

# PRODUCT INFORMATION PACKET

Model No: 215TTGCD6526

Catalog No: U007C

Explosion Proof Motor, 10 HP, 3 Ph, 60 Hz, 230/460 V, 1800 RPM, 215T Frame, EPFC



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### Nameplate Specifications

Output HP	10 Hp	Output KW	7.5 kW
Frequency	60 Hz	Voltage	230/460 V
Current	25.0/12.5 A	Speed	1762 rpm
Service Factor	1	Phase	3
Efficiency	91.7 %	Power Factor	81.3
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Frame	215T	Enclosure	Explosion Proof Fan cooled
Thermal Protection	Thermostat	Ambient Temperature	50 °C
Drive End Bearing Size	6307	Opp Drive End Bearing Size	6208
UL	UL Listed And CSA Certified	CSA	Y
CE	N	IP Code	54
Hazardous Location	DIV 1 EXP PROOF CL I GR CD CL II GR FG T3C	Number of Speeds	1

### Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	1.155 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 ONLY		
Outline Drawing	037660-1212	Connection Drawing	EE7308T

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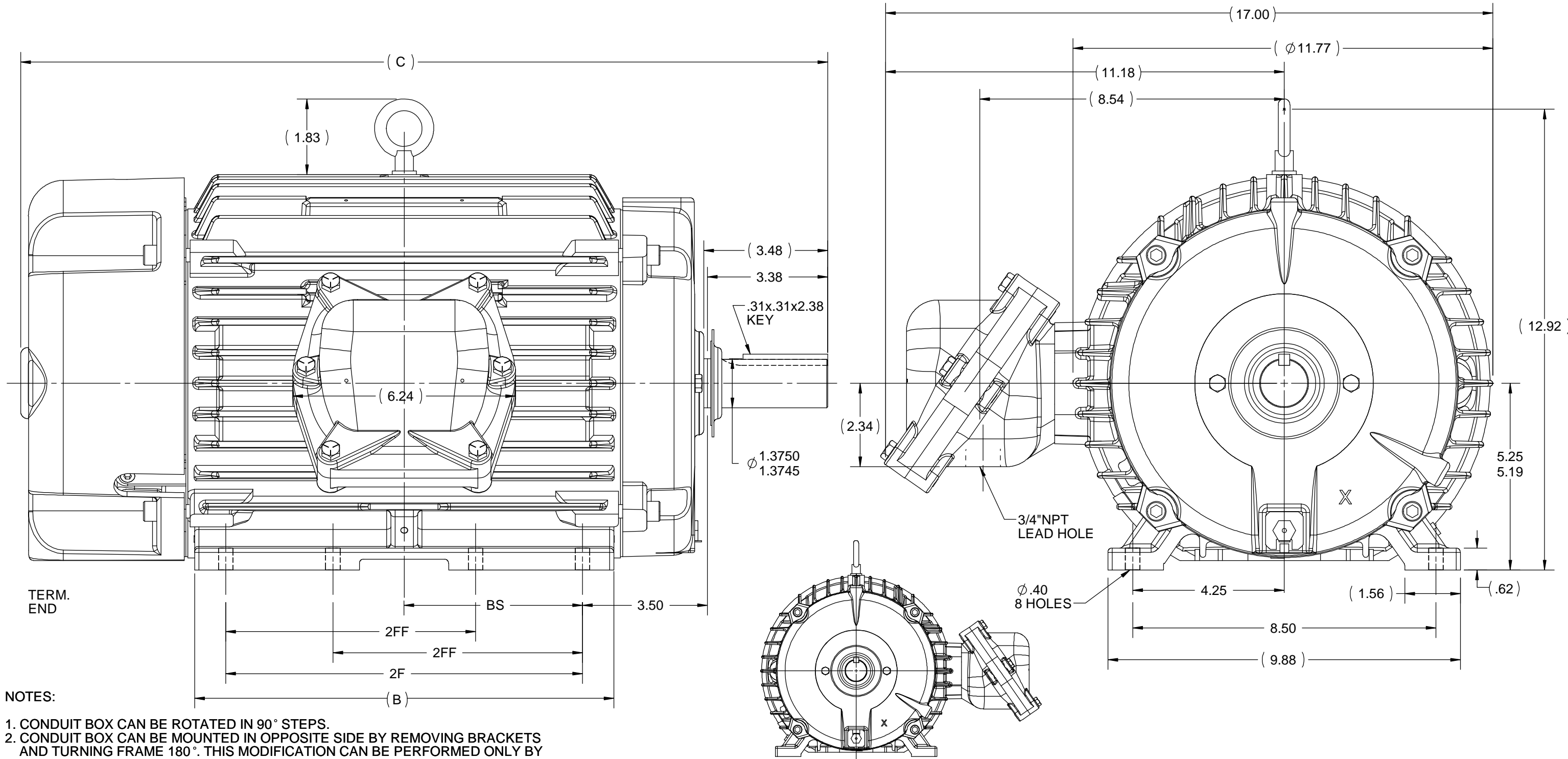
1

