

# PRODUCT INFORMATION PACKET

Model No: 215TBFW7044

Catalog No: Z116

General Purpose Farm Duty Motor, 10 HP, 1 Ph, 60 Hz, 230 V, 1800 RPM, 215T Frame, TEFC



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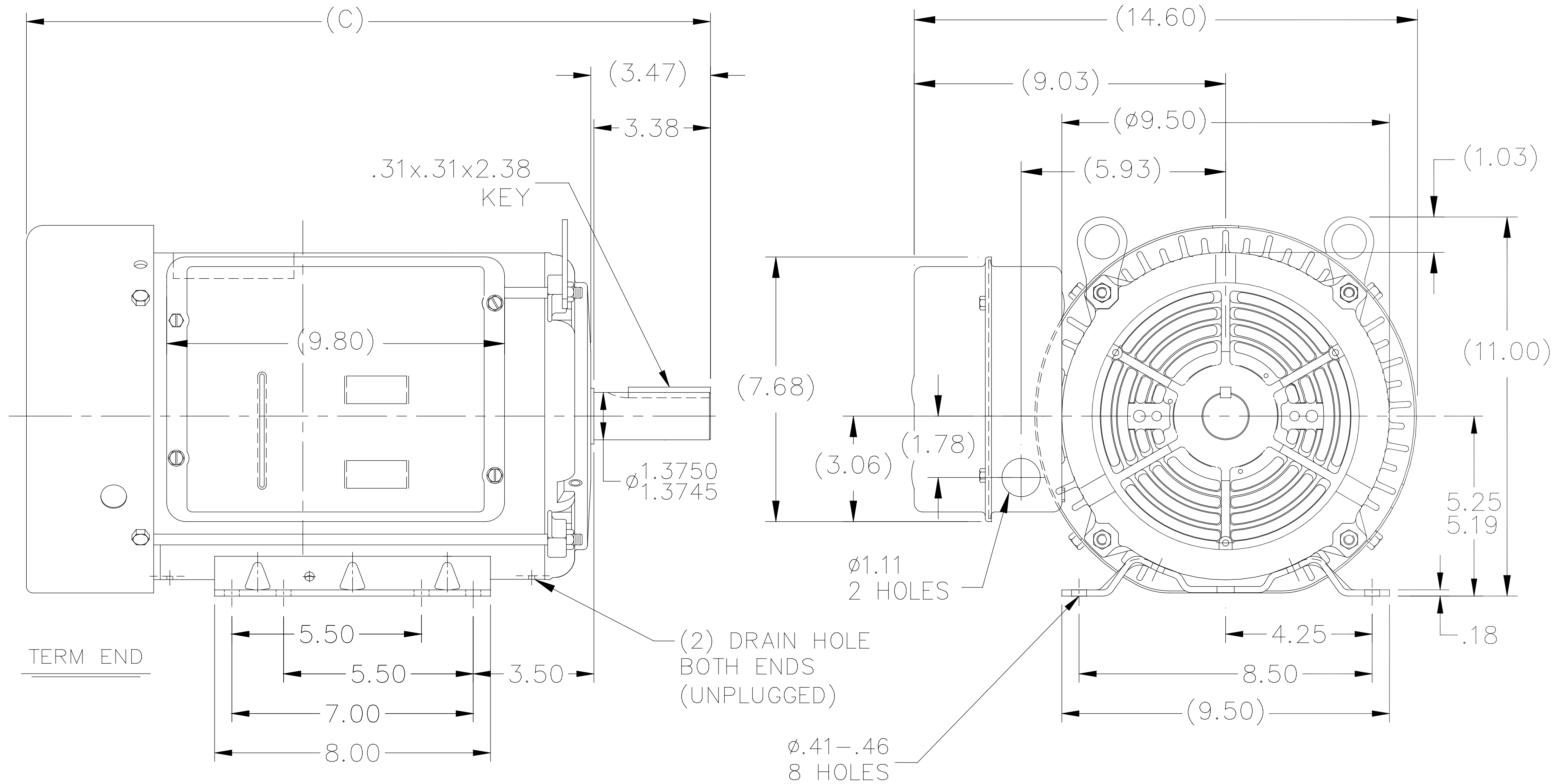
**Nameplate Specifications**

