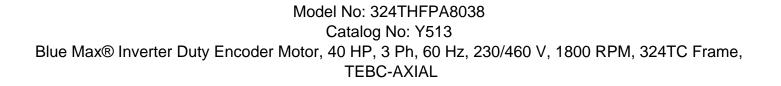
## **PRODUCT INFORMATION PACKET**





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marathon®





Product Information Packet: Model No: 324THFPA8038, Catalog No:Y513 Blue Max® Inverter Duty Encoder Motor, 40 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 324TC Frame, TEBC-AXIAL

# marathon®

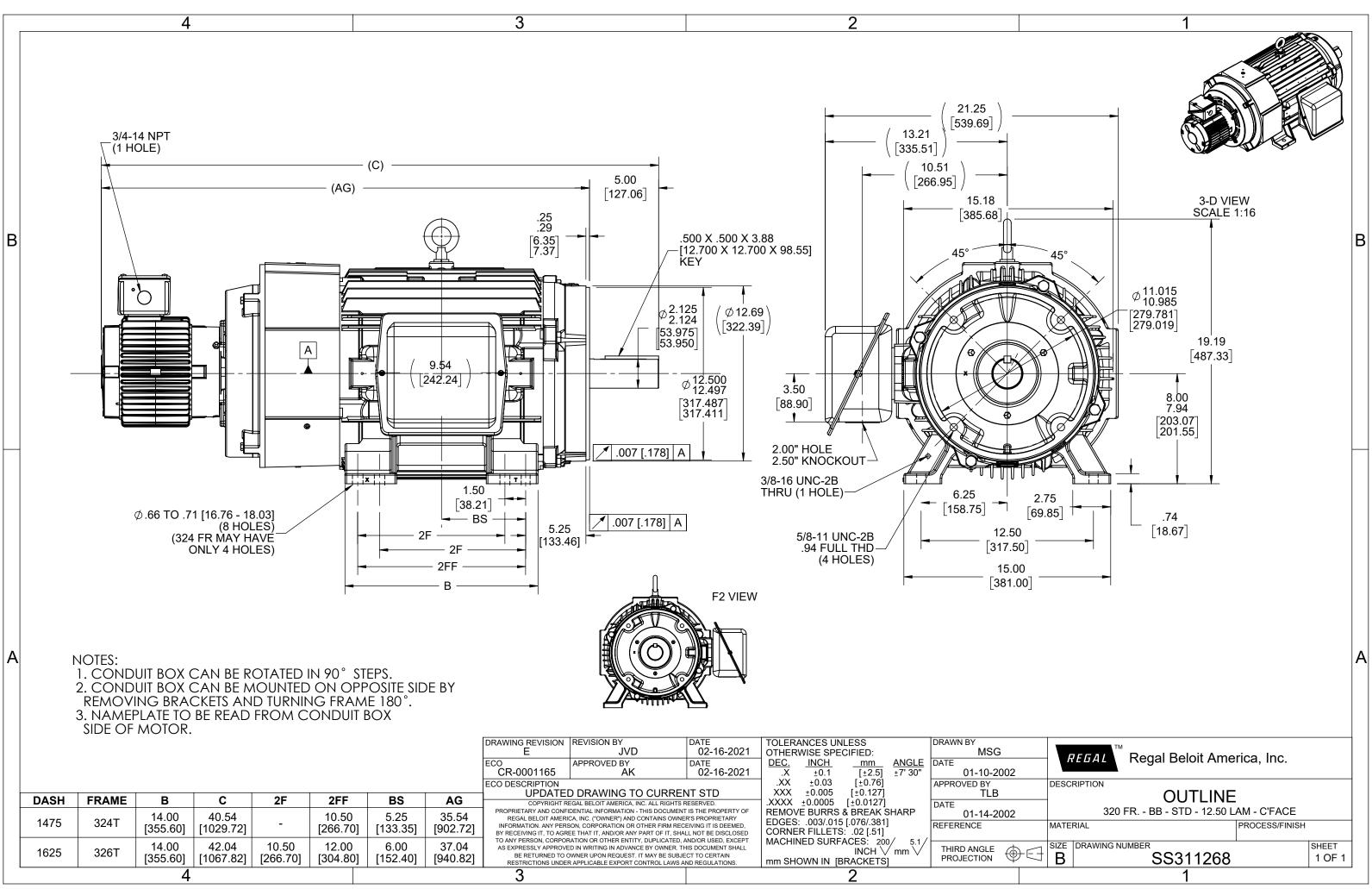
### Nameplate Specifications

Output HP	40 Hp	Output KW	30.0 kW
Frequency	60 Hz	Voltage	230/460 V
