

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 215TTFWD6076

Catalog No: E2014A

XRI® General Purpose General Purpose Motor, 5 & 5 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 190/380 V,  
1200 & 1000 RPM, 215TC Frame, TEFC



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**RegalRexnord**

## Nameplate Specifications

Phase	3	Output HP	5 & 5 Hp
Output KW	3.7 & 3.7 kW	Voltage	208-230/460 & 190/380 V
Speed	1170 & 970 rpm	Service Factor	1.15 & 1.15
Frame	215TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	89.5 & 89.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	14.8-14/7 & 16.4/8.2 A	Power Factor	75
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	J
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

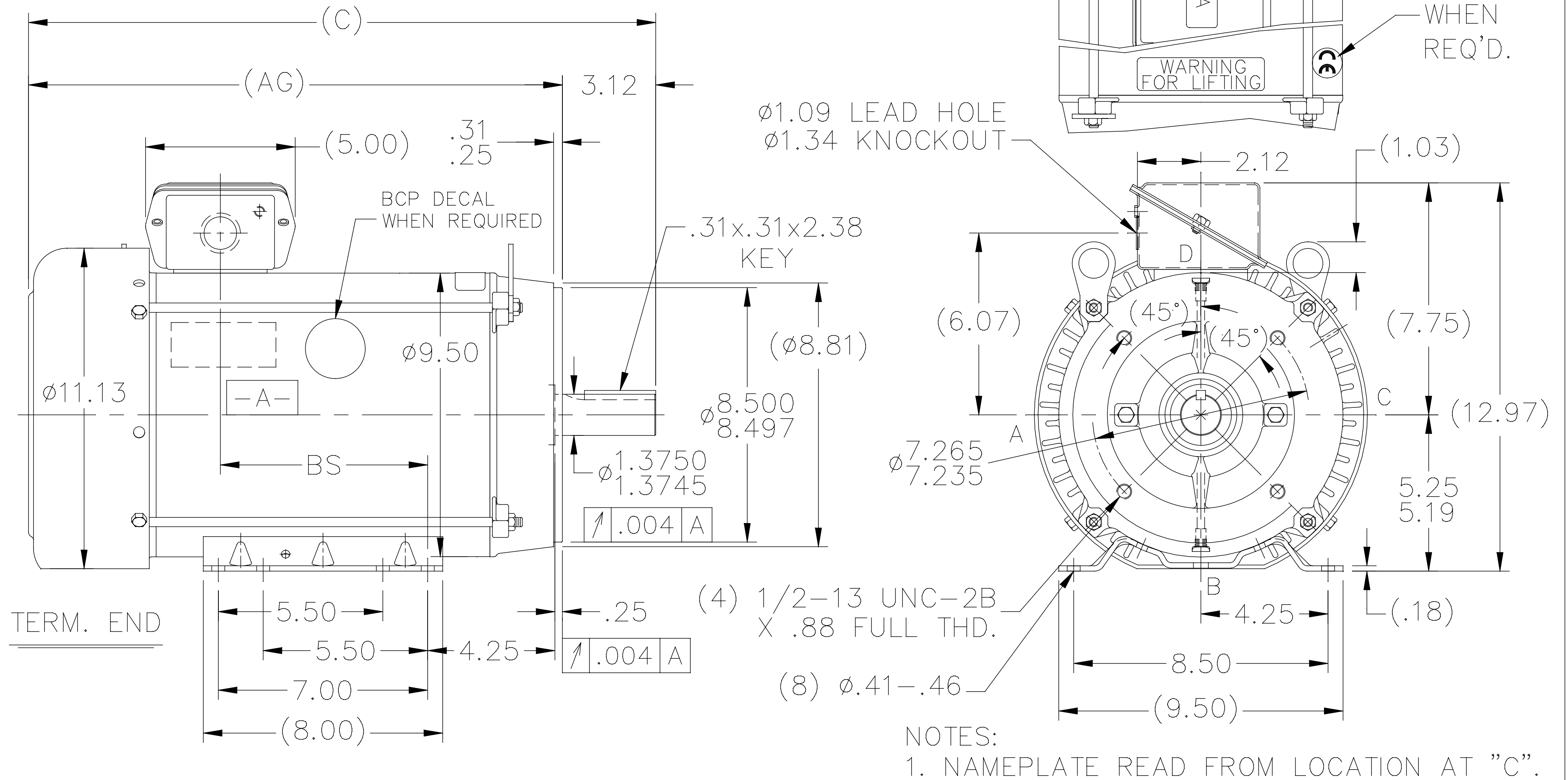
## Technical Specifications


Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	1.76 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	20.97 in
Frame Length	11.15 in	Shaft Diameter	1.375 in
Shaft Extension	3.12 in	Assembly/Box Mounting	F3
Inverter Load	CONSTANT 10:1		
Connection Drawing	005010.01	Outline Drawing	SS88794-1115



