

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 213TTFWD6001

Catalog No: E2015A

XRI® General Purpose General Purpose Motor, 7.50 & 7.50 HP, 3 Ph, 60 & 50 Hz,
208-230/460 & 200/400 V, 3600 & 3000 RPM, 213TC Frame, TEFC



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RegalRexnord

Nameplate Specifications

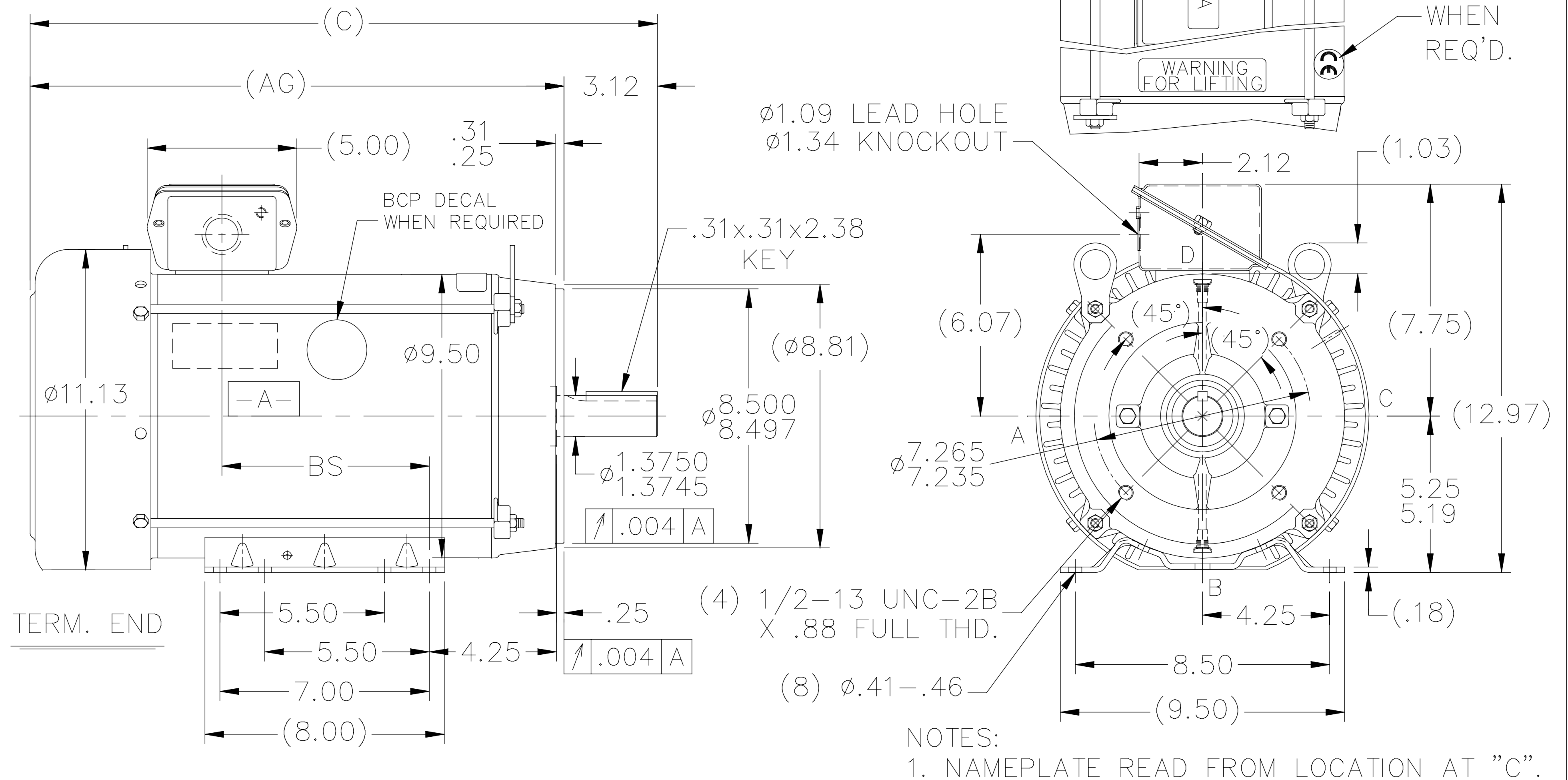
Phase	3	Output HP	7.50 & 7.50 Hp
Output KW	5.6 & 5.6 kW	Voltage	208-230/460 & 200/400 V
Speed	3525 & 2920 rpm	Service Factor	1.15 & 1.0
Frame	213TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	89.5 & 87.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	19.7-18.6/9.3 & 21/10.5 A	Power Factor	84.6
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
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	2	Rotation	Reversible
Resistance Main	.1725 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	19.47 in
Frame Length	9.65 in	Shaft Diameter	1.375 in
Shaft Extension	3.12 in	Assembly/Box Mounting	F3
Connection Drawing	005010.01	Outline Drawing	SS88794-965