B

B

A

A




NOTES:

- CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
- CONDUIT BOX CAN BE MOUNTED IN OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°. THIS MODIFICATION CAN BE PERFORMED ONLY BY THE ORIGINAL EQUIPMENT MANUFACTURER, OR BY A FACILITY THAT IS COVERED UNDER UNDERWRITERS LABORATORIES INC. CATEGORY PTKQ, TITLED "MOTOR AND GENERATORS,. REBUILT FOR USE IN HAZARDOUS LOCATION".
- NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

F2 MOUNTING

1212	215	22.63	11.76	10	7	5
912	213/215	19.63	8.63	7	5.5	3.5
DASH	FRAME	C	B	2F	2FF	BS

DRAWING REVISION G	REVISION BY MVG	DATE 02/08/2019	TOLERANCES UNLESS OTHERWISE SPECIFIED:				DRAWN BY AK 10/28/2009	 Regal Beloit America, Inc.		
ECO ECO-0139404	APPROVED BY SR	DATE 02/08/2019	DEC.	INCH	mm	ANGLE	DATE			
ECO DESCRIPTION OUTLINE UPDATED AS PER ECR-0149056			.X	±0.1	[±2.5]	±7° 30"	APPROVED BY	DESCRIPTION OUTLINE		
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			.XXX	±0.005	[±0.127]		REFERENCE SS84370	MATERIAL	PROCESS/FINISH	
			.XXXX	±0.0005	[±0.0127]		THIRD ANGLE PROJECTION	SIZE B	DRAWING NUMBER 037660	SHEET 1 OF 1
			REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45° CORNER FILLETS: R.02 [0.51] MACHINED SURFACES: 200 INCH/mm 5.1							
			mm SHOWN IN [BRACKETS]							

## HIGH VOLTAGE



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

THREE PHASE  
DUAL VOLTAGE MOTOR

## 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
ECO ECO-0159915	APPROVED BY DR	DATE 01-15-2019

ECO DESCRIPTION  
ADDED TERMINAL CONNECTION DIAGRAM

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DRAWN BY SMC	DATE 05-13-1992
APPROVED BY TB	DATE 05-13-1992
REFERENCE EE7308/EE7300	THIRD ANGLE PROJECTION



Regal Beloit America, Inc.

## DESCRIPTION

**CONN DIAGRAM-INTERNAL**  
3 PHASE - DUAL VOLTAGE MOTOR

MATERIAL	PROCESS/FINISH
SIZE A	DRAWING NUMBER EE7308T
	SHEET 1 OF 1



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

DATA VOLTS: 460

### CERTIFICATION DATA SHEET

CUSTOMER:  
ORDER #:  
CONN. DIAGRAM: EE7308T  
OUTLINE: 037660-1212  
WINDING: HA31324013 R1 2  
SPEED:

CUSTOMER P.O. #:  
REFERENCE MODEL #: 215TTGCD6526  
CAT #: U007C  
CUSTOMER PART #:  
MOUNTING: F1 ONLY  
FAN: 504205B

### TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN	
10	7.5	1800	1762	215T	EPFC	TFC	H	B	
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	25/12.5&23.2/11.6	ACROSS THE LINE	CONT	F	1.0	50	3300
F.L. EFF		91.7	3/4 LD EFF	91.8	1/2 LD EFF	90.8	ELECT. TYPE		
F.L. PF		81.3	3/4 LD PF	76.6	1/2 LD PF	66.0	SQ CAGE IND RUN		
F.L. TORQUE		LR AMPS @ 460 V		L.R. TORQUE		B.D. TORQUE		F.L. RISE (° C)	
29.8 LB-FT		79.0		59.0 LB-FT 198%		74.0 LB-FT 248%		60	
SOUND PRESSURE @		SOUND		ROTOR WK²		MAX. LOAD WK²		SAFE STALL TIME	
62 dBA		71 dBA		1.13 LB-FT²		85 LB-FT²		25 SEC.	
STARTS/HOUR		APPROX.		MOTOR					
2		210 LB.							
*** SUPPLEMENTAL INFORMATION ***									
DE BRACKET TYPE		ODE BRACKET TYPE		MOUNT TYPE		MOTOR ORIENTATION		SEVERE DUTY	
STANDARD		STANDARD		RIGID		HORIZONTAL		PREMIUM SEVERE DUTY	
HAZARDOUS LOCATION		DRIP COVER		SCREENS		PAINT			
DIV 1 EXP PROOF CL I GR CD CL II GR FG T3C		NO		NONE		BLUE - RAL 5003 (EPOXY)			
BEARINGS		GREASE		SHAFT TYPE		SPECIAL DE		SPECIAL ODE	
DE ODE		POLYREX EM		T		NONE		NONE	
BALL BALL		1045 HOT ROLLED (C-204)		CAST IRON					
6307 6208									
THERMOSTATS		PROTECTORS		WDG RTD's		BRG RTD's		THERMISTORS	
TSTATS (N/C)		NOT		NONE		NONE		NONE	
CONTROL		SPACE		HEATERS					
FALSE		NA							
R1 (ohms/ph)		R2 (ohms/ph)		X1 (ohms/ph)		X2 (ohms/ph)		Xm (ohms/ph)	
0.741		0.466		2.147		2.579		46.775	
VIBRATION (in/sec)		FLOAT							
0.080		ODE							
* N O T E S *									
INVERTER TORQUE: NONE									
INV. HP SPEED RANGE: NONE									
ENCODER: NONE									
NONE NONE		NONE PPR							
BRAKE: NONE		NONE							
FT-LB: NA		VOLTAGE: NONE HZ:							
UL: NO LETTER - ALL BRANDS-UL LISTED AND CSA CERTIFIED DIV. 1 XP MOTORS									