DASH	FR.	C	AG	BS
965	213T	19.47	16.35	5.43
1115	213/15T	20.97	17.85	6.93
1240	213/15T	22.22	19.10	8.18

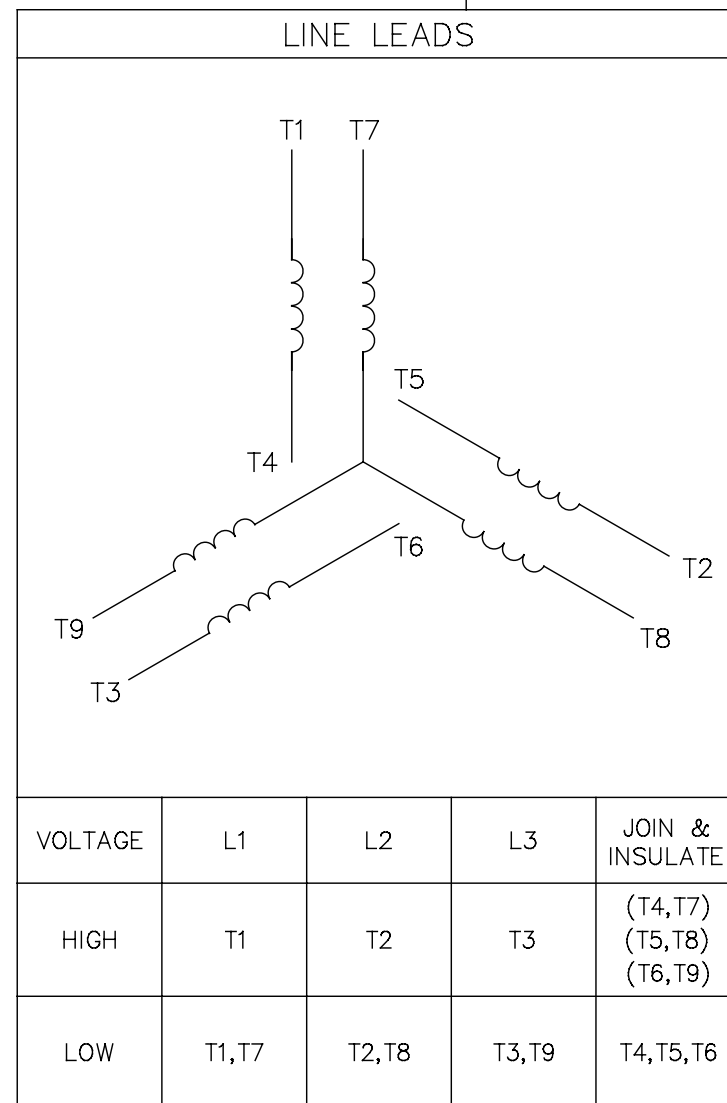
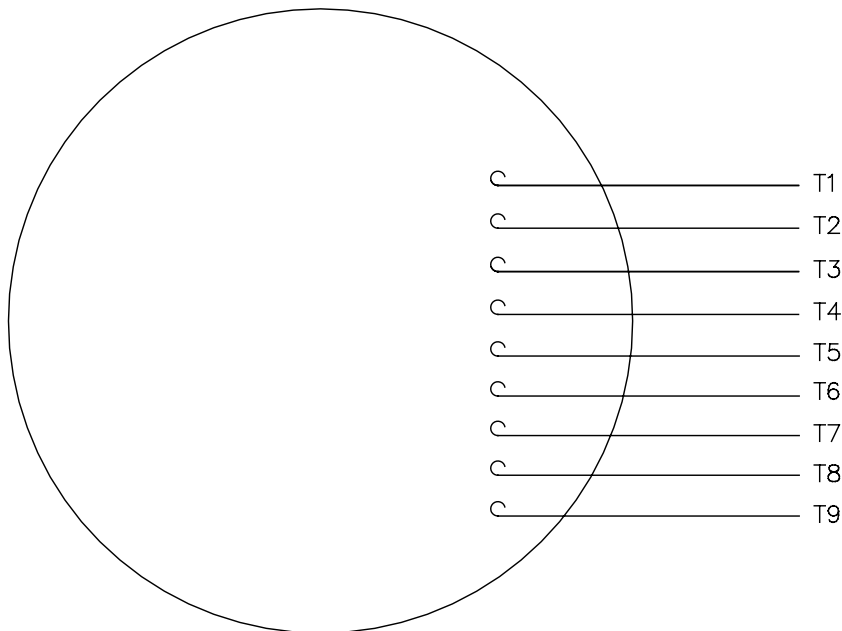
SS88794




