## **PRODUCT INFORMATION PACKET**



Model No: 284THFPA8028 Catalog No: Y569 Blue Max® Inverter Duty Encoder Motor, 25 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 284T Frame, TEFC



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# marathon®

### Nameplate Specifications

Output HP	25 Hp	Output KW	18.7 kW
Frequency	60 Hz	Voltage	230/460 V
Current	63.0/31.5 A	Speed	1765 rpm
Service Factor	1	Phase	3
Efficiency	91.7 %	Power Factor	82
Duty	Continuous	Insulation Class	Н
Design Code	INV	KVA Code	G
Frame	284T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	Thermostat	Ambient Temperature	40 °C
Drive End Bearing Size	6311	Opp Drive End Bearing Size	6210
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

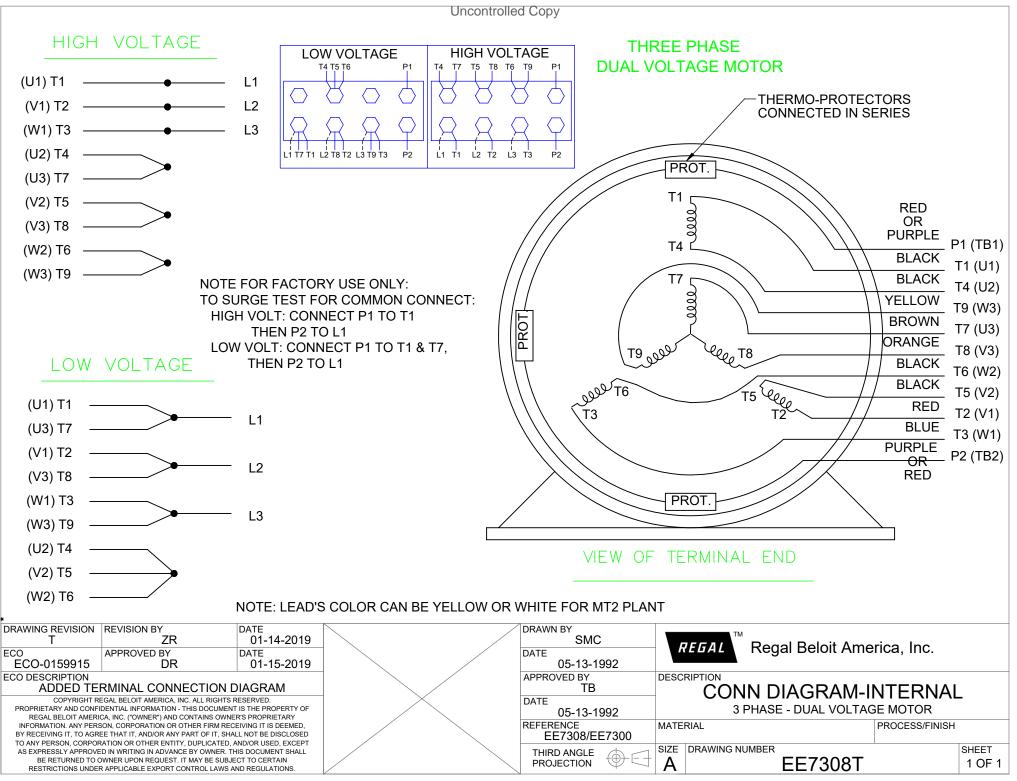
### **Technical Specifications**

Electrical Type	Squirrel Cage Inverter Duty	Starting Method	Inverter Only
Poles	4	Rotation	Reversible
Resistance Main	.325 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	28.58 in
Frame Length	12.75 in	Shaft Diameter	1.875 in
Shaft Extension	4.81 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	CONSTANT 2000:1		
Outline Drawing	B-SS311075-1275	Connection Drawing	A-EE7308T

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-(19.84) -(C) (ø14.27)-+2.06 \_(4.81)— -(12.69) .50x.50x3.25 –(1.75) 4.62-(9.69)KEY 8 0 O (14.82)ø<sup>1.0000\_</sup> (3.56)-ø1.875 1.874 -(9.56) 6 7.00 6.94 e Ø2.00" LEAD HOLE Ø2.50" KNOCKOUT-(2.44) 4.75— -(.62) BS (2.05)5.50 ·2F -11.00· ø.53-.58 (B)-4 HOLES (13.03)-NOTES: 1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS. CONDUIT BOX CAN BE NOTATED IN 90 STEFS.
CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR. (B-SS311038) DRAWN KL 10-26-2000 TOLERANCES UNLESS SPECIFIED σ CHK DJK 10-27-2000 DEC. INCHES APPD DJK 10-27-2000 .x ±.1 .xx ±.03 TILE OUTLINE - ENCODER PROV. SCALE 1=4 .XXX ±.005 280T FR. - TEFC - TFPA - 11.00" LAM. 2 CORRECTED C'BOX HOLE NOTE CN29200-1454 HLB 02-16-2001 REF DASH FRAME В С 2F BS 1 NEW DRAWING MU34251 KL 10-30-2000 .XXXX ±.0005 MAT'L. FMF NO. REVISION BY & DATE CHK ANG ±7'30" FINISH PREV 1275 11.50 28.58 9.50 4.75 284T THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT SIZE DRAWING NO. PAGE OF RFP CAD FILE SS311075 REV. 1425 286T 13.00 30.08 11.00 5.50 В SS311075 2 DIST LB

SS311075



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#### CERTIFICATION DATA SHEET

