

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 215TTDWD16087

Catalog No: E935A

XRI® General Purpose General Purpose Motor, 5 HP, 3 Ph, 60 Hz, 200 V, 1200 RPM, 215T Frame, DP



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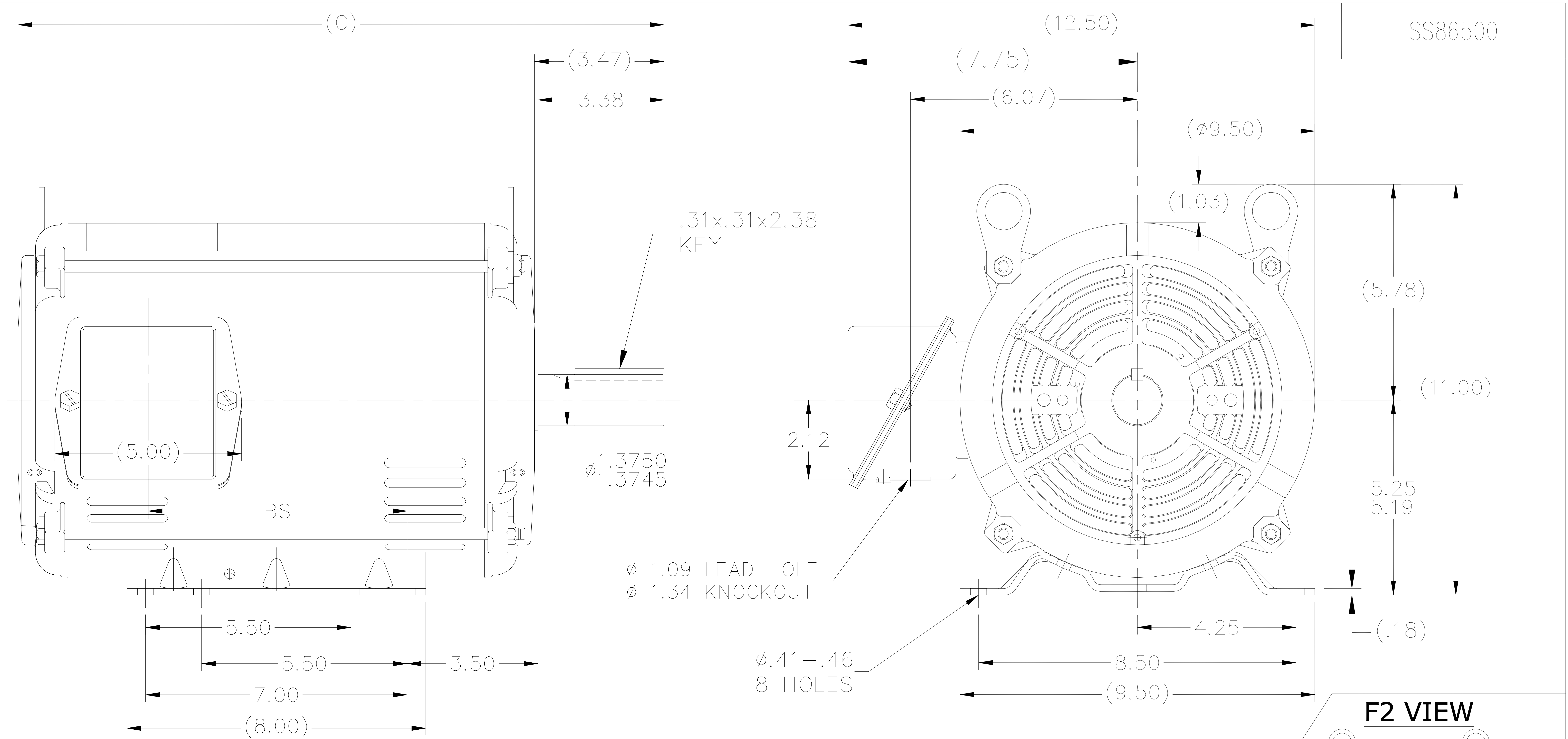
RegalRexnord

