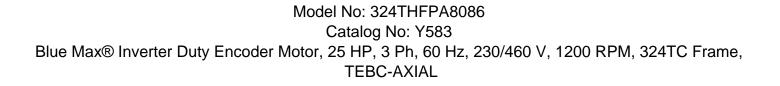
PRODUCT INFORMATION PACKET





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marathon®



Product Information Packet: Model No: 324THFPA8086, Catalog No:Y583 Blue Max® Inverter Duty Encoder Motor, 25 HP, 3 Ph, 60 Hz, 230/460 V, 1200 RPM, 324TC Frame, TEBC-AXIAL

marathon®

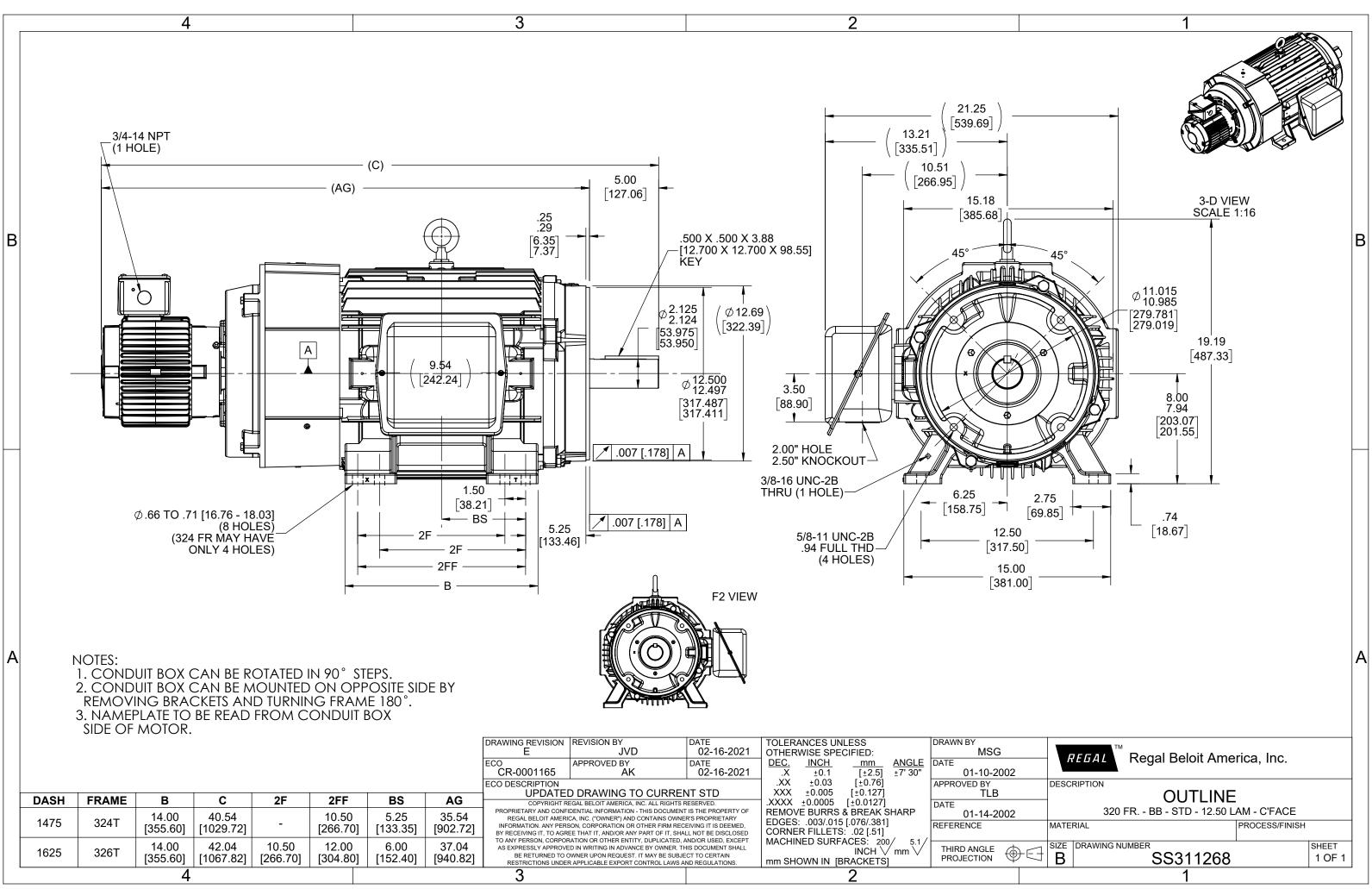
Nameplate Specifications

Output HP	25 Hp	Output KW	18.7 kW
Frequency	60 Hz	Voltage	230/460 V
Current	67.0/33.5 A	Speed	1170 rpm
Service Factor	1	Phase	3
Efficiency	91.7 %	Power Factor	76
Duty	Continuous	Insulation Class	н
Design Code	INV	KVA Code	F