Output HP	<b>10 Hp</b>	Output KW	<b>7.5 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>230 V</b>
Current	<b>40.0 A</b>	Speed	<b>1735 rpm</b>
Service Factor	<b>1</b>	Phase	<b>1</b>
Efficiency	<b>84 %</b>	Power Factor	<b>95</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>L</b>	KVA Code	<b>H</b>
Frame	<b>215T</b>	Enclosure	<b>Totally Enclosed Fan Cooled</b>
Thermal Protection	<b>Manual</b>	Ambient Temperature	<b>40 °C</b>
Drive End Bearing Size	<b>6307</b>	Opp Drive End Bearing Size	<b>6206</b>
UL	<b>Recognized ( Not Protector)</b>	CSA	<b>Y</b>
CE	<b>Y</b>	IP Code	<b>43</b>
Number of Speeds	<b>1</b>		

**Technical Specifications**

Electrical Type	<b>Capacitor Start Capacitor Run</b>	Starting Method	<b>Across The Line</b>
Poles	<b>4</b>	Rotation	<b>Selective Counterclockwise</b>
Resistance Main	<b>0 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>T</b>	Overall Length	<b>21.48 in</b>
Frame Length	<b>12.40 in</b>	Shaft Diameter	<b>1.375 in</b>
Shaft Extension	<b>3.5 in</b>	Assembly/Box Mounting	<b>F1 ONLY</b>
Connection Drawing	<b>A-EE9048PB</b>	Outline Drawing	<b>A-SS86562-1240</b>

SS86562



DASH	FRAME	C
965	213T	18.73
1115	213/215T	20.23
1240	215T	21.48

NOTES:

1. NAMEPLATE TO BE READ FROM C'BOX SIDE OF MOTOR.

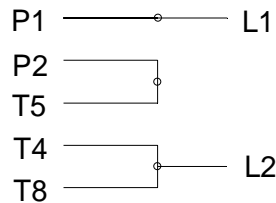
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH	PREV			
7	DRAIN HOLES ADDED	KIR 02/09/16	SS	TOLERANCES UNLESS SPECIFIED			DRAWN SLJ 09-01-1994			
6	UPDATED DRAWING	TJW 04-27-2007		DEC.	INCHES		CHK SMC 09-02-1994			
5	REDRAWN IN AUTOCAD	TAT 06-13-2005	ML	.X	±.1		APPD DRN 09-02-1994			
4	REMOVED 2 ADD'L ø1.38 C'BOX HOLES CN 26624	MRB 07-16-1998		.XX	±.03		SCALE 7=32			
3	ADDED ADD'L ø1.38 HOLES TO C'BOX CN 26000-304	MJD 04-19-1998		.XXX	±.005		REF			
2	UPDATED BASE & C'BOX TO LATEST VERSION	MH 04-14-1997		.XXXX	±.0005	MAT'L.	FMF			
							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 ss86562			SIZE A	DRAWING NO. SS86562	PAGE OF	REV. 7
			DIST LB							



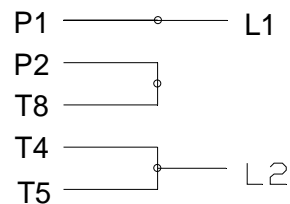
TITLE OUTLINE  
210T FR. - BB - TS - TEFC 1ø