Nameplate Specifications

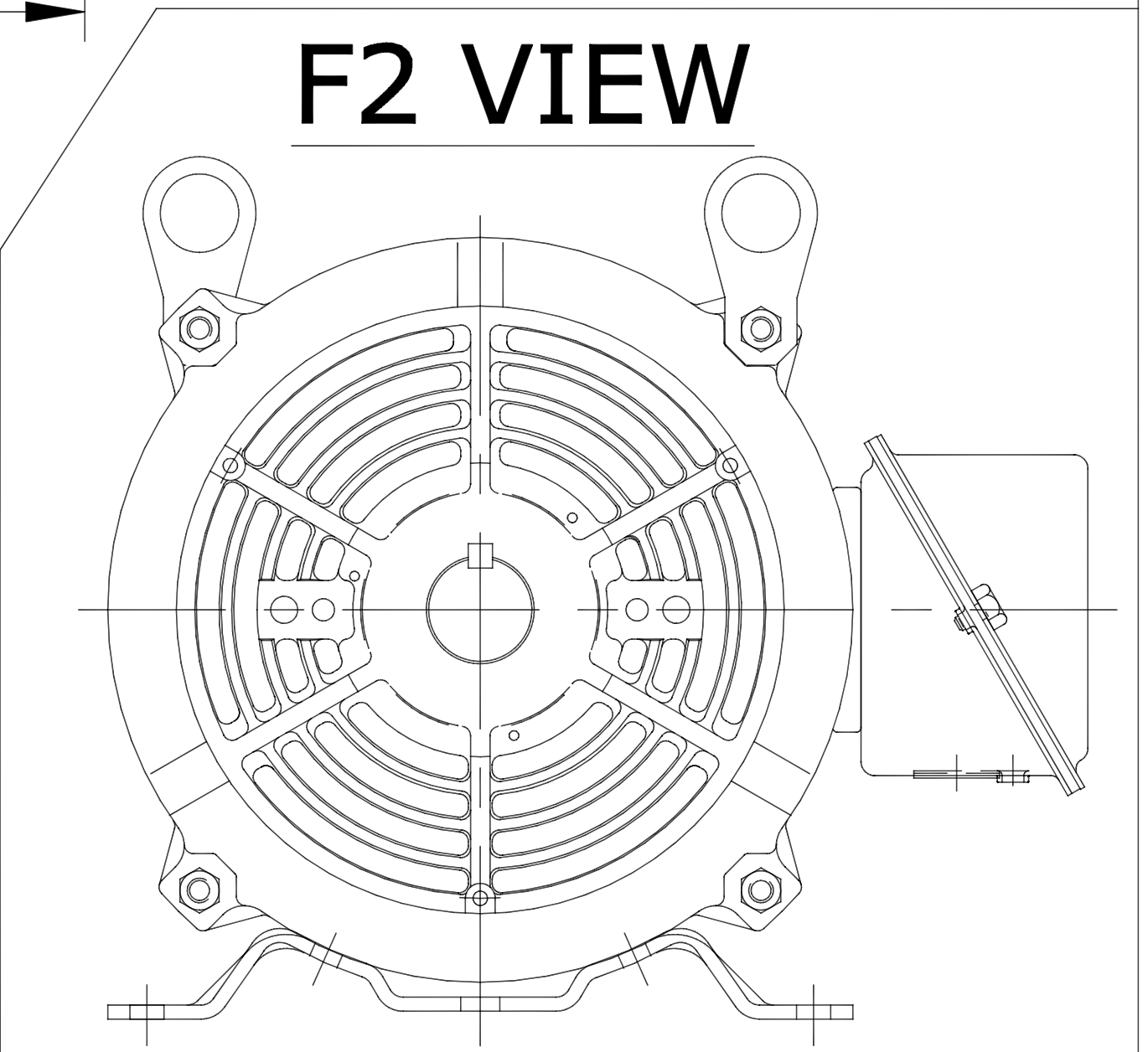
Output HP	5 Hp	Output KW	3.7 kW
Frequency	60 Hz	Voltage	200 V
Current	15.9 A	Speed	1170 rpm
Service Factor	1.15	Phase	3
Efficiency	89.5 %	Power Factor	76
Duty	Continuous	Insulation Class	B
Design Code	B	KVA Code	H
Frame	215T	Enclosure	Drip Proof
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6307	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	Y
CE	Y	IP Code	12
Number of Speeds	1		

