

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 213THTCD8038

Catalog No: Y565A

Blue Max[®] Inverter Duty Encoder Motor, 7.50 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 213TC Frame, TENV

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RegalRexnord

Nameplate Specifications

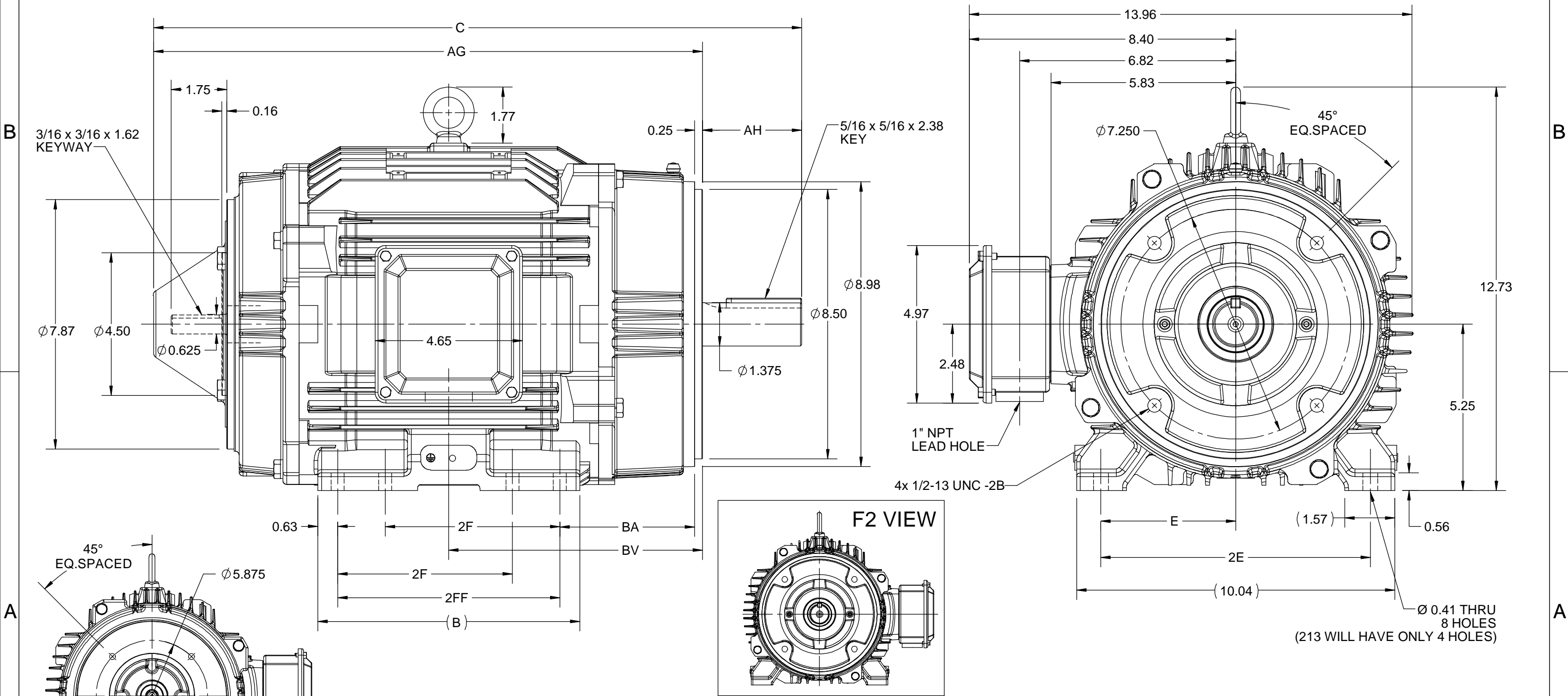
Output HP	7.50 Hp	Output KW	5.6 kW
Frequency	60 Hz	Voltage	230/460 V
Current	20.0/10.0 A	Speed	1770 rpm
Service Factor	1	Phase	3
Efficiency	90.6 %	Power Factor	78
Duty	Continuous	Insulation Class	H
Design Code	INV	KVA Code	L
Frame	213TC	Enclosure	Totally Enclosed Non Ventilated
Thermal Protection	Thermostat	Ambient Temperature	40 °C
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	Y
CE	Y	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	1.142 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	T	Shaft Diameter	1.375 in
Assembly/Box Mounting	F1/F2 CAPABLE	Inverter Load	CONSTANT 2000:1
Outline Drawing	SS810150-100	Connection Drawing	EE7308T

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	4			3				2		1		
DASH NO.	B	C	E	2E	2F	2FF	AG	AH	BA	BV	MOUNTING	FRAME
100	6.76	18.95	4.25	8.50	---	5.50	15.83	3.12	4.25	7.26	F1 OR F2	213TC
200	8.26	20.45			5.50	7.00	17.33			8.00		213/215TC



