

# PRODUCT INFORMATION PACKET

marathon®  
Motors

Model No: 213TTWWD16026

Catalog No: N211A

PowerWash™ XT Wash Down Duty™ Washdown Pump Motor, 7.50 & 5 HP, 3 Ph, 60 & 50 Hz,  
230/460 & 190/380 V, 1800 & 1500 RPM, 213JM Frame, TEFC



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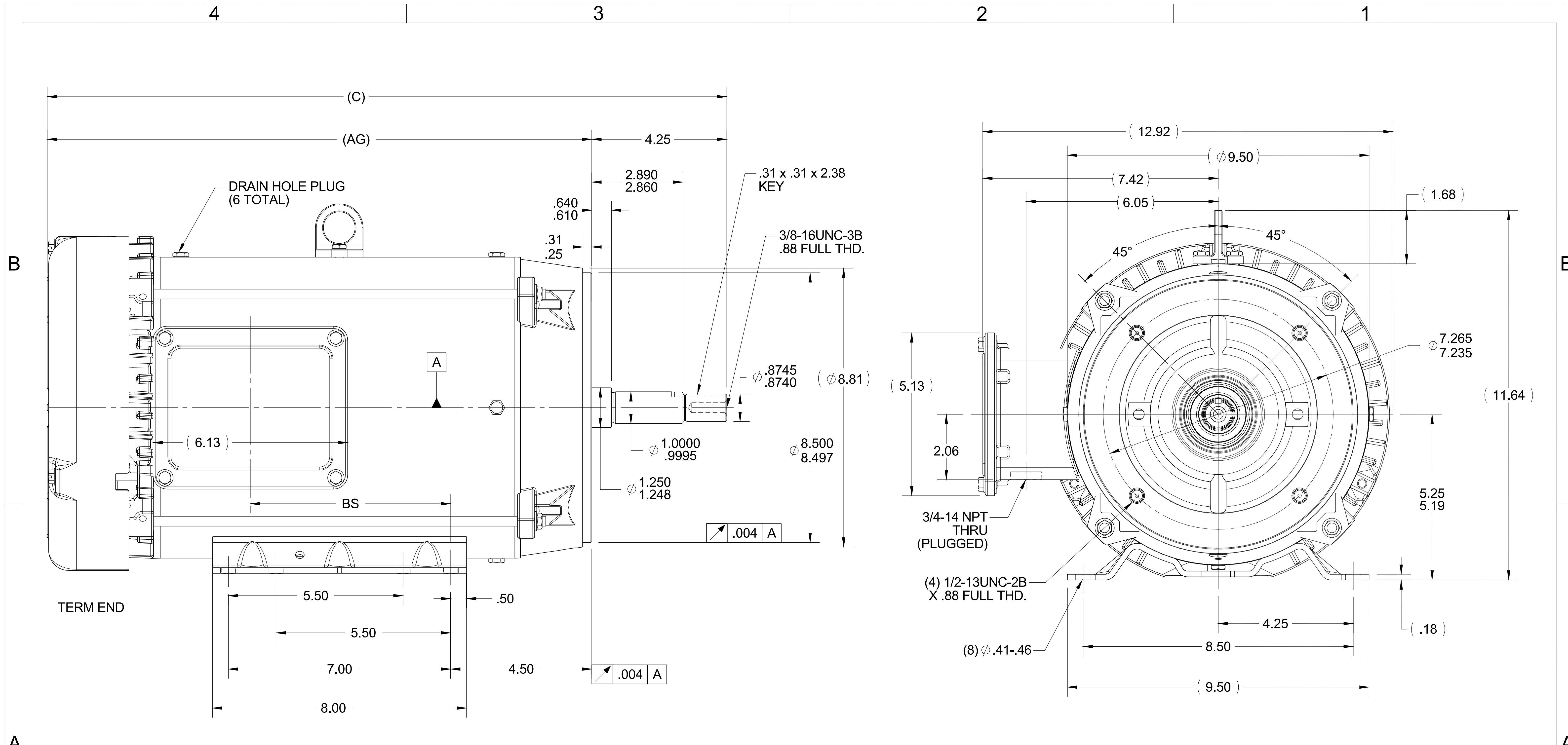
RegalRexnord