Technical Specifications


Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	6	Rotation	Reversible
Resistance Main	1.898 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	18.55 in
Frame Length	12.40 in	Shaft Diameter	1.375 in
Shaft Extension	3.47 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	SS86500-1240	Connection Drawing	005102.01



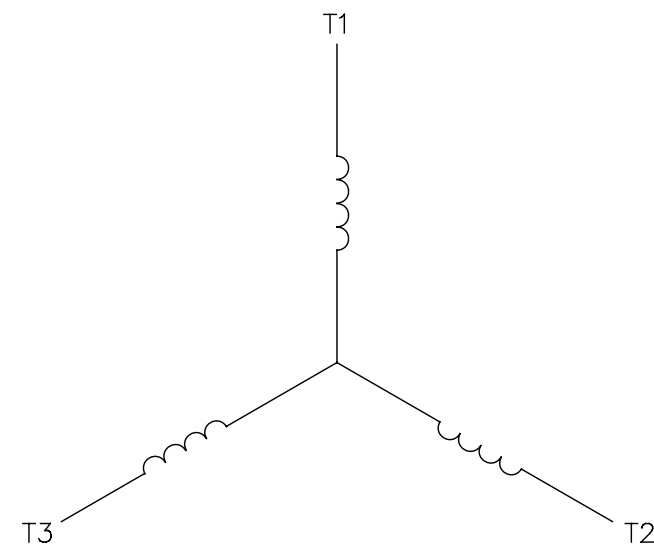
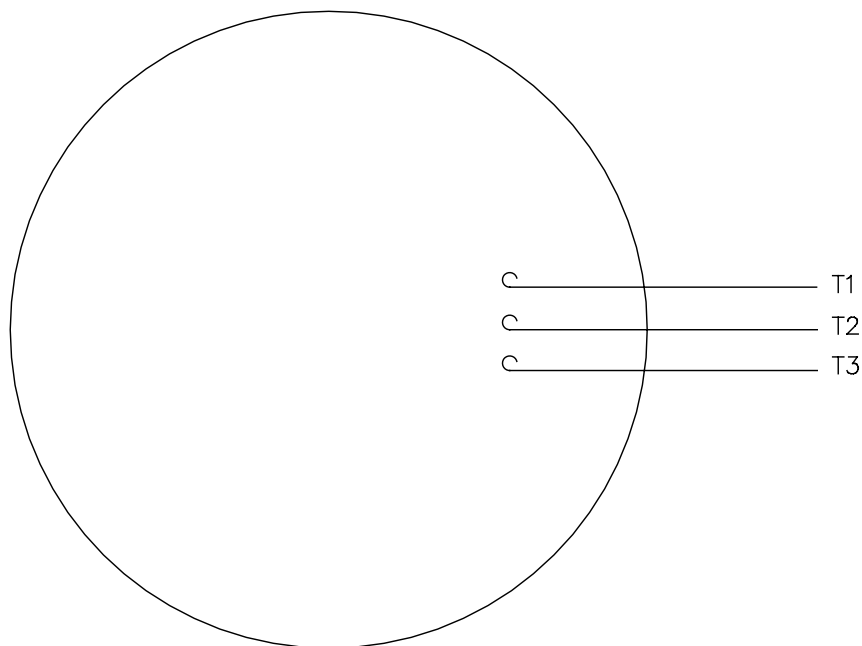
- NOTES:
1. NAMEPLATE TO BE READ FROM C'BOX SIDE OF MOTOR.
 2. BOX CAN BE MOUNTED IN 90° STEPS.
 3. BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°. (EXCEPT AS NOTED.)



