

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 145THFBD5329

Catalog No: Y368A

microMAX™ Inverter Duty Speed Ratio Motor, 2 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 145TC Frame, TEFC



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RegalRexnord

Nameplate Specifications

Output HP	2 Hp	Output KW	1.5 kW
Frequency	60 Hz	Voltage	230/460 V
Current	5.8/2.9 A	Speed	1745 rpm
Service Factor	1	Phase	3
Efficiency	86.5 %	Power Factor	74
Duty	Continuous	Insulation Class	H
Design Code	INV	KVA Code	N
Frame	145TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6205	Opp Drive End Bearing Size	6205
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	6.58 Ohms	Mounting	Bolt-on Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Shaft Diameter	0.875 in
Assembly/Box Mounting	F3	Inverter Load	CONSTANT 20:1
Connection Drawing	EE7308	Outline Drawing	SS621073-850

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NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED		DRAWN RM	11/20/1990
					DEC.	INCHES		
5	CHG TO REGAL LOGO	SL 09/10/2015	AB				CHK	ML 11/21/1990
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN	.X	±.1		APPD	SAS 04/24/2003
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS	.XX	±.02		SCALE	1=1
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XXX	±.005		REF	
1	REDRAWN	RM 11/20/1990		.XXXX	±.0005		FMF	
					±7'30"		PREV	
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					RFP	CAD FILE ee7308	SIZE	DRAWING NO. PAGE OF REV.
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Regal Beloit America, Inc.

TITLE CONNECTION DIAGRAM
3Ø – DUAL VOLTAGE MOTOR

MAT'L.

FINISH

Data Sheet

Date: 8/4/2022
Customer: _____
Attention: _____
Submitted by: _____



145THFBD5329

8430090014 FAN

Submittal

Data @ 460 V

Motor Load Data

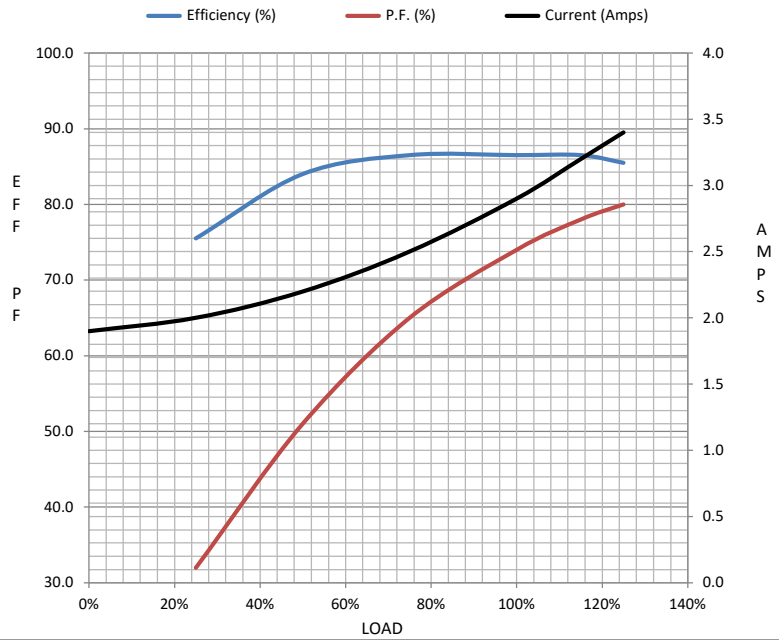
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	1.90	2.00	2.20	2.50	2.90	3.2	3.4	30.5	
Torque (ft-lb)	0.00	1.50	3.0	4.5	6.0	7.0	7.6	25.0	
RPM	1800	1785	1775	1760	1745	1,738	1730	0	
Efficiency (%)		75.5	84.0	86.5	86.5	86.5	85.5		
P.F. (%)	7.0	32.0	51.0	65.0	74.0	78.0	80.0	65.0	