				TOLERANCES UNLESS SPECIFIED		<div> <b>Regal Beloit America, Inc.</b></div>				DRAWN TAT 08-13-2004				
				DEC.	INCHES					CHK ML 08-13-2004				
				.X	±.1					APPD TB 08-13-2004				
				.XX	±.03					SCALE 1=5				
				.XXX	±.005	TITLE OUTLINE – F3 C'BOX MOUNTING 210T FR. –BB–TS–TEFC–R/S – C'FACE				REF				
1	TITLE BLOCK LOGO CHANGE PER ECO-0078542		MDV 06/09/2015	.XXXX	±.0005					MAT'L.				FMF
NO.	REVISION		BY & DATE	CHK	ANG	± 7'30"	FINISH				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 ss88794			SIZE A	DRAWING NO. PAGE OF		REV. 1	
				DIST LB							SS88794			

005010-01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



				TOLERANCES UNLESS SPECIFIED		 <b>Regal Beloit America, Inc.</b>			DRAWN	RDW 04/12/02		
				DEC.	INCHES				CHK			
				.X	±.1				APPD			
				.XX	±.01				SCALE	1=1		
				.XXX	±.005	TITLE	EXTERNAL WIRING DIAGRAM 3 PHASE W/O PROTECTOR			REF	FIG.2-51	
A	UPDATED TO REGAL LOGO		SAJ 06/26/15	AJY	.XXXX	±.0005	MAT'L. DECAL - 004014			FMF		
NO.	REVISION		BY & DATE	CHK	ANG	±1/2"	FINISH			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	04/12/02		CAD FILE		00501001	SIZE	DRAWING NO.	REV
				DIST BRF-NLV				A	005010-01		A	



P.O. BOX 8003  
WAUSAU, WI 54401-8003  
PH. 715-675-3311

DATA VOLTS: 460

### CERTIFICATION DATA SHEET

CUSTOMER: \_\_\_\_\_ CUSTOMER P.O. #: \_\_\_\_\_  
ORDER #: \_\_\_\_\_ REFERENCE MODEL #: 215TTTFWD6076  
CONN. DIAGRAM: 005010.01 CAT #: E2014  
OUTLINE: SS88794-1115 CUSTOMER PART #: \_\_\_\_\_  
WINDING: K2156185 NONE 2 MOUNTING: F3  
SPEED: \_\_\_\_\_

### TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
5	3.7	1200	1170	215TC	TEFC	TFW	J	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	208-230/460#190/380	14.8-14/7&16.4/8.2	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	89.5	3/4 LD EFF	90.1	1/2 LD EFF	89.0	GTD EFF	87.5	ELECT. TYPE	SQ CAGE INV RATED
F.L. PF	75.0	3/4 LD PF	68.5	1/2 LD PF	57.3				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)	
22.5 LB-FT	46.0	45.6 LB-FT 203%	68.2 LB-FT 303%	55	

@ 3 FT.	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
55 dBA	64 dBA	1.00 LB-FT²	80 LB-FT²	25 SEC.	2	140 LB.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	BLUE (ENAMEL)

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
BALL BALL	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL
6309 6206						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
11.136	1.055	4.731	5.264	72.267	0.150	ODE

* N O T E S *		INVERTER TORQUE: CONSTANT 10:1 INV. HP SPEED RANGE: 1.5 X BASE SPEED
	ENCODER: NONE NONE NONE	NONE PPR

PREPARED BY: FAREEDA DUDEKULA DATE: 9/12/2018	BRAKE: NONE NONE NONE	NONE
	FT-LB: NA	
	VOLTAGE: NONE	HZ:
FORM: 3531 REV_4 2/27/06	UL: V-INS, CONST UL REC	