DRAWING REVISION C	REVISION BY VS	REV DATE/© DATE 14-09-2020
ECO ECO-0192056	APPROVED BY GNK	DATE 14-09-2020
ECO DESCRIPTION		
DRAWING UPDATED		
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PRIMARY DIMENSIONS ARE INCH
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ARE FOR REFERENCE ONLY

DRAWN BY VS	Regal Beloit America, Inc.
DATE 21-05-2020	
APPROVED BY SBD	
DATE 21-05-2020	
REFERENCE	DESCRIPTION 213/215TC FR NEMA TENV ODE 4.5 AK BRKT
THIRD ANGLE PROJECTION	MATERIAL
	PROCESS/FINISH
	SIZE B
	DRAWING NUMBER SS810150
	SHEET 1 OF 1

HIGH VOLTAGE



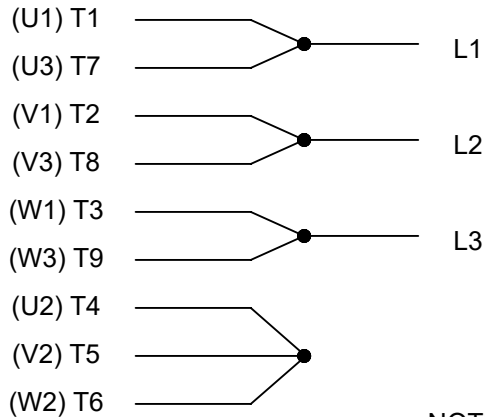
**THREE PHASE
DUAL VOLTAGE MOTOR**

THERMO-PROTECTORS
CONNECTED IN SERIES



**NOTE FOR FACTORY USE ONLY:
TO SURGE TEST FOR COMMON CONNECT:
HIGH VOLT: CONNECT P1 TO T1
THEN P2 TO L1
LOW VOLT: CONNECT P1 TO T1 & T7,
THEN P2 TO L1**

LOW VOLTAGE



VIEW OF TERMINAL END

NOTE: LEAD'S COLOR CAN BE YELLOW OR WHITE FOR MT2 PLANT

DRAWING REVISION T	REVISION BY ZR	DATE 01-14-2019		DRAWN BY SMC	Regal Beloit America, Inc.	
ECO ECO-0159915	APPROVED BY DR	DATE 01-15-2019		DATE 05-13-1992		
ECO DESCRIPTION ADDED TERMINAL CONNECTION DIAGRAM				APPROVED BY TB		DESCRIPTION CONN DIAGRAM-INTERNAL 3 PHASE - DUAL VOLTAGE MOTOR
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			REFERENCE EE7308/EE7300	SIZE A	DRAWING NUMBER EE7308T	SHEET 1 OF 1
			THIRD ANGLE PROJECTION			

Data Sheet

Date: 7/26/2022
 Customer: _____
 Attention: _____
 Submitted by: _____



213THTCD8038

Submittal

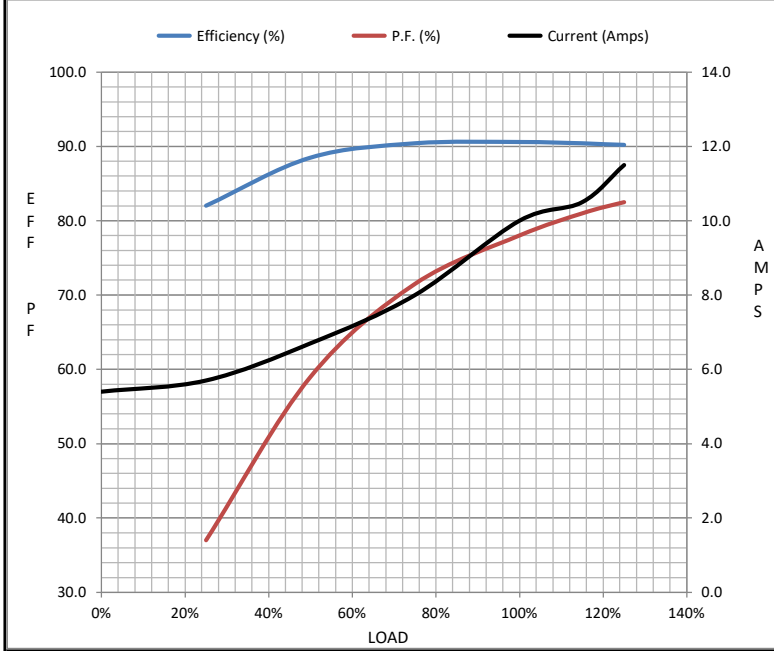
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	5.4	5.7	6.7	8.0	10.0	10.5	11.5	85.0
Torque (ft-lb)	0.00	5.5	11.0	16.6	22.2	25.7	27.9	55.8
RPM	1800	1793	1785	1780	1770	1,767	1762	0
Efficiency (%)		82.0	88.5	90.4	90.6	90.4	90.2	
P.F. (%)	6.5	37.0	59.0	71.5	78.0	81.0	82.5	42.5