Motor Speed Data

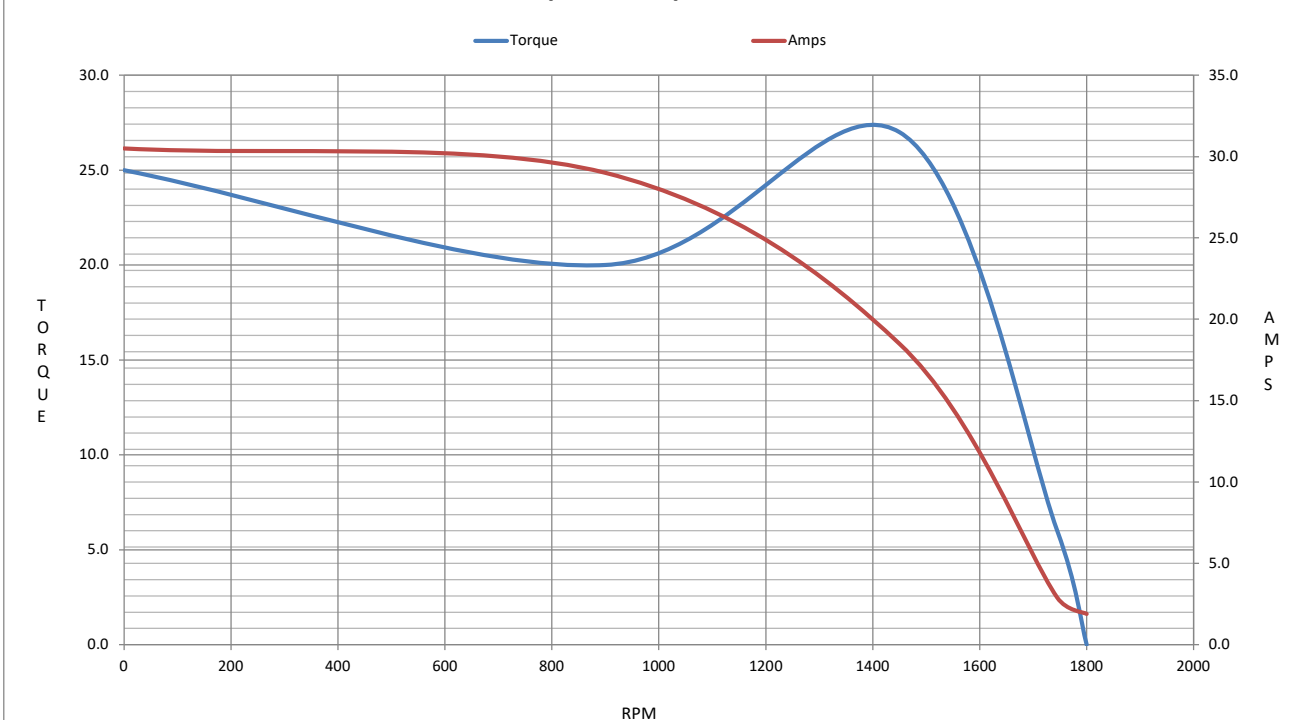
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1450	1745	1800
Current (Amps)	30.5	29.0	18.5	2.90	1.90
Torque (ft-lb)	25.0	20.0	27.0	6.0	0.00

Information Block

HP	2.0			
Sync. RPM	1800			
Frame	145			
Enclosure	TEFC			
Construction	TFR			
Voltage	230/460 V			
Frequency	60 Hz			
Design	INV			
LR Code letter	N			
Service Factor	1.0			
Temp Rise @ FL	55 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk²	0.14 Lb-Ft²			
Ref Wdg	HAT4008 FR			
Sound Pressure @ 1M	68 dBA			
VFD Rating	CONSTANT 20:1			
Outline Dwg	A-SS621073-850			
Conn. Diag	A-EE7308			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
4.2600	3.4080	5.6800	5.3960	141.2900



Speed -Torque Curve



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 : 145THFBD5329

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

Catalog No : Y368A

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
Vice President, Technology

Authorized Representative in the Community:



Julian Clark
Marketing Engineer

Created on 09/01/2022

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