### Nameplate Specifications

Phase	<b>3</b>	Output HP	<b>7.50 &amp; 5 Hp</b>
Output KW	<b>5.6 &amp; 3.7 kW</b>	Voltage	<b>230/460 &amp; 190/380 V</b>
Speed	<b>1765 &amp; 1475 rpm</b>	Service Factor	<b>1.15 &amp; 1.15</b>
Frame	<b>213JM</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>No Protection</b>	Efficiency	<b>91.7 &amp; 90.2 %</b>
Ambient Temperature	<b>40 °C</b>	Frequency	<b>60 &amp; 50 Hz</b>
Current	<b>19.6/9.8 &amp; 16.6/8.3 A</b>	Power Factor	<b>78.3</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>B</b>	KVA Code	<b>H</b>
Drive End Bearing Size	<b>6309</b>	Opp Drive End Bearing Size	<b>6206</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>Y</b>	IP Code	<b>55</b>
Number of Speeds	<b>1</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Induction Run</b>	Starting Method	<b>Across The Line</b>
Poles	<b>4</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>1.18 Ohms</b>	Mounting	<b>Rigid Base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Rolled Steel</b>
Shaft Type	<b>JM</b>	Overall Length	<b>21.40 in</b>
Frame Length	<b>11.15 in</b>	Shaft Diameter	<b>1.000 in</b>
Shaft Extension	<b>4.50 in</b>	Assembly/Box Mounting	<b>F1 ONLY</b>
Connection Drawing	<b>005010.01ME</b>	Outline Drawing	<b>038051-1115</b>



- NOTES:  
 1- NAMEPLATE TO BE READ FROM C'BOX SIDE OF MOTOR.  
 DASH 965 TO BE READ FROM OPPOSITE SHAFT END  
 2- C'BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180 DEGREES (EXCEPT AS NOTED).