Current	100.0/50.0 A	Speed	1770 rpm
Service Factor	1	Phase	3
Efficiency	91.7 %	Power Factor	81.5
Duty	Continuous	Insulation Class	Н
Design Code	INV	KVA Code	G
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		

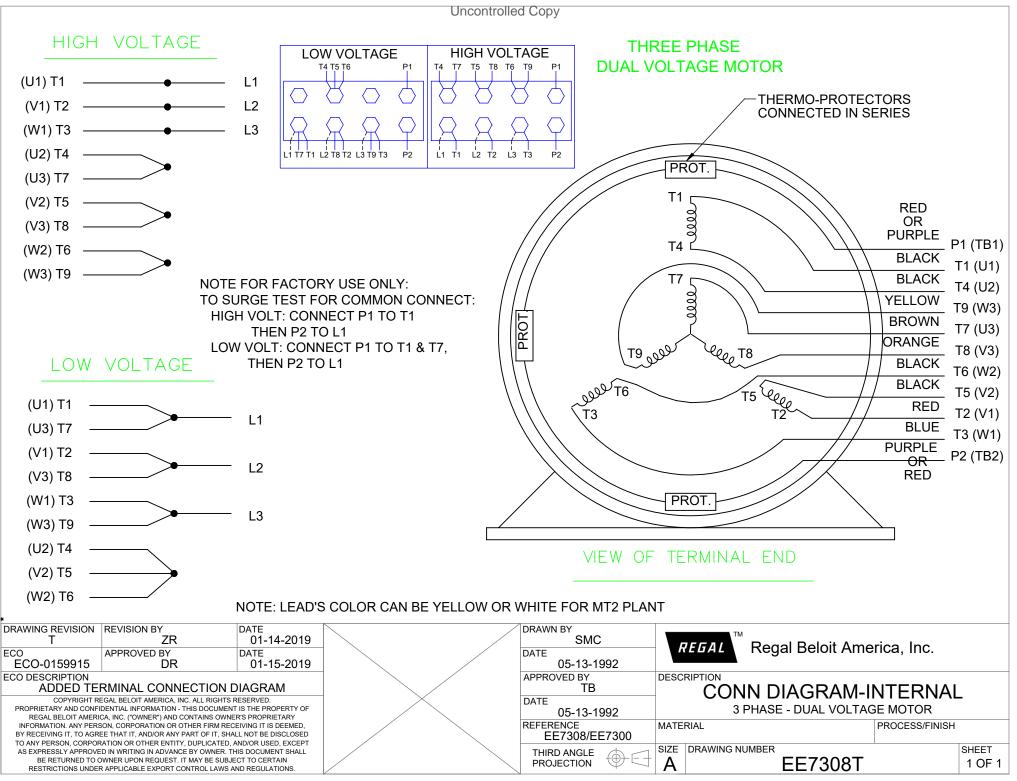
### **Technical Specifications**

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	.124 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#:	324THFPA8038 AC	WINDING#:	K2864202 F 3
CONN. DIAGRAM:	A-EE7308T	ASSEMBLY:	F1/F2 CAPABLE
	B-SS311268-1475		

