

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 215TBDW7013

Catalog No: Z315

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



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RegalRexnord

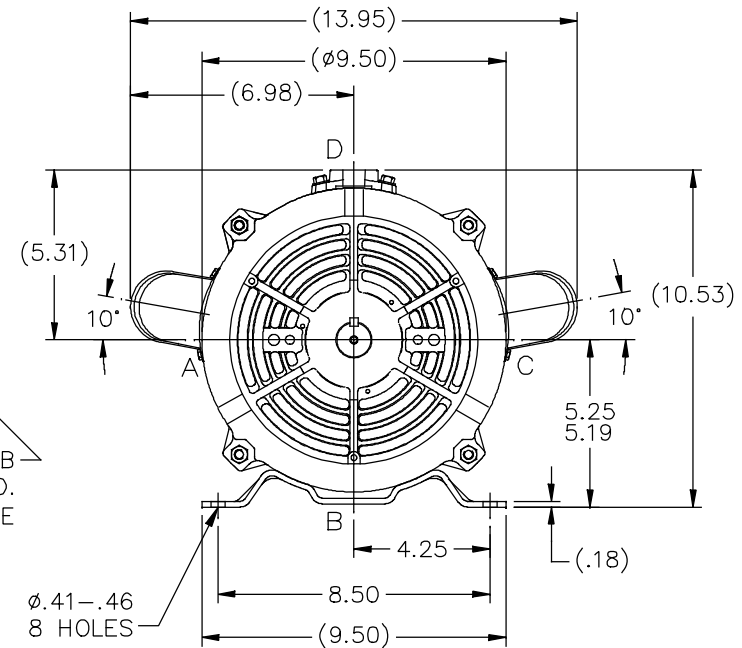
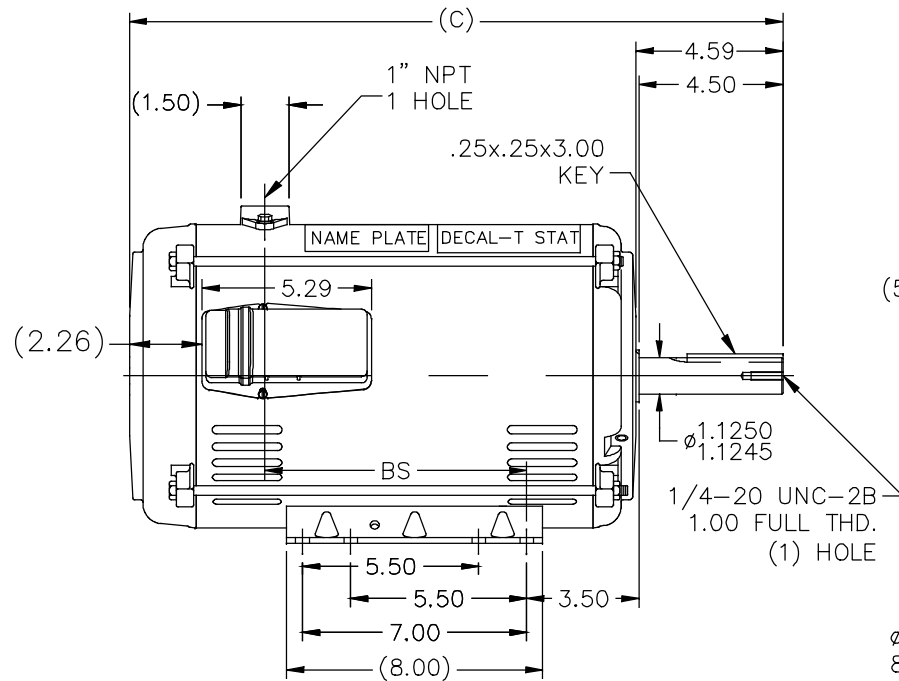
Nameplate Specifications

Phase	1	Output HP	10 & 15 Hp
Output KW	7.5 & 11.2 kW	Voltage	230 & 230 V
Speed	3520 & 3455 rpm	Service Factor	1.5 & 1.0
Frame	215TZ	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	85.5 & 85.5 %
Ambient Temperature	40 °C	Frequency	60 & 60 Hz
Current	39.5 & 61.5 A	Power Factor	82
Duty	Continuous	Insulation Class	F
Design Code	L	KVA Code	G
Drive End Bearing Size	6307	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	Y
CE	N	IP Code	12
Number of Speeds	1		