DASH	FR.	C	BS	MOUNTING
1115	213/15T	17.30	6.93	F1/F2
1240	213/15T	18.55	8.18	F1 ONLY


14	TITLE BLOCK LOGO CHANGE PER ECO-0078542	MDV 06/09/2015	MDV	TOLERANCES UNLESS SPECIFIED		<div> Regal Beloit America, Inc.</div>				DRAWN SMC 04-13-1993		
13	FOR FRAME 11.15 MOUNTING NOTE ADDED	UD 12/13/12	SR	DEC.	INCHES					CHK MOL 04-04-1993		
12	ADDED: F2 VIEW.	KVN 2/10/2009	SVL	.X	±.1					APPD DRN 04-13-1993		
11	UPDATED DRAWING	TJW 04/27/2007		.XX	±.03	TITLE OUTLINE 210 FR. – BB – TS – DR. PR.				SCALE 1=4		
10	REM'VD. DASH 965 FROM SERIES CN38252	RWR 07-20-2004	ML	.XXX	±.005					REF		
9	REDRAWN IN AUTOCAD	TAT 06-29-2004	ML	.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 ss86500				SIZE	DRAWING NO. PAGE 1 OF 1		REV.
			DIST LB						A	SS86500		14

LINE LEADS



CONNECT LEADS AS FOLLOWS
FOR FOUR CONDUCTOR CORD ()

CORD	L1 (RED)	L2 (WHITE)	L3 (BLACK)	(GREEN)
MOTOR	T1	T2	T3	GROUND

				TOLERANCES UNLESS SPECIFIED		 Regal Beloit America, Inc.			DRAWN	JRW 9/11/75	
				DEC.	INCHES				CHK		
				.X	±.1				APPD	JCW 9/11/75	
08	UPDATED TO REGAL LOGO	SAJ 06/26/15	AJY	.XX	±.01	TITLE EXTERNAL WIRING DIAGRAM TYPE "T" W/O PROTECTOR			SCALE	1=1	
07	UPDATED TO CURRENT STANDARDS	DBT 5/30/97		.XXX	±.005				REF	W-T6343-6	
06	REDRAWN ON CAD; ADDED DECAL NUMBER	SAW 1/24/95		.XXXX	±.0005	MAT'L	DECAL - 004169	FMF	6T17FB7		
NO.	REVISION	BY & DATE	CHK	ANG	±1/2"	FINISH			PREV		
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				DIST	BRF-NLV			A	005102-01	08	

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

CERTIFICATION DATA SHEET**CUSTOMER:****CUSTOMER****PO#:****ORDER #:****MODEL #:** 215TTDWD16087 AA**CONN. DIAGRAM:** 005102.01**CUSTOMER PART****#:****OUTLINE:** SS86500-1240**MOUNTING:** F1 ONLY**WINDING #:** K2156184 DW 4**TYPICAL MOTOR PERFORMANCE DATA**

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
5	3.70	1200	1170	215T	DP	H	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB°C
3	60	200	15.9	ACROSS THE LINE	CONTINUOUS	B4	1.15	40

FULL LOAD EFF:	89.5	3/4 LOAD EFF:	89.6	1/2 LOAD EFF:	88.3	GTD. EFF		ELEC. TYPE
FULL LOAD PF:	76	3/4 LOAD PF:	69.4	1/2 LOAD PF:	57.7	87.5		SQ CAGE IND RUN

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
22.5 LB-FT	105.8	49 LB-FT 218 %	70 LB-FT 311 %	30

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
55 dBA	65 dBA	0.95 LB-FT^2	110 LB-FT^2	15 SEC.	2	162 LBS.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	BALL	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL
6307	6206						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

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INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE NONE
NONE NONE PPR

BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz

PREPARED BY: Anusha Muthyala**DATE:** 09/24/2019 12:46:07 AM

FORM 3531 REV.3 02/07/99

** Subject to change without notice.

Data Sheet

Date: 6/19/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



215TTDWD16087

Submittal

Data @ 200 V

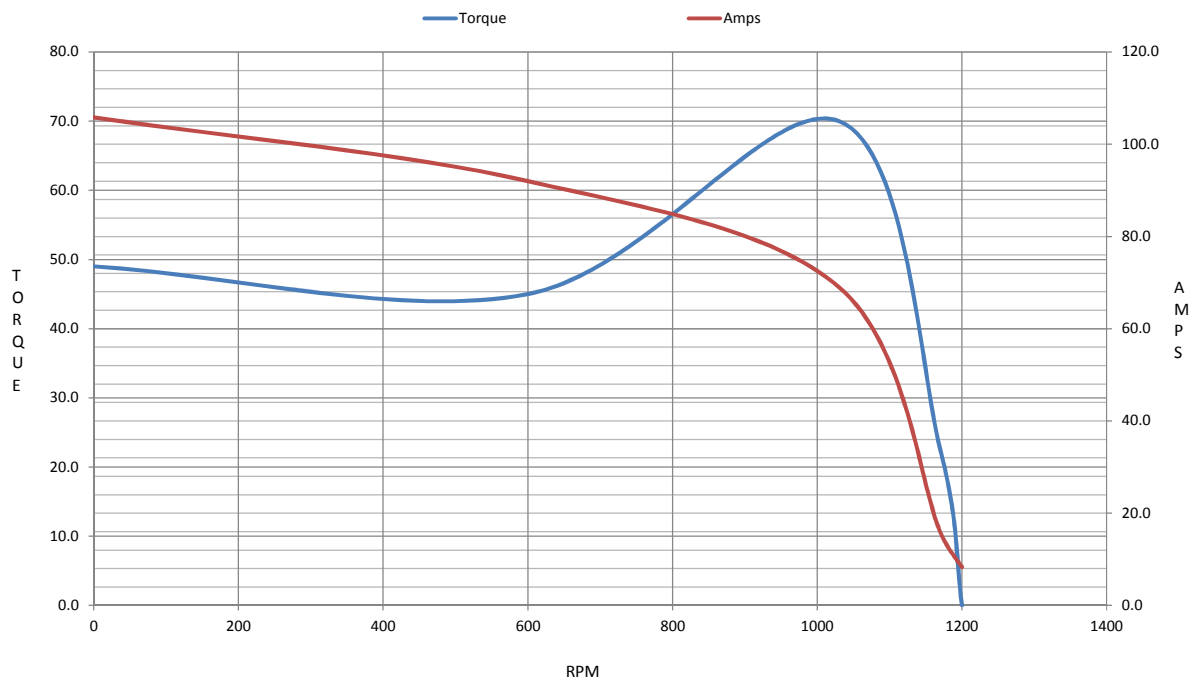
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	8.3	9.0	10.6	13.0	15.9	18.2	19.3	106	
Torque (ft-lb)	0.00	5.5	11.1	16.8	22.5	26.0	28.5	49.0	
RPM	1200	1192	1185	1177	1170	1,164	1160	0	
Efficiency (%)		82.0	88.3	89.6	89.5	88.8	88.8		
P.F. (%)	7.0	36.5	57.7	69.4	76.0	76.9	79.0	45.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block				
Speed (RPM)	0	600	1030	1170	1200	HP	5.0			
Current (Amps)	106	92.0	69.0	15.9	8.3	Sync. RPM	1200			
Torque (ft-lb)	49.0	45.0	70.0	22.5	0.00	Frame	215			
<div><div>— Efficiency (%)</div><div>— P.F. (%)</div><div>— Current (Amps)</div><div>EFFICIENCY (%)</div><div>P.F. (%)</div><div>CURRENT (AMPS)</div><div>LOAD</div></div>						Enclosure	DP			
						Construction	TDW			
						Voltage	200 V			
						Frequency	60 Hz			
						Design	B			
						LR Code letter	H			
						Service Factor	1.15			
						Temp Rise @ FL	30 ° C			
						Duty	CONT			
						Ambient	40 ° C			
						Elevation	1,000 feet			
						Rotor/Shaft wk ²	0.95 Lb-Fl ²			
						Ref Wdg	K2156184 DW			
						Sound Pressure @ 1M	55 dBA			
						VFD Rating	NONE			
						Outline Dwg	SS86500-1240			
						Conn. Diag	005102.01			
Additional Specifications:										
0										
0										
EQUIV CKT (OHMS / PHASE)										
R1		R2		X1		X2		Xm		
0.2270		0.2020		0.9060		1.0010		13.5520		

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 : 215TTDWD16087

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

Catalog No : E935A

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