#### TYPICAL MOTOR PERFORMANCE DATA

НР		ĸw		SYNC. F	RPM	F.L. RPM	FRAM	ΛE	ENC	LOSURE	κv		DE	DESIGN
40		30		1800	)	1770	324T	C	TEB	BC-AXIAL		G		INV
РН	Hz	z	VOL.	TS F	L AMPS	START TYPE	DUTY		INSL		S.F	<b>A</b>	мв°с	ELEVATION
3	60	)	230/4	160	100/50	INVERTER ONLY	CONTINU	ου	H4		1.0		40	3300
FULL LOAD E		-i			AD EFF: 90.2 OAD PF: 68	GTD. EFF 90.2		ELEC. TYPE			<b>NO LOAD AMPS</b>			
F.L. TO			LOCK		D ROTOR AMPS					D. TORQ	-	]	<b>F.L. RISE°C</b> 70	
SOUND PRESS			D POWE		000 / 300 235 LB				32 E STALL		STAR	J		PROX. MOTOR
@ 3 FT.		300N	DPOWE				WK^2	3AF	-E STALL		/HOU			WGT
75 dBA		85	5 dBA	4	7 LB-FT^2	LB	-FT^2		- SEC.					608 LBS.

#### EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)

R1	R2	X1	X2	ХМ
0.081535	0.077281	0.434617	0.592015	10.2805
RM	ZREF	XR	тр	TD0
549.475	7.09	6.5	0.022	0.373

#### \*\*\* 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

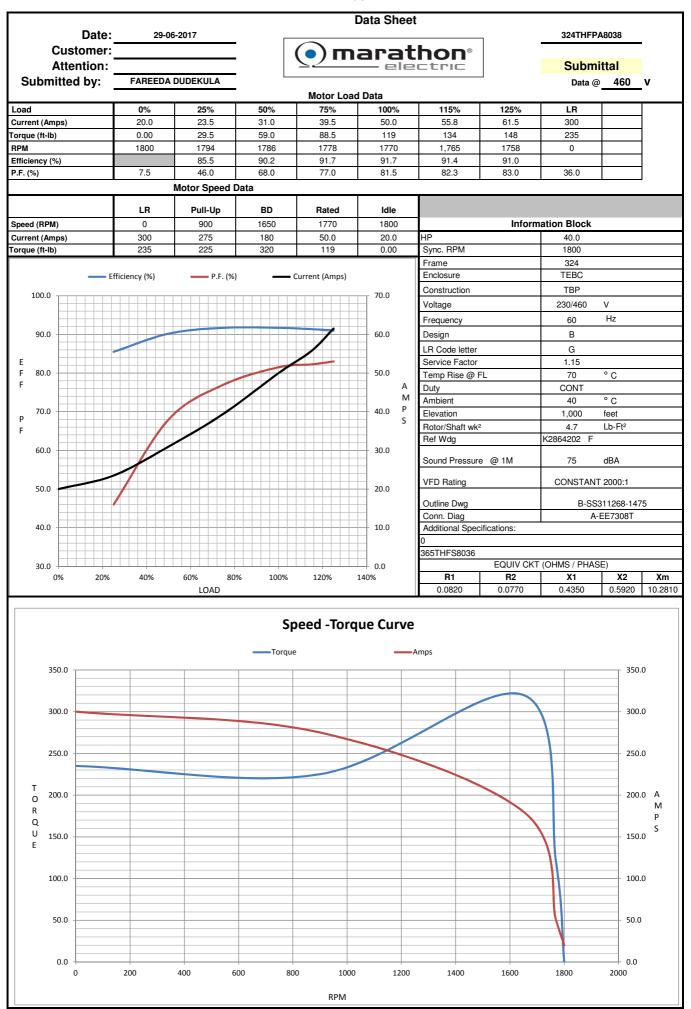
*	INVERTER TORQUE: CONSTANT 2000:1
Ν	INV. HP SPEED RANGE: 1.5 X BASE SPEED
0	ENCODER: PROVISIONS ONLY
T	NONE NONE
E	NONE NONE PPR
S	BRAKE: NONE NONE
•	NONE P/N NONE

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NONE NONE NONE FT-LB NONE V NONE HZ

DATE: 06/21/2017 03:23:02 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: 324THFPA8038

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

Catalog No : Y513

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

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Authorized Representative in the Community:

Julian Clark Marketing Engineer