Technical Specifications

Electrical Type	Capacitor Start Capacitor Run	Starting Method	Across The Line
Poles	2	Rotation	Selective Counterclockwise
Resistance Main	.113 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	20.42 in
Frame Length	12.40 in	Shaft Diameter	1.125 in
Shaft Extension	4.59 in	Assembly/Box Mounting	F3
Outline Drawing	A-SS87934-1240	Connection Drawing	A-EE9048PH

SS87934



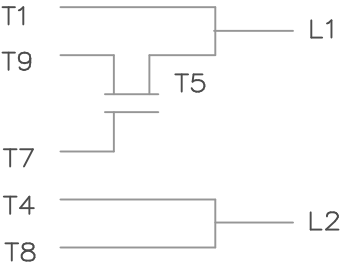
DASH	FR.	C	BS	MOUNTING
1240	213/15T	20.42	8.18	

NOTES:

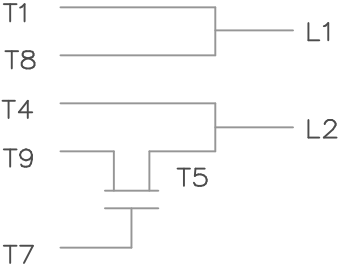
- NAMEPLATE TO BE READ FROM 'A' SIDE OF MOTOR.
- SEE MODEL FOR LEAD LENGTH.

9	DRAWING UPDATED PER ECR-0144149	MVG 11/13/17	ST	TOLERANCES UNLESS SPECIFIED	 Regal Beloit America, Inc.	DRAWN MJD 08-24-1999
8	UPDATED DECAL LOCATION	MVG 06/30/17	DEC.	INCHES		CHK ML 08-25-1999
7	DRAWING UPDATED PER ECR-0132121	MVG 05/08/2017	.X	±.1	TITLE OUTLINE - DR.PR. 210T FR. - BB - SS - SINGLE PHASE	APPD DR 08-25-1999
6	REPLACED ADAPTER PLATE W/LEESON PLATE 07-1734	MSG 11-14-2008	MSG	.XX		SCALE 1=5
5	UPDATED DRAWING	TJW 04/30/2007	.XXX	±.005	MAT'L. FINISH	REF
4	UPDATED TO CURRENT STANDARDS	RLW 07-22-2003	.XXXX	±.0005		FMF
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	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 ss87934	SIZE A
				DIST LB		DRAWING NO. SS87934
						PAGE OF 9
						REV. 9