Frame	324TC	Enclosure	Totally Enclosed Blower cooled - Axial
Thermal Protection	Thermostat	Ambient Temperature	40 °C
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6311
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

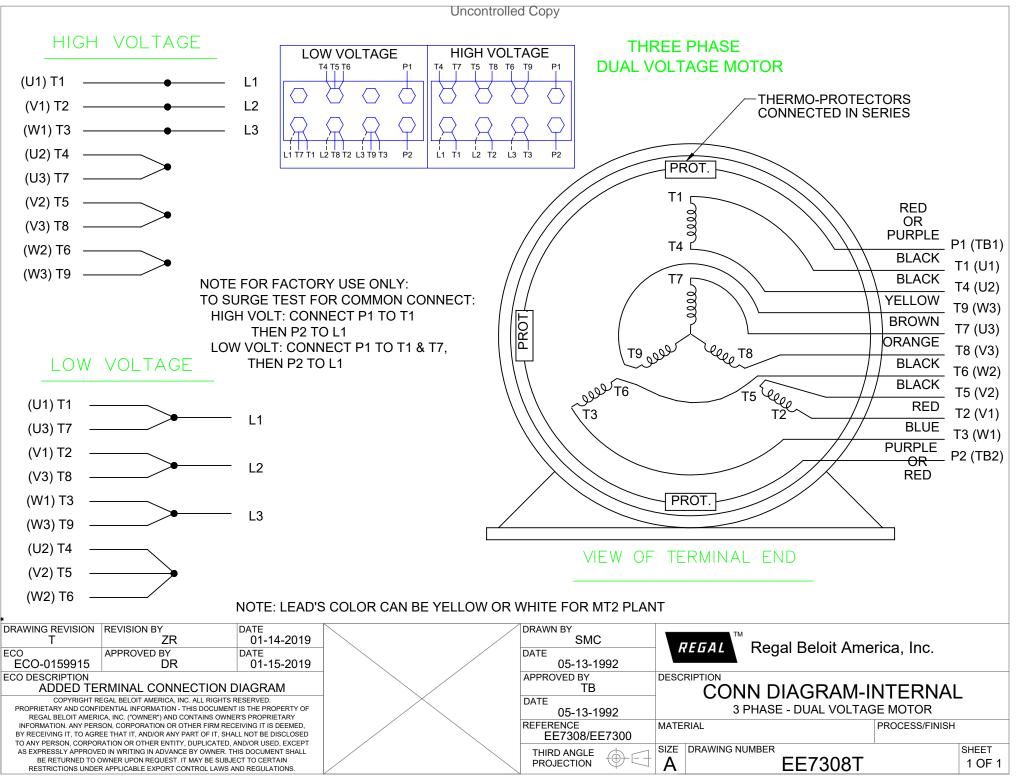
Technical Specifications

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	6	Rotation	Reversible
Resistance Main	.345 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	т	Overall Length	40.54 in
Frame Length	14.75 in	Shaft Diameter	2.125 in
Shaft Extension	5 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 2000:1		
Outline Drawing	B-SS311268-1475	Connection Drawing	A-EE7308T

