

# PRODUCT INFORMATION PACKET

Model No: 215TCDW7003

Catalog No: Z308

Crop Dryer Motor, 10 & 15 HP, 1 Ph, 60 & 60 Hz, 230 & 230 V, 3600 & 3600 RPM, 215TZ Frame, DPAO



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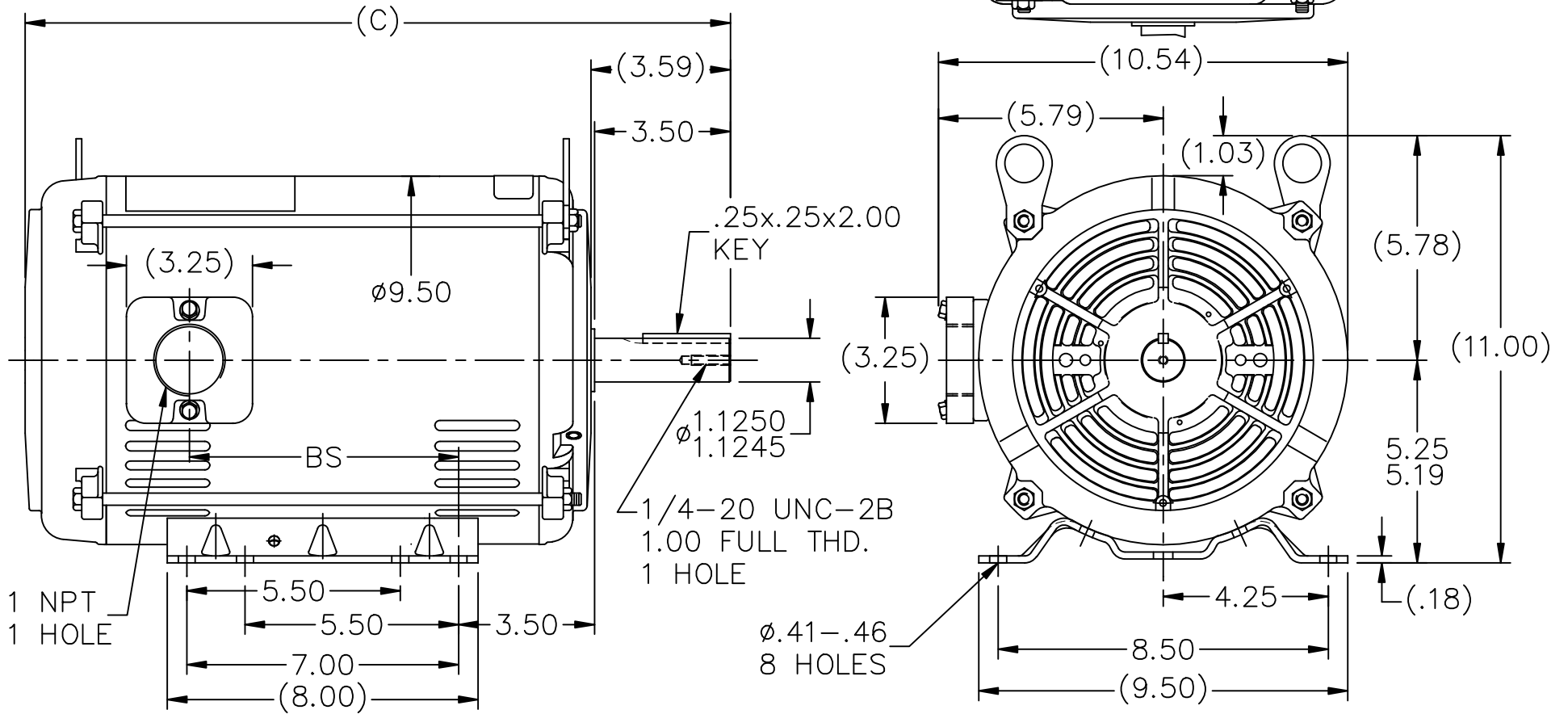
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### Nameplate Specifications

Phase	1	Output HP	10 & 15 Hp
Output KW	7.5 & 11.2 kW	Voltage	230 & 230 V
Speed	3495 & 3495 rpm	Service Factor	1.5 & 1.0
Frame	215TZ	Enclosure	Drip Proof Air Over
Thermal Protection	No Protection	Efficiency	82.5 & 82.5 %
Ambient Temperature	40 °C	Frequency	60 & 60 Hz
Current	46 & 71 A	Power Factor	83.5
Duty	Continuous	Insulation Class	F
Design Code	NO DESIGN CODE	KVA Code	G
Drive End Bearing Size	6307	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	Y
CE	N	IP Code	22
Number of Speeds	1		