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

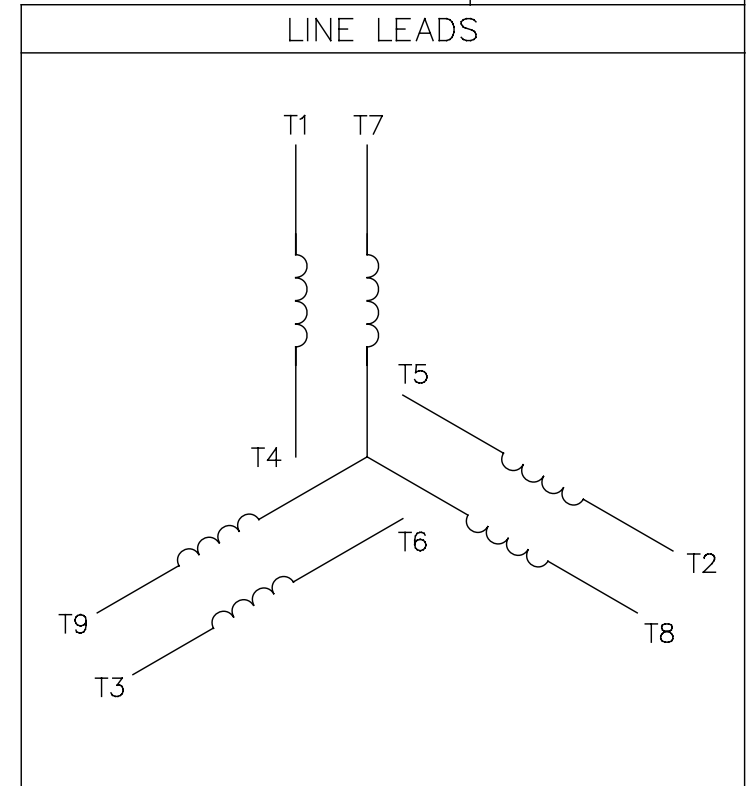
SS88794



			TOLERANCES UNLESS SPECIFIED		 Regal Beloit America, Inc.	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.				
NO.	REVISION	BY & DATE	CHK	ANG	±7’30”	FINISH				
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. SS88794	PAGE OF	REV. 1
			DIST LB							

005010-01

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

				TOLERANCES UNLESS SPECIFIED		 Regal Beloit America, Inc.			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		
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 #: 213TTFWD6001
CONN. DIAGRAM: 005010.01 CAT #: E2015A
OUTLINE: SS88794-965 CUSTOMER PART #: _____
WINDING: K2132124 NONE 2 MOUNTING: F3
SPEED: _____

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
7.5	5.6	3600	3525	213TC	TEFC	TFW	H	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	208-230/460#200/400	19.7-18.6/9.3&21/10.5	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	89.5	3/4 LD EFF	88.9	1/2 LD EFF	88.1	GTD EFF	89.5	ELECT. TYPE	SQ CAGE INV RATED
F.L. PF	84.6	3/4 LD PF	79.7	1/2 LD PF	68.4				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)	
11.2 LB-FT	63.0	19.3 LB-FT 172%	33.0 LB-FT 295%	55	

@ 3 FT.	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
72 dBA	81 dBA	0.55 LB-FT²	12 LB-FT²	20 SEC.	2	165 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
1.055	0.575	2.544	1.414	56.7	0.150	ODE

* N O T E *		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



213TTFWD6001

Submittal

Data @ 460 V

Motor Load Data

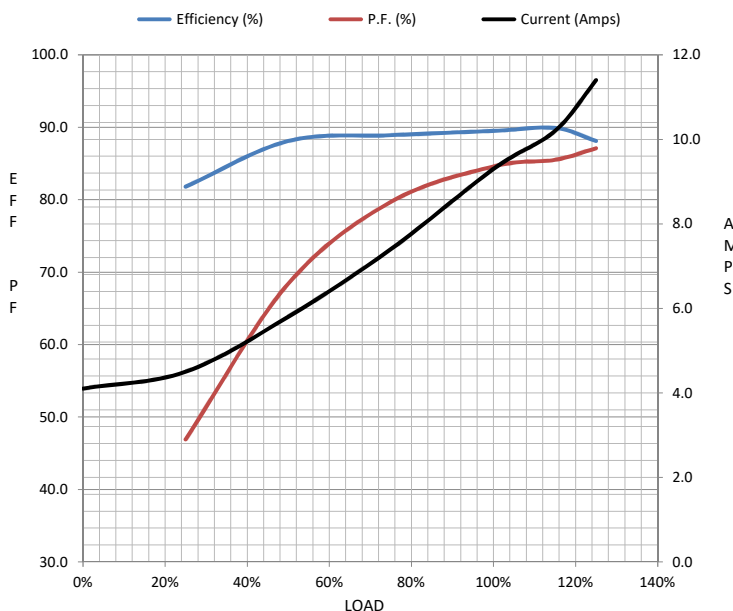
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	4.1	4.5	5.8	7.4	9.3	10.2	11.4	63.0	
Torque (ft-lb)	0.00	2.70	5.5	8.3	11.2	12.5	14.0	19.3	
RPM	3600	3585	3565	3545	3525	3,520	3505	0	
Efficiency (%)		81.8	88.1	88.9	89.5	89.9	88.1		
P.F. (%)	8.0	46.9	68.4	79.7	84.6	85.5	87.1	0.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	552	3130	3525	3600
Current (Amps)	63.0	60.0	38.0	9.3	4.1
Torque (ft-lb)	19.3	19.0	33.0	11.2	0.00

Information Block

HP	7.5			
Sync. RPM	3600			
Frame	213			
Enclosure	TEFC			
Construction	TFR			
Voltage	208-230/460#200/400 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 wk²	0.55 Lb-Ft²			
Ref Wdg	K2132124 NONE			
Sound Pressure @ 1M	72 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	SS88794-965			
Conn. Diag	005010.01			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.0550	0.5750	2.5440	1.4140	56.7000



Speed -Torque Curve