## Data Sheet

Date: 12/3/2018

Customer: \_\_\_\_\_

Attention: \_\_\_\_\_

Submitted by: FAREEDA DUDEKULA



215TTFWD6076

Submittal

Data @ 460 V

## Motor Load Data

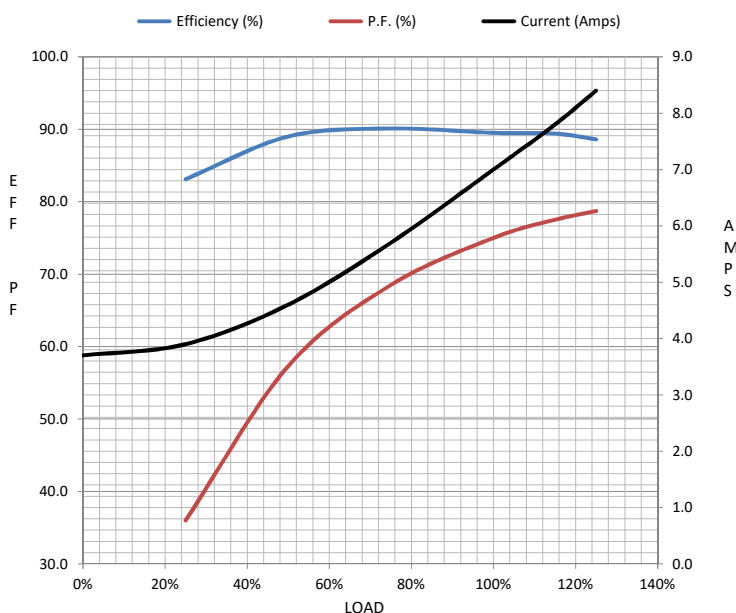
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	3.7	3.9	4.6	5.7	7.0	7.8	8.4	46.0	
Torque (ft-lb)	0.00	5.5	11.1	16.8	22.5	26.0	28.3	45.6	
RPM	1200	1192	1185	1178	1170	1,165	1160	0	
Efficiency (%)		83.1	89.0	90.1	89.5	89.4	88.6		
P.F. (%)	5.8	36.0	57.3	68.5	75.0	77.5	78.7	45.0	

## Motor Speed Data

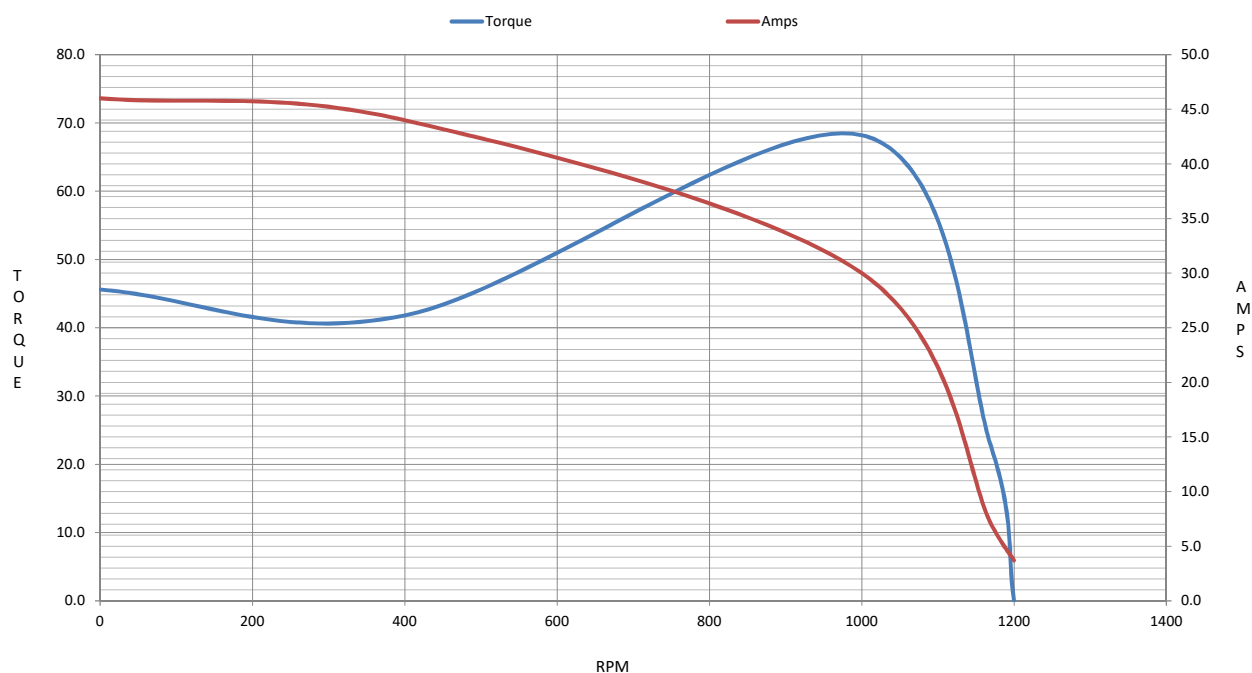
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	400	1000	1170	1200
Current (Amps)	46.0	44.0	30.0	7.0	3.7
Torque (ft-lb)	45.6	41.8	68.2	22.5	0.00

## Information Block

HP	5.0			
Sync. RPM	1200			
Frame	215			
Enclosure	TEFC			
Construction	TFR			
Voltage	208-230/460#190/380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	J			
Service Factor	1.15			
Temp Rise @ FL	55 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	1.00 Lb-Ft <sup>2</sup>			
Ref Wdg	K2156185 NONE			
Sound Pressure @ 1M	55 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	SS88794-1115			
Conn. Diag	005010.01			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
11.1360	1.0550	4.7310	5.2640	72.2670



## 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 : 215TTFWD6076

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

Catalog No : E2014A

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 09/16/2022

**CE 22**