ORACLE REV  
001

DRAWING REVISION A	REVISION BY SYED	DATE 11/19/15
ECO ECO-0087183	APPROVED BY SYED	DATE 11/19/15

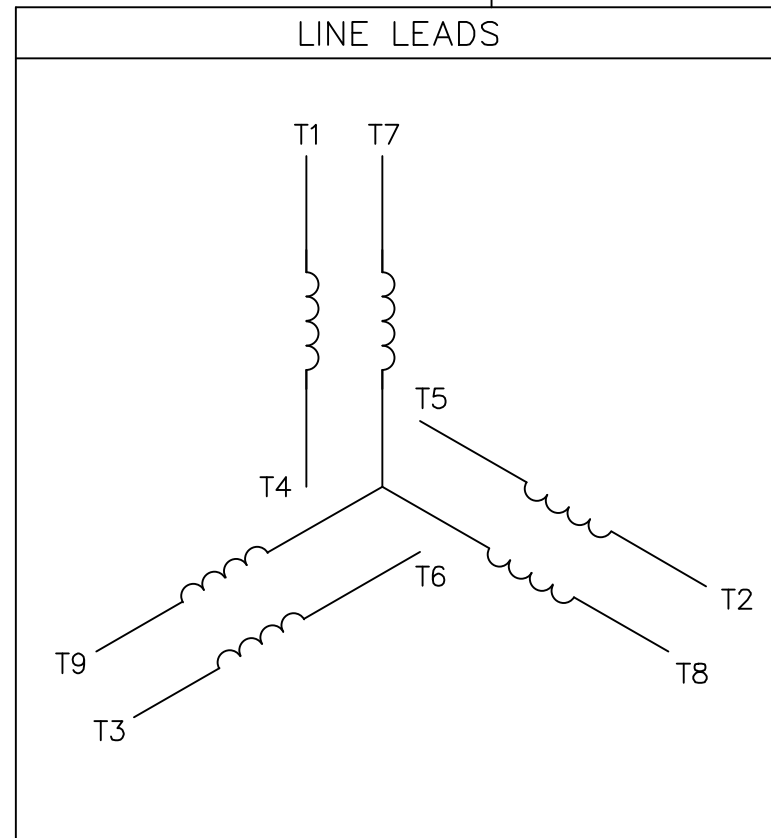
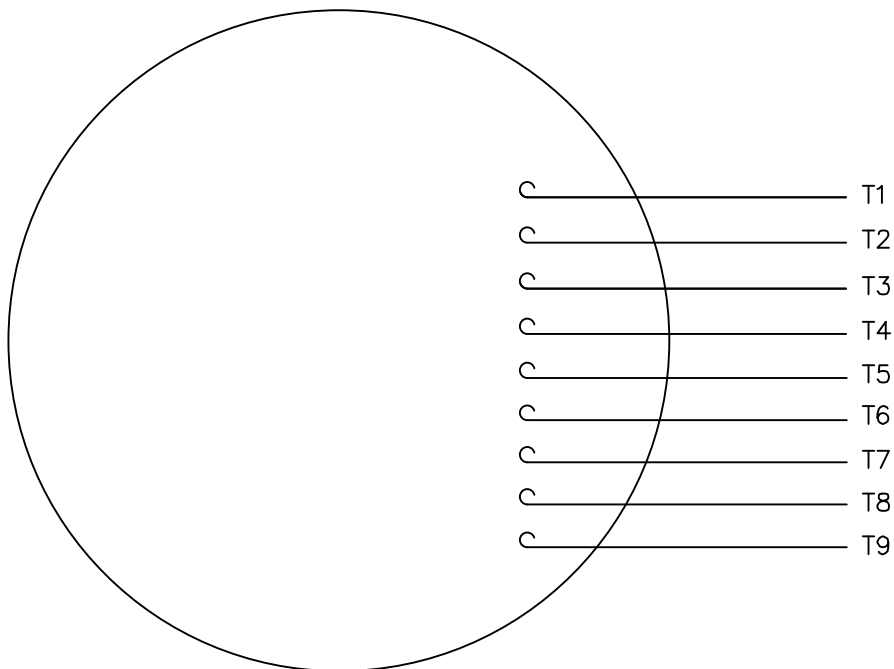
TOLERANCES UNLESS OTHERWISE SPECIFIED:  
 DEC. INCH mm ANGLE  
 .X ±0.1 [±2.5] ±0.5°  
 .XX ±0.03 [±0.76]  
 .XXX ±0.005 [±0.127]  
 .XXXX ±0.0005 [±0.0127]  
 REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45°  
 CORNER FILLETS: R.02 [.51]  
 MACHINED SURFACES: 125 INCH mm 3.2  
 mm SHOWN IN [BRACKETS]

DRAWN BY SYED	DATE 11/19/15
APPROVED BY SYED	DATE 11/19/15
REFERENCE	THIRD ANGLE PROJECTION


<b>REGAL</b> ™ Regal Beloit America, Inc.	
DESCRIPTION <b>OUTLINE</b> WASHDOWN 210FR-TEFC-C-FACE-3PH	
MATERIAL	PROCESS/FINISH
SIZE <b>B</b>	DRAWING NUMBER <b>038051</b>
SHEET 1 OF 1	

DASH	FRAME	C	BS	AG	MOUNTING
965	213T	19.90	4.82	15.65	
1115	213/15T	21.40	6.32	17.15	
1240	215T	22.65	7.57	18.40	F1 ONLY

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



VOLTAGE	L1	L2	L3	JOIN & INSULATE
HIGH	T1	T2	T3	(T4,T7) (T5,T8) (T6,T9)
LOW	T1,T7	T2,T8	T3,T9	T4,T5,T6

NO.	REVISION	BY & DATE	CHK	TOLERANCES UNLESS SPECIFIED		TITLE	DRAWN RDW 04/12/02		
				DEC.	INCHES				
				.X	±.1	 <b>MARATHON ELECTRIC</b> EXTERNAL WIRING DIAGRAM 3 PHASE W/O PROTECTOR	CHK		
				.XX	±.01		APPD		
				.XXX	±.005		SCALE 1=1		
				.XXXX	±.0005		REF FIG.2-51		
				ANG	±1/2'	MAT'L. DECAL - 004014	FMF		
						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 00501001ME	SIZE A	DRAWING NO. 005010-01ME	REV.
				DIST					