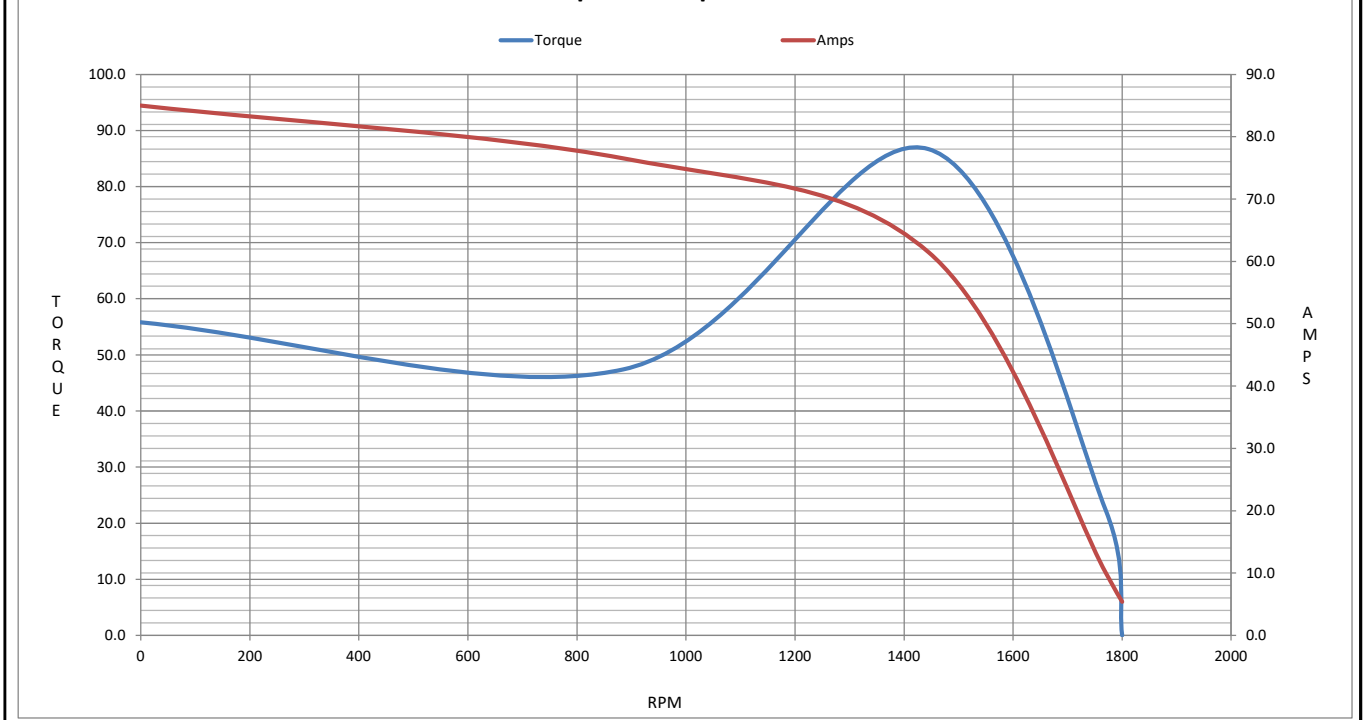
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block	
Speed (RPM)	0	885	1445	1770	1800	HP	7.5
Current (Amps)	85.0	76.5	61.5	10.0	5.4	Sync. RPM	1800
Torque (ft-lb)	55.8	47.4	86.7	22.2	0.00	Frame	213



Enclosure	TENV			
Construction	TTC			
Voltage	230/460 V			
Frequency	60 Hz			
Design	INV			
LR Code letter	L			
Service Factor	1.0			
Temp Rise @ FL	105 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	3,300 feet			
Rotor/Shaft wk ²	1.00 Lb-Ft ²			
Ref Wdg	HA31324027 NONE			
Sound Pressure @ 1M	62 dBA			
VFD Rating	CONSTANT 2000:1			
Outline Dwg				
Conn. Diag	EE7308T			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.7110	0.4690	2.5330	2.6390	50.3250

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 : 213THTCD8038

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

Catalog No : Y565A

Rework No : N/A

Directives :

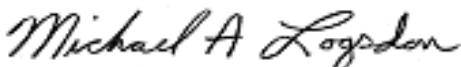
Low Voltage Directive 2014/35/EU

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

CE 22