### Technical Specifications

Electrical Type	Capacitor Start Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Selective Counterclockwise
Resistance Main	0 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	Single Special Extension	Overall Length	18.16 in
Frame Length	11.15 in	Shaft Diameter	1.125 in
Shaft Extension	3.59 in	Assembly/Box Mounting	F1 ONLY
Connection Drawing	A-EE7090JM	Outline Drawing	A-SS86663-1115

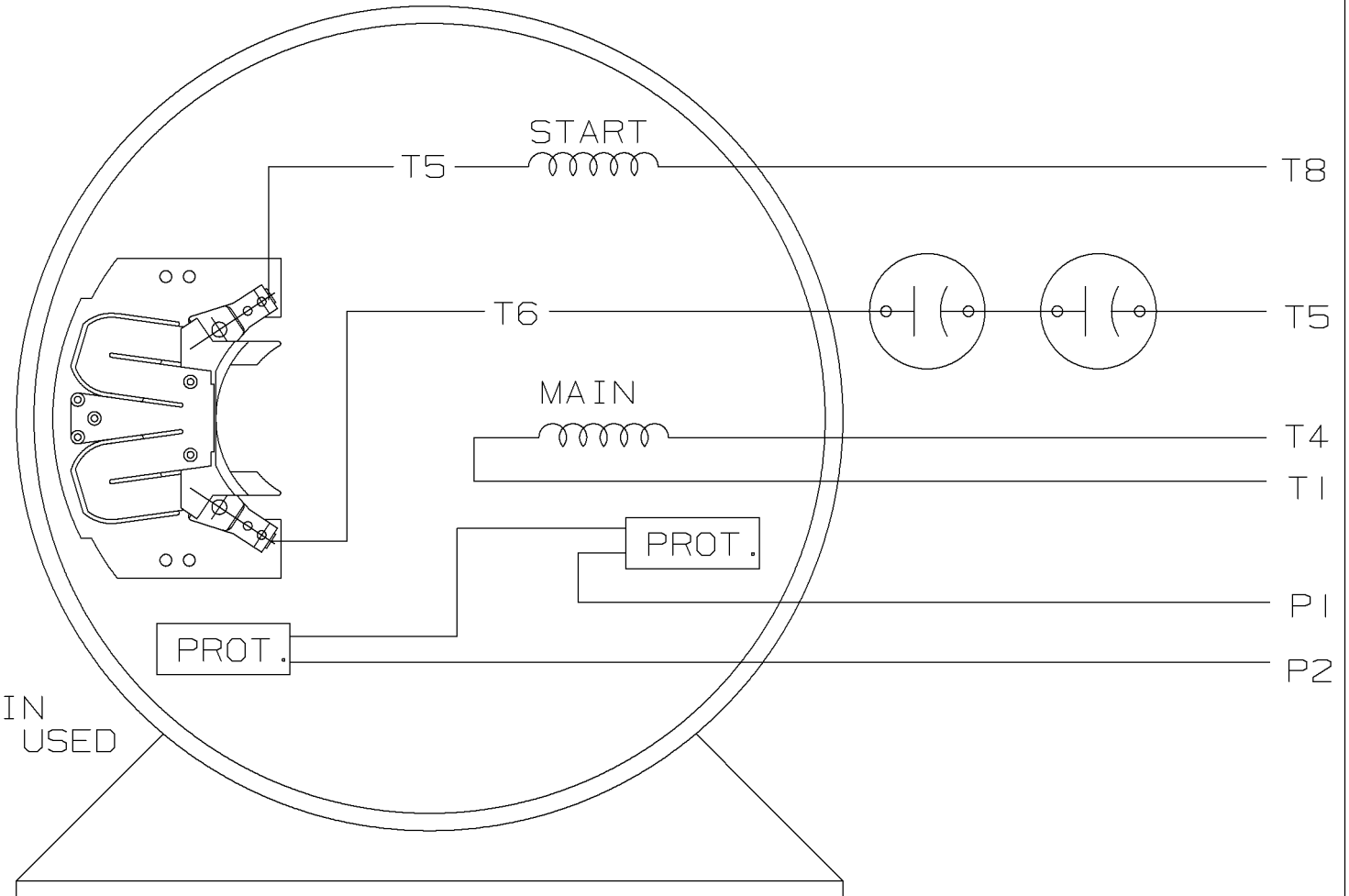
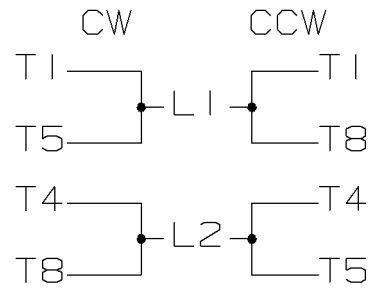