C.W. ROTATION

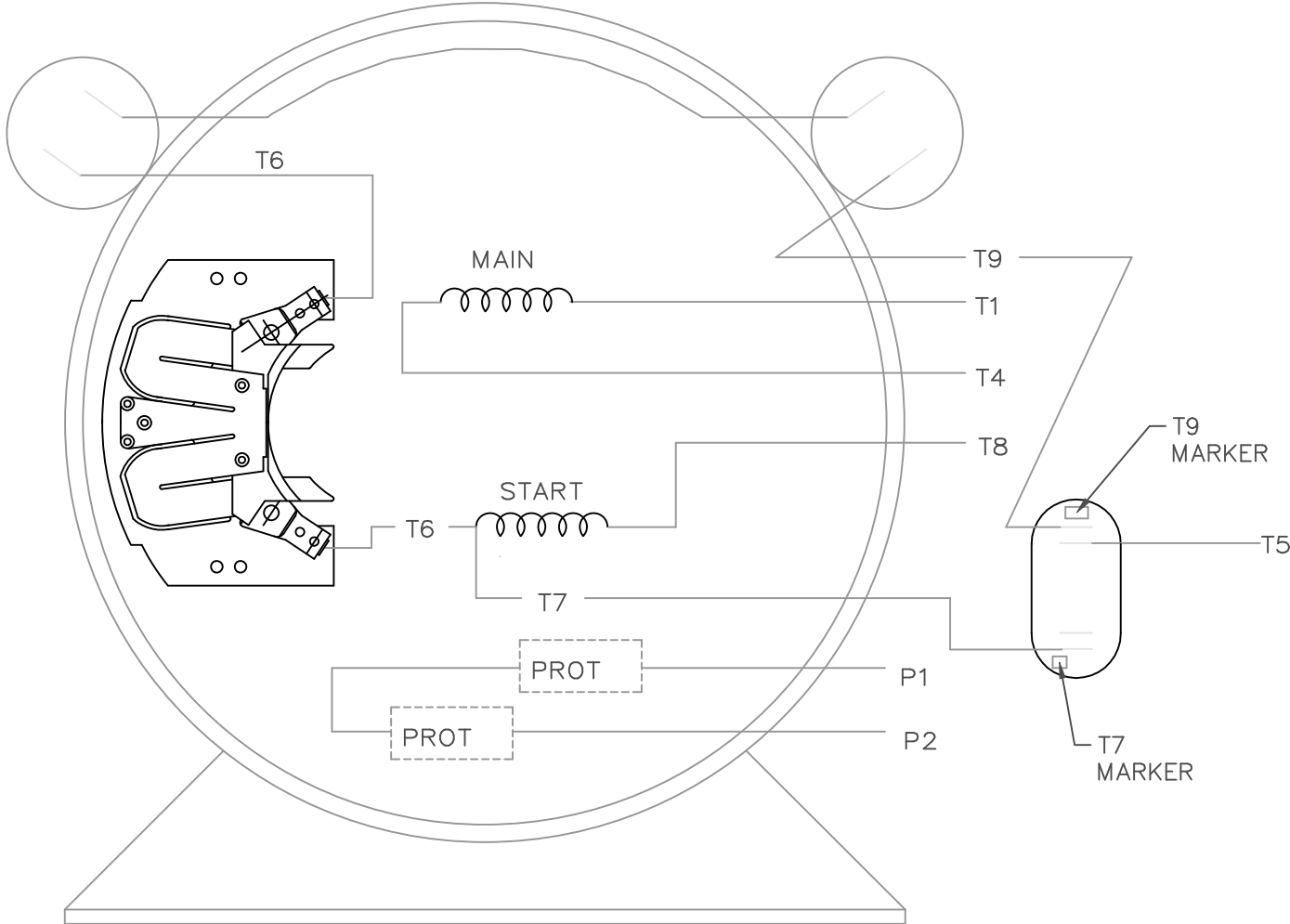


C.C.W. ROTATION



SINGLE VOLTAGE
CAPACITOR START
CAPACITOR RUN
REVERSIBLE

CONNECT:
START CAPACITORS IN SERIES



VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED			ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN		MJD 08/24/99	
				DEC.	INCHES				CHK	ML 08/25/99		
				.X	±.1				APPD	DR 08/26/99		
03	UPDATED TO CURRENT STANDARDS	RLW 7/22/03		.XX	±.01	TITLE CONNECTION DIAGRAM				SCALE	1=1	
02	T5 WAS T9 @ RUN CAP CN 27700-866	MJD 09/27/99		.XXX	±.005					REF		
01	NEW DRAWING MU26425	MJD 08/26/99		.XXXX	±.0005	MAT'L.				FMF		
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		CAD FILE			EE9048PH	SIZE	DRAWING NO.		REV.
			DIST		WA-LB-WP-LM-BR				A	A- EE9048PH		03

CERTIFICATION DATA SHEET

Model#: 215TBDW7013 AC
 CONN. DIAGRAM: A-EE9048PH
 OUTLINE: A-SS87934-1240

WINDING#: BK10270 DR 1
 ASSEMBLY: F3

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
10&15	7.50&11.2	3600	3520&3455	215TZ	DP	E	L

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
1	60/60	230#230	39.5&61.5	ACROSS THE LINE	CONTINUOUS	F3	1.5/1.0	40	3300

FULL LOAD EFF: 85.5&84	3/4 LOAD EFF: 85	1/2 LOAD EFF: 84	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 82&94	3/4 LOAD PF: 93.5	1/2 LOAD PF: 90.5	0	CAP START CAP RUN	11.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
22.7 LB-FT	322	36.2 LB-FT 159	48.3 LB-FT 213	0

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
- dBA	- dBA	0.89 LB-FT^2	0.9 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						
6307	6206	POLYREX EM	SGL SPL EXT	1.125 x 4.50 IN SEK	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL

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

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N
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T
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S
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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: 06/22/2017 06:55:34 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&15