Model#:	284THFPA8028 AB	WINDING#:	K2564204 R13 1
CONN. DIAGRAM:	A-EE7308T	ASSEMBLY:	F1/F2 CAPABLE
OUTLINE:	B-SS311075-1275		

#### TYPICAL MOTOR PERFORMANCE DATA

		1011		-													PERION
HP		KW		SYNC. RPM		<u></u>	F.L. RPM		FRAME ENCLO		CLOSU	JRE KVA		A CODE		DESIGN	
25		18.7		1	800		1765		284	T TEFC		TEFC	G		G		INV
PH	н	Iz	VOL	.TS	FL	AMPS	PS START TYPE		DUTY		INSL		S.F		A	MB°C	ELEVATION
3	6	0	230/-	460	6	3/31.5	IN	VERTER	CONTINU	ou	H4		1.	0		40	3300
								ONLY	S								
FULL LOAD E	FF: 91.7	7 3/4	3/4 LOAD EFF: 92.4		1/2 LOAD EFF: 91		GTD. EFF		E	ELEC. TYPE			NO LOAD AMPS				
FULL LOAD	PF: 82	3/-	3/4 LOAD PF: 75.5 1		1/2 LOAD PF: 65			90.2		SQ C	AGE	INV DU	TY		28 / 14		
<b>F</b>																	
F.L. TO	RQUE		LOCI	KED RO	TOR	AMPS	L.R. TORQUE			B.D. TORQUE				F.L. RISE°C			
74.4 L	.B-FT		364 / 182				147 LB-FT 198				195 LB-FT 262				65		
SOUND PRESS	SURE	SOUN	SOUND POWER ROTOR		OR WK^	VK^2 MAX.		WK^2 SAFE ST		E STALL TIME			STARTS		A	PPROX. MOTOR	
@ 3 FT.													/HOUF			WGT	
75 dBA		85	5 dBA		2.7 LB-FT^2			- LB-F	- LB-FT^2		- SEC.		-				393 LBS.

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

R1	R2	X1	X2	ХМ
0.22686	0.17784	0.80712	1.09782	18.582
RM	ZREF	XR	TD	TD0
998.64	11.4	4.7	0.017	0.295

#### \*\*\* SUPPLEMENTAL INFORMATION \*\*\*

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIEN	ITATION		'ERE JTY	HAZARD LOCAT		DRIP COVER	SCREENS	PAINT
STANDARD	ENCODER	RIGID	HORIZONTAL FALSE NONE FALSE		FALSE NONE		BLUE (ENAMEL)				
BEARINGS		GREAS	GREASE SHAFT		ТҮРЕ	TYPE SPECIAL DE		SPECIAL ODE		SHAFT	FRAME
DE	OPE									MATERIAL	MATERIAL
BALL	BALL	POLYREX	ЕХ ЕМ Т		N		NONE		NONE	1045 HOT	CAST IRON
6311	6210									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
l	NV. HP SPEED RANGE: 1.5 X BASE SPEED
	ENCODER: PROVISIONS ONLY
	DYNAPAR HS35
	NONE NONE PPR
	BRAKE: NONE NONE NONE P/N NONE

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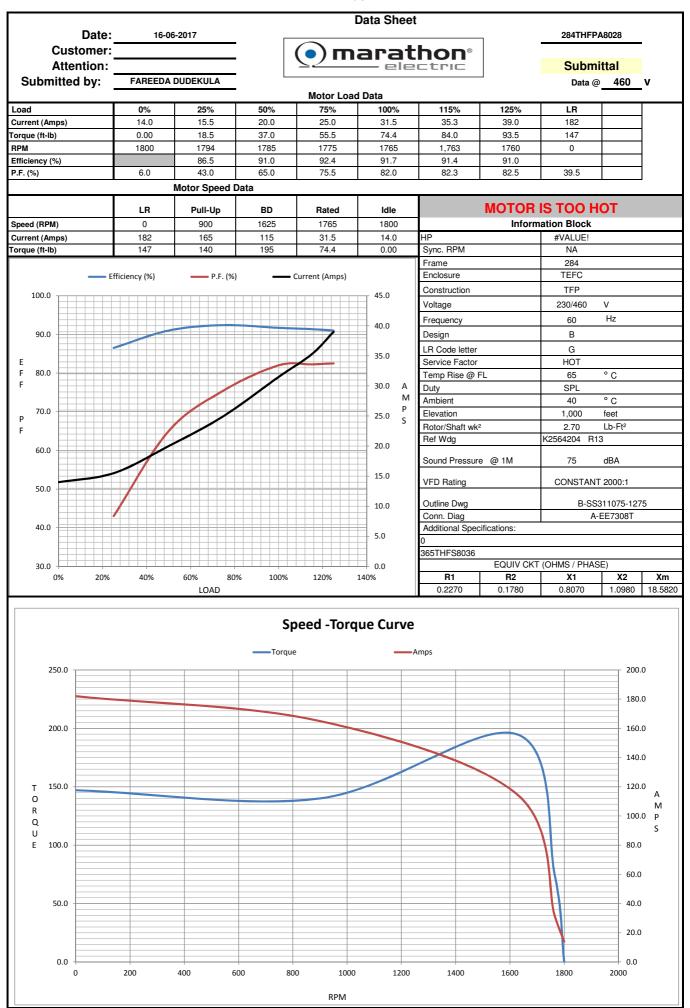
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NONE NONE - FT-LB NONE V NONE Hz

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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: 284THFPA8028

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

Catalog No : Y569

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