FORM: 3531 REV\_4 2/27/06

## Data Sheet

Date: 7/26/2022  
 Customer: \_\_\_\_\_  
 Attention: \_\_\_\_\_  
 Submitted by: \_\_\_\_\_

**marathon**<sup>®</sup>  
 Motors

215TTGCD6526

Submittal

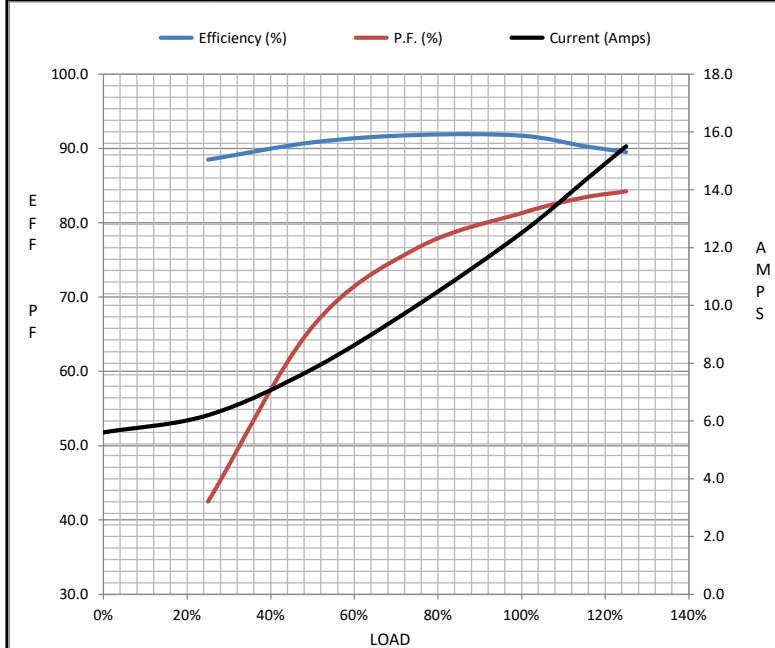
Data @ 460 V

## Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	5.6	6.2	7.8	10.0	12.5	14.3	15.5	79.0	
Torque (ft-lb)	0.00	7.3	14.7	22.2	29.8	34.4	37.4	59.0	
RPM	1800	1792	1782	1772	1762	1,756	1752	0	
Efficiency (%)		88.5	90.8	91.8	91.7	90.3	89.5		
P.F. (%)	9.0	42.5	66.0	76.6	81.3	83.4	84.2	44.0	

## Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block			
Speed (RPM)	0	900	1565	1762	1800	HP	10.0		
Current (Amps)	79.0	73.0	45.0	12.5	5.6	Sync. RPM	1800		
Torque (ft-lb)	59.0	51.0	74.0	29.8	0.00	Frame	215		



Frame	215			
Enclosure	EPFC			
Construction	TFC			
Voltage	230/460#190/380	V		
Frequency	60	Hz		
Design	B			
LR Code letter	H			
Service Factor	1.0			
Temp Rise @ FL	65	° C		
Duty	CONT			
Ambient	40	° C		
Elevation	3,300	feet		
Rotor/Shaft wk²	1.13	Lb-Ft²		
Ref Wdg	HA31324013 R1			
Sound Pressure @ 1M	62	dBA		
VFD Rating	NONE			
Outline Dwg				
Conn. Diag	EE7308T			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.7410	0.4660	2.1470	2.5790	46.7750

## Speed -Torque Curve