DASH	FR.	C	BS
965	213T	16.66	5.43
1115	213/15T	18.16	6.93
1240	213/15T	19.41	8.18

NOTES:  
 1. NAMEPLATE TO BE READ FROM LEAD EXIT SIDE OF MOTOR.  
 2. SEE MODEL FOR LEAD LENGTH.

			TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC	DRAWN MH 03-17-1997			
			DEC.	INCHES		CHK ML 03-19-1997			
4	UPDATED DRAWING	TJW 04/30/2007	.X	$\pm .1$	TITLE OUTLINE 210T FR.-BB-SS-DR.PR.-SINGLE PHASE	APPD DN 03-19-1997			
3	REDRAWN IN AUTOCAD	TAT 06-13-2005	ML	$\pm .03$		SCALE 1=4			
2	REMOVED MOUNTING AND NOTE 3	DRS 10-09-2001		.XXX $\pm .005$	MAT'L.	REF			
1	NEW DRAWING	MH 03-19-1997		.XXXX $\pm .0005$		FMF			
NO.	REVISION	BY & DATE	CHK	ANG	FINISH	PREV			
			RFP		CAD FILE ss86663	SIZE A	DRAWING NO. SS86663	PAGE OF	REV. 4
			DIST LB						

SINGLE VOLTAGE CAPACITOR START  
MOTOR, ELECTRICALLY REVERSIBLE



CONNECT PROTECTORS IN  
SERIES WHEN TWO ARE USED

VIEW OF TERMINAL END

				✓ MAX. SURFACE ROUGHNESS UNLESS NOTED OTHERWISE	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOL. ON XX± .02 XXX± .005 XXXX± .0005 ANGLES± 7'30"		
				MATL SPEC	180 - 210 SWITCH	DRAWN BY GK	01-10-1987
				FINISH		CHKD BY	
1	01-10-1987	NEW DRAWING	CN-7664C	GK	REFERENCE DRW.	WAUSAU, WISCONSIN 54401	APPD BY
REV	DATE	CHANGE		NAME	PART NAME CONNECTION DIAGRAM	DRWG NO A- EE7090JM	

SHOP BOOK

PURCHASED

DISTRIBUTION - WA - LB - WP - LM - BR

CADD FILE NO.

EE7090JM

ERROR: syntaxerror  
OFFENDING COMMAND: --nostringval--

STACK:

/im  
-savelevel-

**CERTIFICATION DATA SHEET**

**Model#:** 215TCDW7003 AC  
**CONN. DIAGRAM:** A-EE7090JM  
**OUTLINE:** A-SS86663-1115

**WINDING#:** CK10248 NONE 2  
**ASSEMBLY:** F1 ONLY

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
10&15	7.50&11.2	3600	3495&3495	215TZ	DPAO	G	NO DESIGN CODE

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
1	60/60	230#230	46&71	ACROSS THE LINE	CONTINUOUS	F4	1.5/1.0	40	3300

FULL LOAD EFF: 82.5&82.5	3/4 LOAD EFF: 86	1/2 LOAD EFF: 85.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 83.5&83.5	3/4 LOAD PF: 77	1/2 LOAD PF: 65.5	0	CAP START IND RUN	20.4

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
15 LB-FT	254	20 LB-FT 0	40 LB-FT 0	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
- dBA	- 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	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	SGL SPL EXT	1.125 x 3.50 IN SEK	NONE	AISI 1045 (C-240)	ROLLED STEEL
6307	6206						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
TSTATS (N/C)	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