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CERTIFICATION DATA SHEET

Model#:	324THFPA8086 AC	WINDING#:	286685 F 1
CONN. DIAGRAM:	A-EE7308T	ASSEMBLY:	F1/F2 CAPABLE
OUTLINE:	B-SS311268-1475		

TYPICAL MOTOR PERFORMANCE DATA

HP		ĸw		SYN	C. RF	РМ	F.L	RPM	FRAM	ΛE	EN	CLOSI	JRE	ĸv		DE	DESIGN
25		18.7		1	200		1	170	324TC		TE	TEBC-AXIAL			F		INV
РН	н	lz	VOL	TS	FL	AMPS	STA	ART TYPE	DUTY		INSL		s	.F	A	MB°C	ELEVATION
3	6	60	230/	460	6	7/33.5		VERTER	CONTINU S	ου	H4		1	.0		40	3300
]]].]					
FULL LOAD E	FF: 91.	7 3/4	LOAD	EFF: 91	91.7 1/2 LOAD EFF:		FF: 91.7	GTD. EFF		ELEC. TYPE		NO LOAD AMPS					
FULL LOAD	PF: 76	3/	4 LOAD	PF: 70.	5	1/2 LO	AD F	PF: 58.5	90.2 SQ CAGE INV DU			TY 33 / 16.5					
F.L. TO	RQUE		LOC	KED RO	TOR	AMPS]	L.R. TC	DRQUE B.D. TORQUE				F.L. RISE°C				
112 L	B-FT			350 /	0 / 175 180 LB-		-FT 161 280 LB-FT		T 250	T 250			60				
SOUND PRES @ 3 FT.		SOUN	D POWI	ER	ROT	FOR WKA	^2 MAX.		WK^2	SAF	E STALL	. TIME		START /HOU	-	A	PPROX. MOTOR WGT
75 dBA		8	5 dBA		4.8	LB-FT^2	-FT^2 - LB-F		-T^2		- SEC.	- SEC.		-			625 LBS.

EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)

R1	R2	X1	X2	ХМ
0.34314	0.21888	0.855	0.59394	20.634
RM	ZREF	XR	TD	TD0
766.08	11.4	1.71	0.0087	0.257

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	ENCODER	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEAF	BEARINGS		SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	FRAME
DE	OPE					MATERIAL	MATERIAL
BALL	BALL	POLYREX EM	т	NONE	NONE	1045 HOT	CAST IRON
6312	6311					ROLLED (C-204)	

	THERMO-PF	ROTECTORS	THERMISTORS	CONTROL	SPACE /n HEATERS	
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

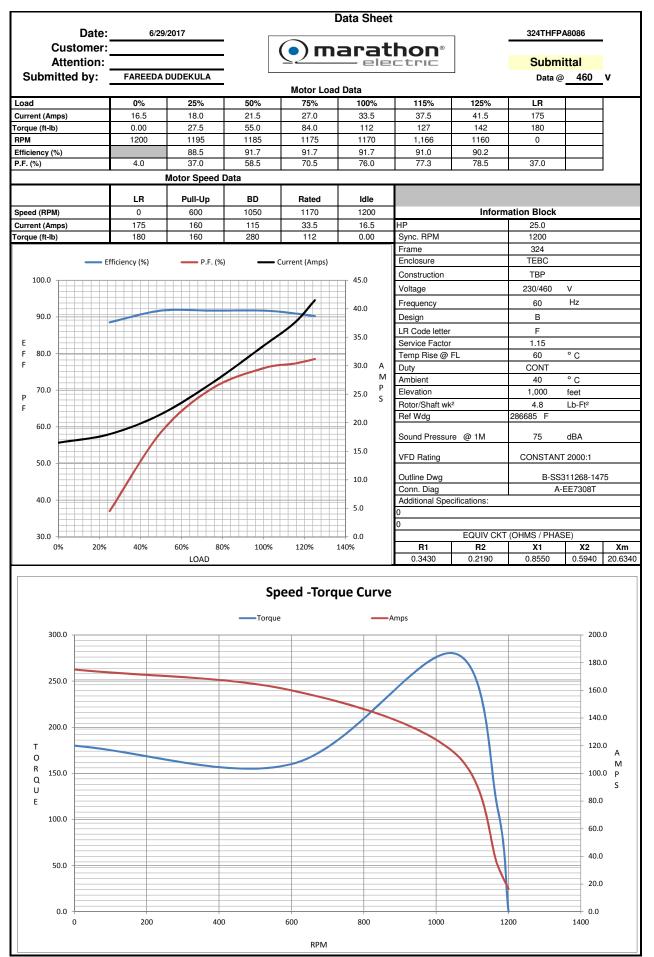
* N	INVERTER TORQUE: CONSTANT 2000:1
N	INV. HP SPEED RANGE: 1.3 X DASE SPEED
0	ENCODER: PROVISIONS ONLY
т	
	NONE NONE
E	NONE NONE PPR
S	
*	BRAKE: NONE NONE
	NONE P/N NONE

Uncontrolled Copy

NONE NONE - FT-LB NONE V NONE Hz

DATE: 06/21/2017 03:24:11 AM FORM 3531 REV.3 02/07/99 ** Subject to change without notice.

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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: 324THFPA8086

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

Catalog No : Y583

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