CONNECT:  
START CAPACITORS IN SERIES-PARALLEL.  
RUN CAPACITORS IN PARALLEL

C.W. ROTATION

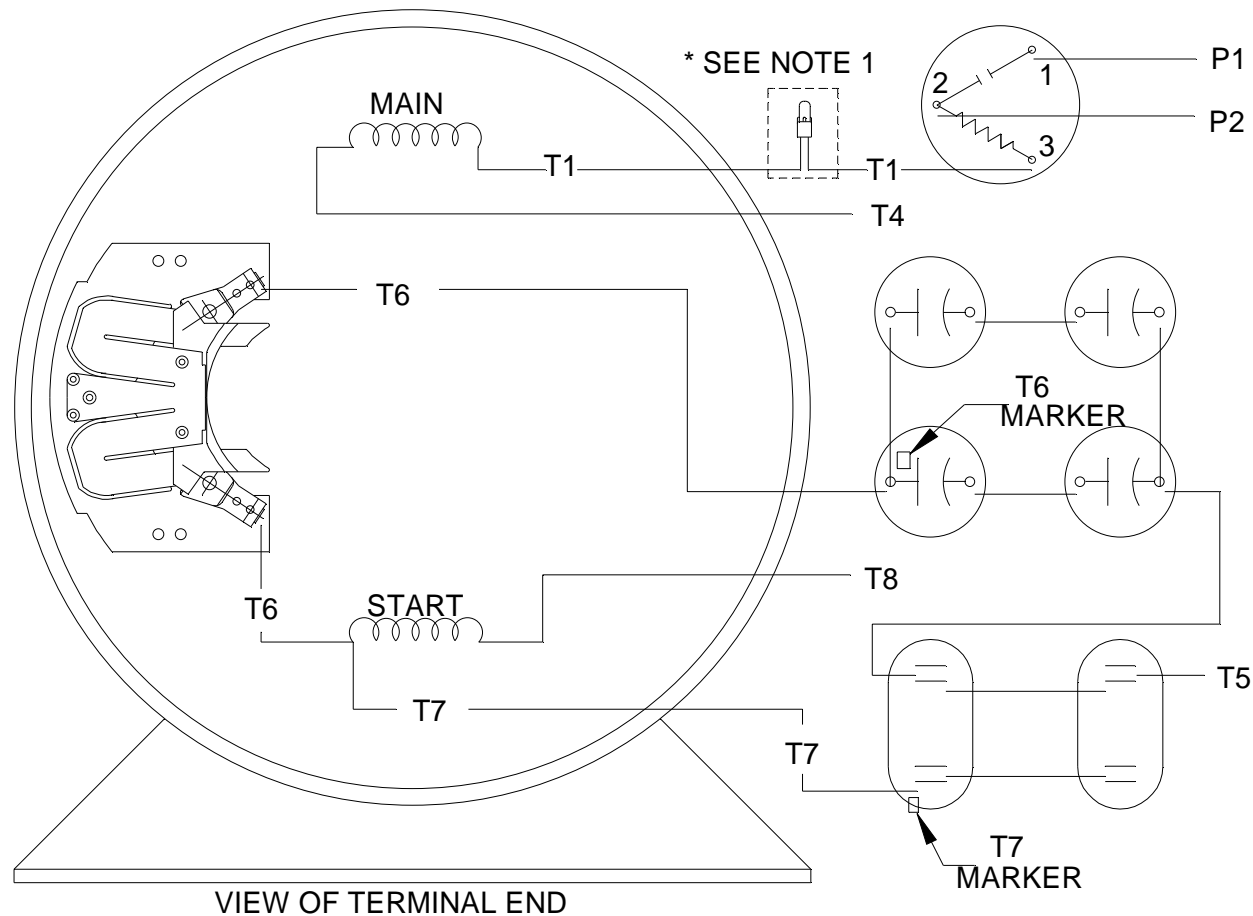


C.C.W. ROTATION

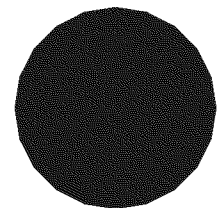
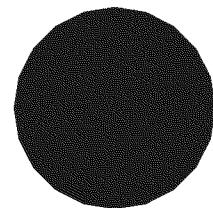
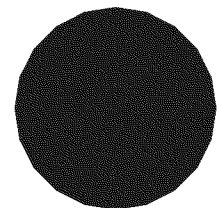
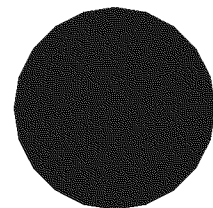
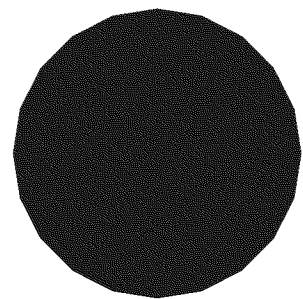
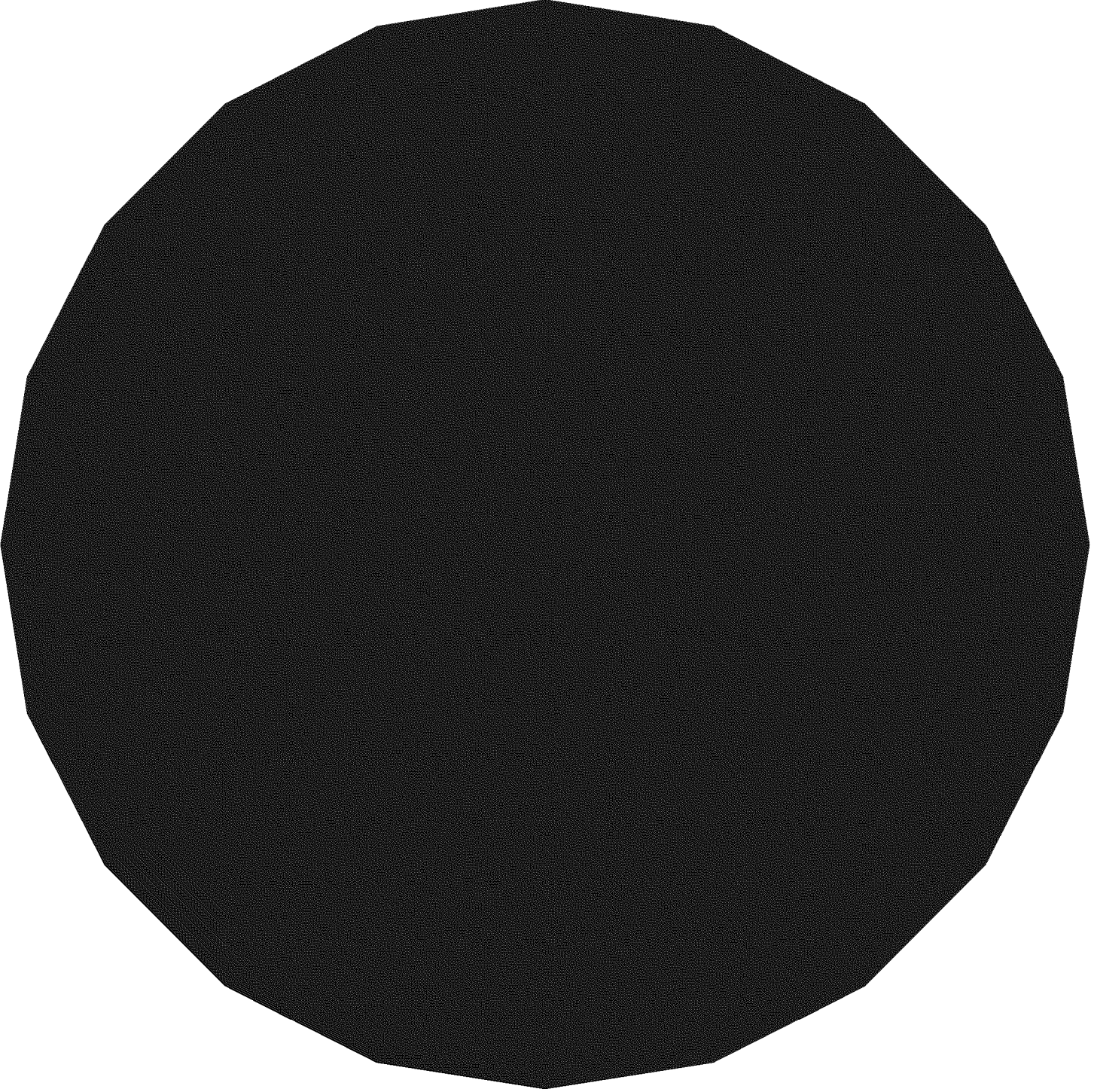


SINGLE VOLTAGE  
CAPACITOR START  
CAPACITOR RUN  
REVERSIBLE

NOTE:  
1. USE PRESURE CONNECTOR  
ONLY IN MT2 PLANT



		TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC		DRAWN MJD 07-10-1998		
		DEC.	INCHES			CHK	MRB 07-10-1998	
		.X	±.1	TITLE CONNECTION DIAGRAM		APPD	DR 07-13-1998	
		.XX	±.02			SCALE	1=1.25	
		.XXX	±.005			REF		
01	ADDED PRESSURE CONNECTOR IN MT2 MODEL	NB	10/5/2011	AK	.XXXX	±.0005	MAT'L.	
NO.	REVISION	BY & DATE	CHK	ANG	±7'30'	FINISH	PREV	
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		DIST				A	A-EE9048PB	01



**CERTIFICATION DATA SHEET**

**Model#:** 215TBFW7044 BB  
**CONN. DIAGRAM:** A-EE9048PB  
**OUTLINE:** A-SS86562-1240

**WINDING#:** BK104127 NONE 2  
**ASSEMBLY:** F1 ONLY

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
10	7.5	1800	1735	215T	TEFC	H	L

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
1	60	230	40	ACROSS THE LINE	CONTINUOUS	F4	1.0	40	3300

FULL LOAD EFF: 84	3/4 LOAD EFF: 86	1/2 LOAD EFF: 83	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 95	3/4 LOAD PF: 94.5	1/2 LOAD PF: 91.5	0	CAP START CAP RUN	8.3

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
30 LB-FT	275	90 LB-FT 300	77 LB-FT 257	95

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
72 dBA	82 dBA	0 LB-FT^2	- LB-FT^2	- SEC.	-	0 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	BLACK (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL
6307	6206						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	MANUAL	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