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

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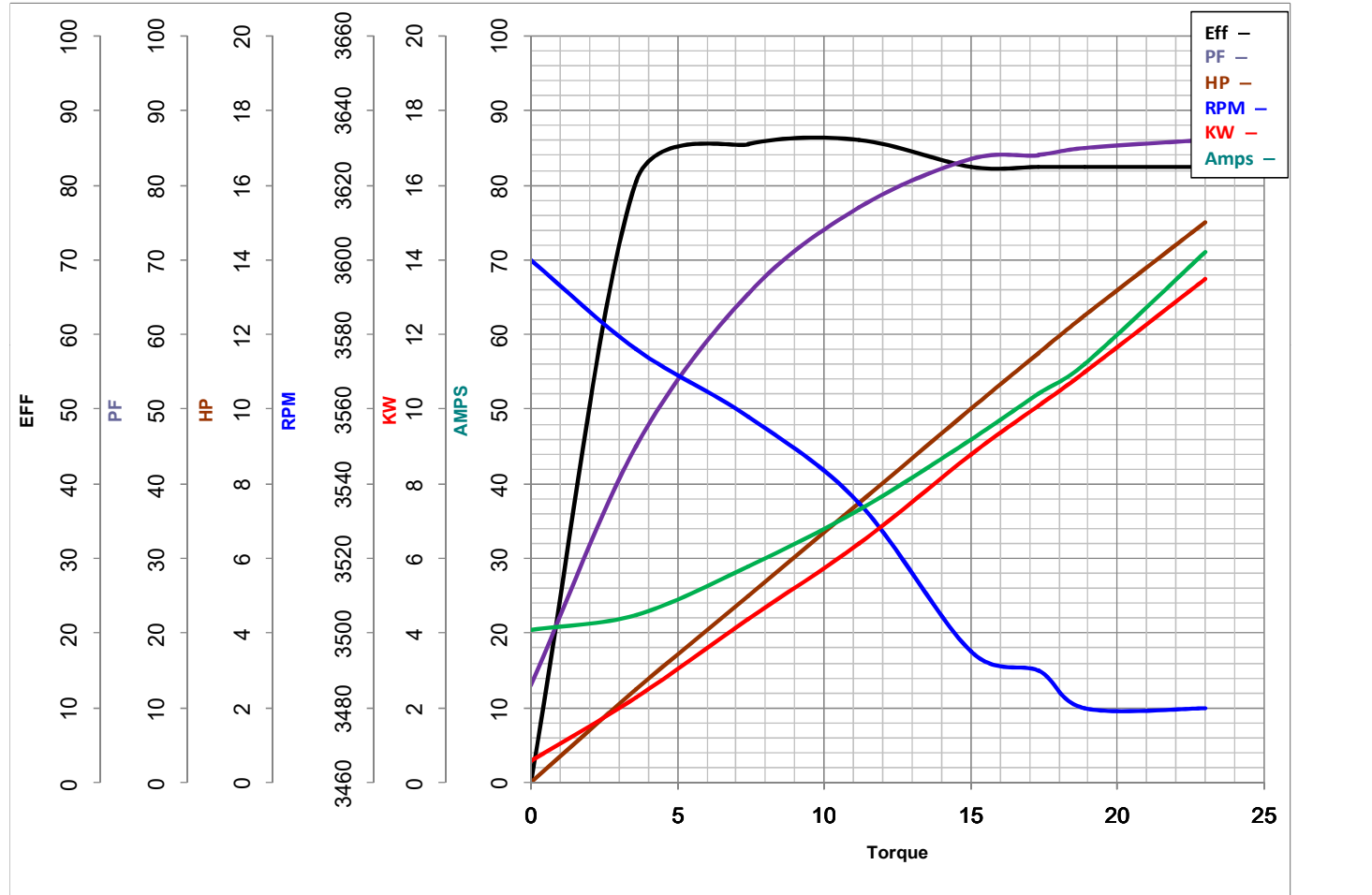
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\*\* Subject to change without notice.



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

Customer \_\_\_\_\_ Curve at 230 Volts HP 10&15 PHASE 1  
 Model No 215TCDW7003 60 HZ  
10 HP VOLTS 230&230  
 Catalog No Z308 HZ 60&60 RPM 3495&3495



Torque in Lb.Ft

FL TORQUE 15 Lb.Ft  
 BD TORQUE 40.0 Lb.Ft  
 LR TORQUE 20 Lb.Ft

FL AMPS 46  
 PU TORQUE 19.0 Lb.Ft  
 LR AMPS 254

WINDING CK10248-2

Date 1/17/2019