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 #: 213TTWWD16026  
 CONN. DIAGRAM: 005010.01ME CAT #: N211A  
 OUTLINE: 038051-1115 CUSTOMER PART #: \_\_\_\_\_  
 WINDING: K2134279 R1 2 MOUNTING: F1 ONLY  
 SPEED: \_\_\_\_\_

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN		
7.5	5.6	1800	1765	213JM	TEFC	TFW	H	B		
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.	
3	60/50	230/460#190/380	19.6/9.8&16.6/8.3	ACROSS THE LINE	CONT	F	1.15	40	3300	
F.L. EFF	91.7	3/4 LD EFF	91.6	1/2 LD EFF	90.6	GTD EFF	91.0	ELECT. TYPE	SQ CAGE IND RUN	
F.L. PF	78.3	3/4 LD PF	72.6	1/2 LD PF	60.4					
F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)						
22.3 LB-FT	67.5	52.9 LB-FT 237%	75.0 LB-FT 336%	55						
@ 3 FT.	POWER	ROTOR WK <sup>2</sup>	MAX. LOAD WK <sup>2</sup>	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT				
62 dBA	71 dBA	0.85 LB-FT <sup>2</sup>	62 LB-FT <sup>2</sup>	15 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	HITE - LEESON (EPO)		
BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL			
DE	ODE	POLYREX EM	JM	NONE	NONE	303 STAINLESS (C-501)	ROLLED STEEL			
BALL	BALL									
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				
0.76	1.108	2.458	3.173	50.414	0.150	ODE				
* N O T E S *						INVERTER TORQUE: NONE INV. HP SPEED RANGE: NONE				
						ENCODER: NONE NONE NONE NONE PPR				
	PREPARED BY: FAREEDA DUDEKULA					BRAKE: NONE NONE NONE NONE				
	DATE: 9/17/2018					FT-LB: NA VOLTAGE: NONE HZ:				
	FORM: 3531 REV_4 2/27/06					UL: V-INS, CONST UL REC				

Data Sheet

213TTWWD16026

Date: 12/10/2018  
 Customer: \_\_\_\_\_  
 Attention: \_\_\_\_\_  
 Submitted by: FAREEDA DUDEKULA



Submittal

Data @ 460 V

Motor Load Data

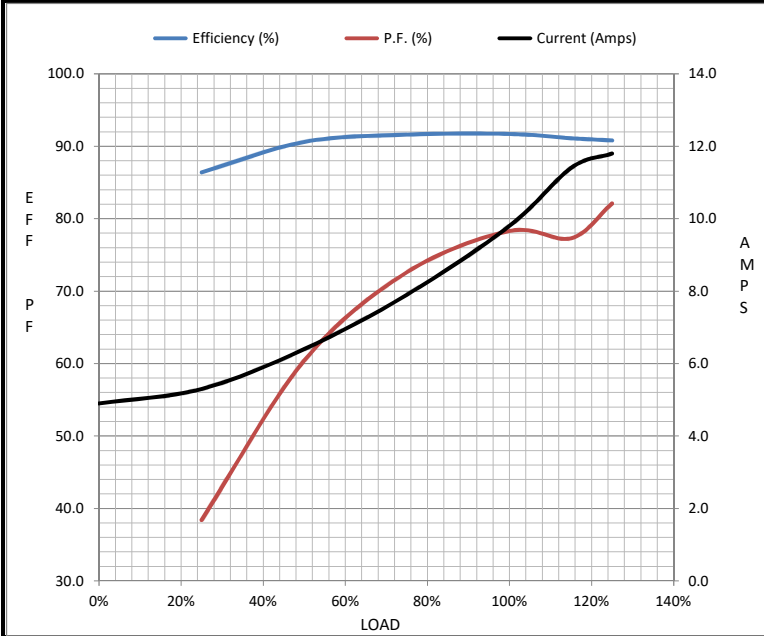
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	4.9	5.3	6.4	7.9	9.8	11.4	11.8	67.5
Torque (ft-lb)	0.00	5.5	11.0	16.6	22.3	25.5	28.0	52.9
RPM	1800	1792	1785	1775	1765	1,765	1762	0
Efficiency (%)		86.4	90.6	91.6	91.7	91.1	90.8	
P.F. (%)	4.9	38.4	60.4	72.6	78.3	77.3	82.1	42.6

