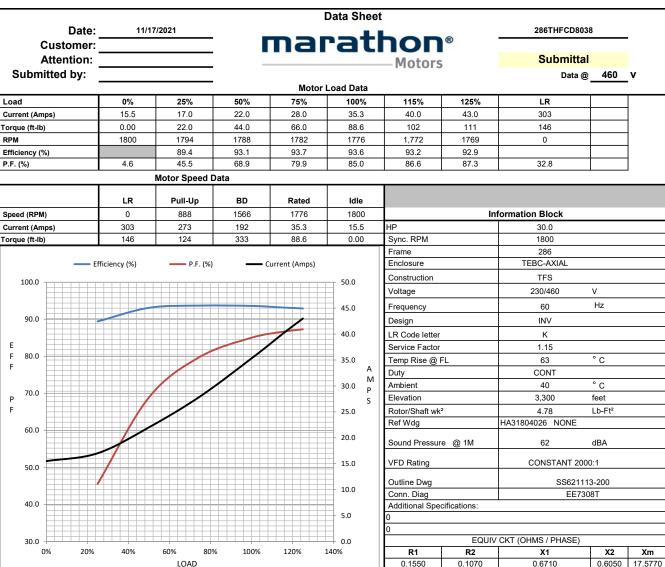
Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only		
Poles	4	Rotation	Reversible		
Resistance Main	.248 Ohms	Mounting	Rigid Base		
Motor Orientation	Horizontal	Drive End Bearing	Ball		
Opp Drive End Bearing	Ball	Frame Material	Cast Iron		
Shaft Type	Т	Shaft Diameter	1.875 in		
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	CONSTANT 2000:1		
Connection Drawing	EE7308T	Outline Drawing	SS621113-200		

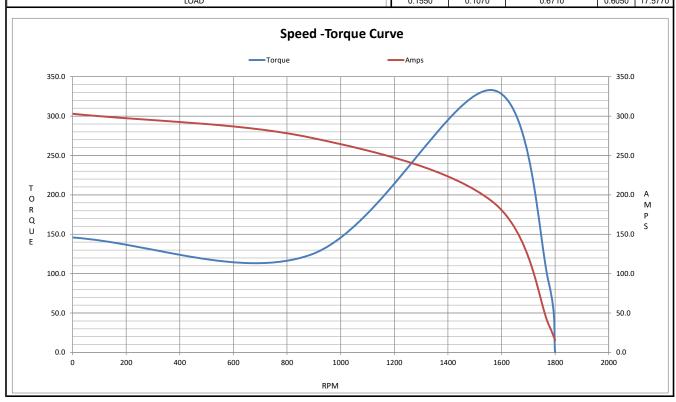
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					P.O. BOX 8003							
					WAUSAU, WI 54401-8003							
marathon®								PH. 715-6	75-3311			
						Motors						
						1-101013		DAT	A VOLTS:	460		
	CERTIFICATION DATA SHEET											
CUSTOM	CUSTOMER:					CUSTO	MER P.O. #:					
ORDER #						REFERENCE MODEL #:						
CONN. DIAGRAM:		EE7308T				CAT #						
OUTLINE:		SS621113-200					CUSTOMER PART #					
WINDING	:	HA31804026	NONE	2				MOUNTING:	F1/F2 CAP	ABLE		
SPEED:				TY	YPICAL	MOTOR PERFORMA	NCE DA	ATA				
НР	KW	SYNC RPM	FL	. RPM		FRAME	ENCLOSURE TYPE KVA CODE			DESIGN		
30	22.4	1800	1	776	286TC TEBC-AXIAL		J-AXIAL	TFS	K		INV	
PH	HZ	VOLTS	Α.	MPS		START TYPE		UTY	INSL	S.F.	AMB	ELEV.
3	60	230/460		5/35.5		INVERTER ONLY		ONT	H	1.15	40	3300
	-	200, 100		.,								
	F.L. EFF		3/4 LD EFF	93.7		1/2 LD EFF	93.1	GTD EFF		ELECT.		
	F.L. PF	85.0	3/4 LD PF	79.9		1/2 LD PF	68.9	93.0		SQ CAGE I	NV DUTY	
									_			
	L. TORQUE LB-FT	LR AMPS @	0 460 V		L.R. LB-FT	TORQUE 165%	B.D. TORQUE					
00.0	LD-FI	303		140 I	LD-FI	100%	333	LD-FI	3/0%	63		
SOUND	PRESSURE @ 3											
	FT. SOUND POWER ROTOR WK <sup>2</sup>			MAX. LOAD WK <sup>2</sup>		SAFE STALL TIME		STARTS/HOUR		APROX.	MOTOR WGT	
62	dBA	71 <b>dBA</b>	4.78	LB-FT <sup>2</sup>	40	LB-FT <sup>2</sup>	25	SEC.		2	452	LB.
					*** 61	JPPLEMENTAL INFORMA	TION ***					
			MOUNT		30	PPLEIMENTAL INFORMA		RDOUS	DRIP			
DE BE	RACKET TYPE	ODE BRACKET TYPE	TYPE	MOTOR ORIEN	ENTATION SEVERE DUTY		LOCATION		COVER SCREENS		PAINT	
	C-FACE	ENCODER	RIGID	HORIZON			NONE		NO NONE		BLUE (ENAMEL)	
	EARINGS	GREASE	SHAF	FT TYPE	SPECIAL DE		SPECIAL ODE		SHAFT MATERIAL		FRAME MATERIAL	
DE BALL	ODE BALL							+				
6311	6211	POLYREX EM		Т		NONE	NONE		1045 HOT ROLLED (C-204)		CAST IRON	
	02.11								1			
											SPAC	E HEATERS
	RMOSTATS	PROTECTORS		G RTD's BRG RTD's		THERMISTORS		CONTROL		J. A.		
TS	TATS (N/C)	NOT	N	NONE NONE		NONE		FALSE			NA	
- D4	(-b	R2 (ohms/ph)	V4./-	V0 (-1(-1-)		Xm (ohms/ph)		VIBRATION (in/sec)		FLOAT		
R1	(ohms/ph) 0.155	0.107		hms/ph) X2 (ohms/ph) .671 0.605			nms/pn) 7.577	0.150		ODE		
	0.100	0.107		.071		0.000		.511		0.130		ODE
*												
N							INVERTER TORQUE: CONSTANT 2000:1					
0							INV. HP SPEED RANGE: 1.5 X BASE SPEED					
T _												
E					ENCODER: NONE							
S					NONE NONE PPR				DDD			
								BRAKE:	NONE		INOINE	
PREPARED BY:					NONE NONE							
DATE: 11/17/2021				FT-LB: NA								
1					VOLTAGE: NONE HZ:							
FORM: 3	FORM: 3531 REV_4 2/27/06					UL: V-INS, CONST, OVERHEAT PRT DEV 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: 286THFCD8038

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

Catalog No: Y512A

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