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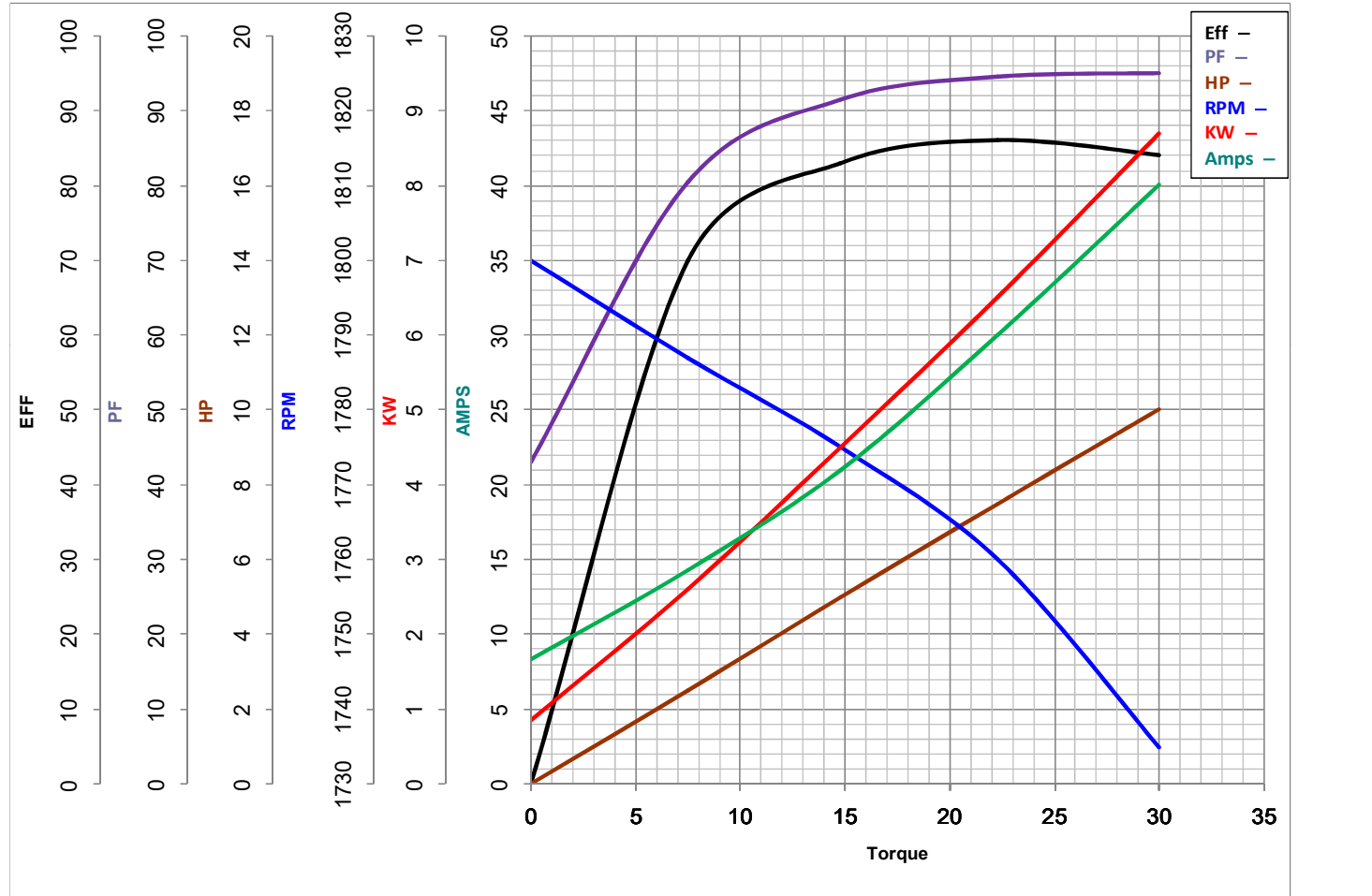
INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE
ENCODER: NONE
NONE NONE
NONE NONE PPR
BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
- FT-LB NONE V NONE Hz

DATE: 06/21/2017 10:20:17 AM  
 FORM 3531 REV.3 02/07/99  
 \*\* Subject to change without notice.



**MARATHON ELECTRIC CORPORATION**  
TYPICAL PERFORMANCE CURVE for AC MOTOR

Customer \_\_\_\_\_ Curve at 230 Volts HP 10.00 PHASE 1  
 Model No 215TBFW7044 60 HZ  
10 HP VOLTS 230  
 Catalog No Z116 HZ 60 RPM 1735



FL TORQUE	<u>30</u>	Lb.Ft	FL AMPS	<u>40</u>	
BD TORQUE	<u>77.0</u>	Lb.Ft	PU TORQUE	<u>53.0</u>	Lb.Ft
LR TORQUE	<u>90</u>	Lb.Ft	LR AMPS	<u>275</u>	
WINDING	BK104127-2		Date	1/17/2019	