Motor Speed Data

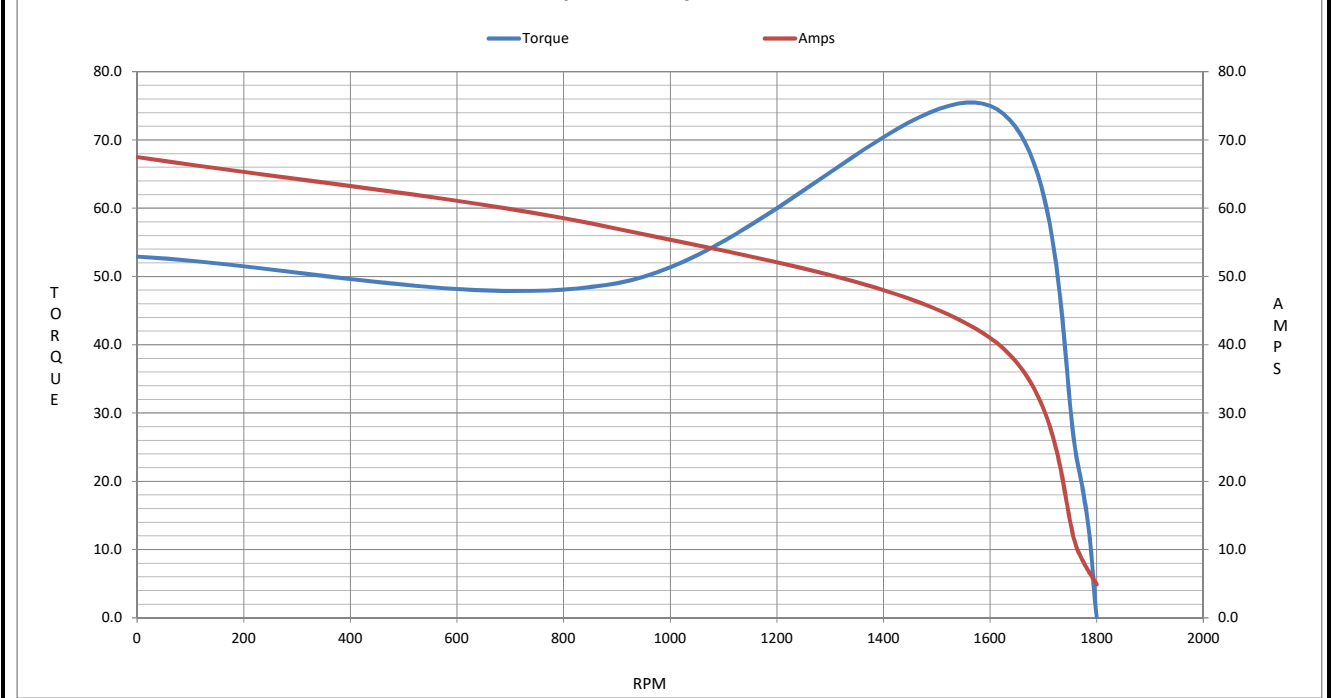
	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1600	1765	1800
Current (Amps)	67.5	57.0	41.0	9.8	4.9
Torque (ft-lb)	52.9	49.0	75.0	22.3	0.00

Information Block

HP	7.5			
Sync. RPM	1800			
Frame	213			
Enclosure	TEFC			
Construction	TFR			
Voltage	230/460#190/380 V			
Frequency	60 Hz			
Design	B			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	55 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	0.85 Lb-Ft <sup>2</sup>			
Ref Wdg	K2134279 R1			
Sound Pressure @ 1M	62 dBA			
VFD Rating	NONE			
Outline Dwg	038051-1115			
Conn. Diag	005010.01ME			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.7600	1.1080	2.4580	3.1730	50.4140



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 : 213TTWWD16026

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

Catalog No : N211A

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**