 PHASE 1

 Model No 215TBDW7013
60

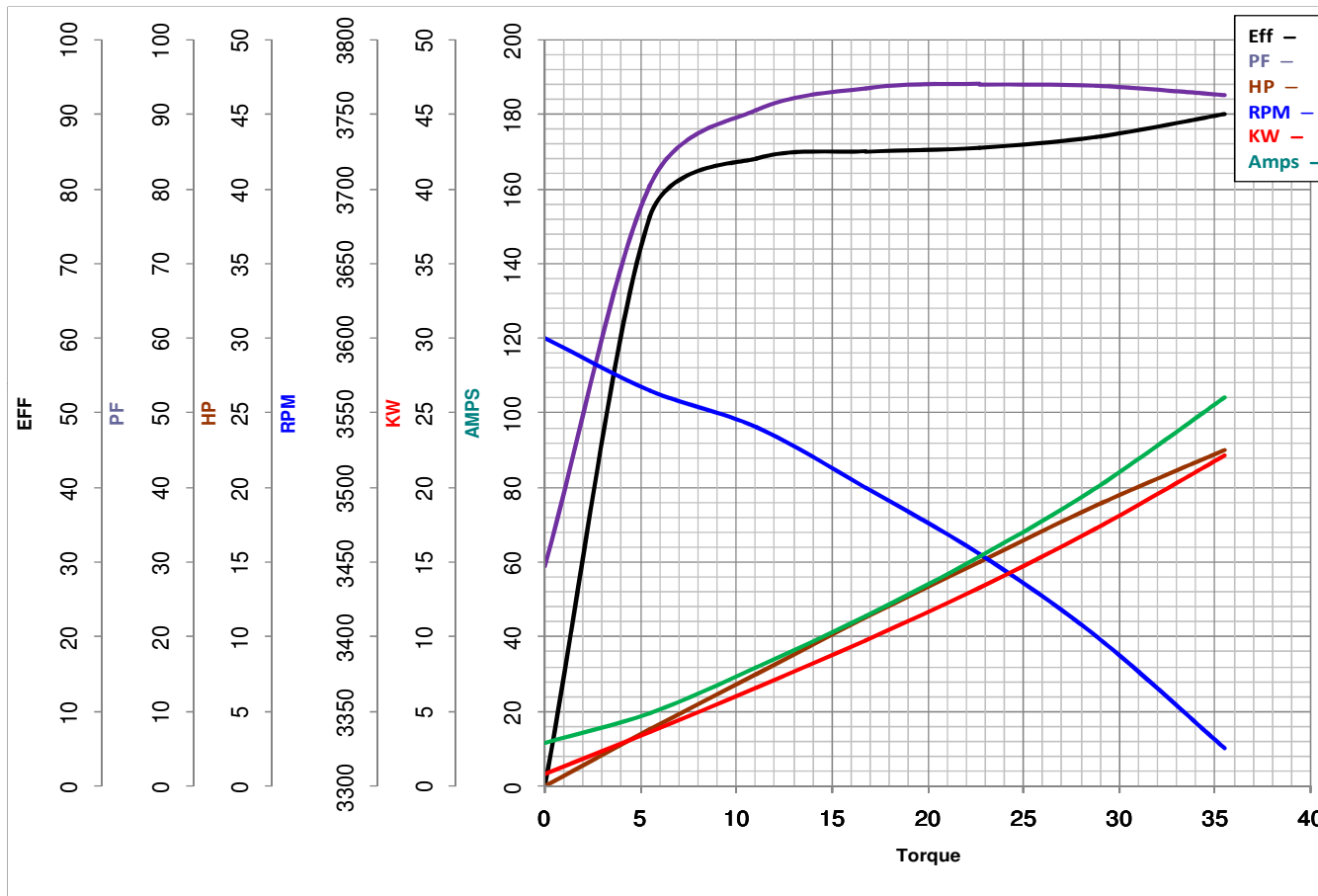
HZ

 VOLTS 230&230
15

HP

 Catalog No Z315

 HZ 60&60

 RPM 3520&3455


Torque in Lb.Ft

 FL TORQUE 22.7 Lb.Ft

 BD TORQUE 48.3 Lb.Ft

 LR TORQUE 36.2 Lb.Ft

 FL AMPS 39.5

 PU TORQUE 35.8 Lb.Ft

 LR AMPS 322

WINDING BK10270-1

 Date 2/4/2019