

PRODUCT INFORMATION PACKET

marathon[®]
Motors

Model No: 215TTDWD16349
Catalog No: E178A
10,1800,215JMV,DP,3/60/230/460
JM



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REGAL[®]



Nameplate Specifications

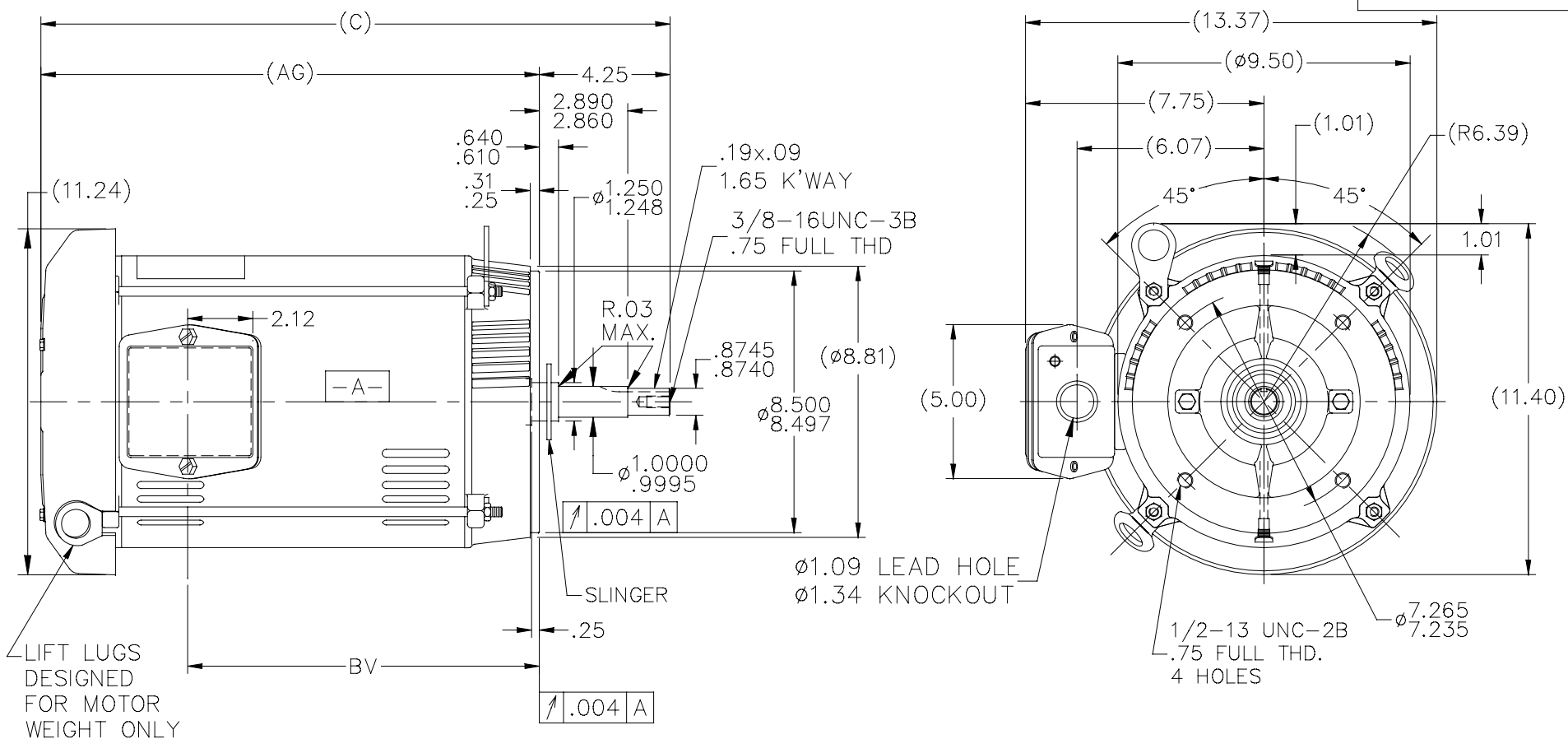
Output HP	10 Hp	Output KW	7.5 kW
Frequency	60 Hz	Voltage	230/460 V
Current	26.2/13.1 A	Speed	1765 rpm
Service Factor	1.15	Phase	3
Efficiency	91.7 %	Duty	Continuous
Insulation Class	B	Design Code	B
KVA Code	H	Frame	215JMV
Enclosure	Drip Proof	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6309
Opp Drive End Bearing Size	6206	UL	Recognized
CSA	Y	CE	Y
IP Code	12		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Mounting	Round	Motor Orientation	Shaft Down
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Rolled Steel	Shaft Type	JM
Overall Length	20.44 in	Frame Length	11.15 in
Shaft Diameter	0.875 in	Shaft Extension	4.25 in
Assembly/Box Mounting	F1/F2 Capable		
Outline Drawing	SS86596-1115	Connection Diagram	00501001ME

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SS86596



DASH	FR.	C	AG	BV
965	213JM	18.94	14.69	9.93
1115	213/15JM	20.44	16.19	11.43
1240	213/15JM	21.69	17.44	12.68

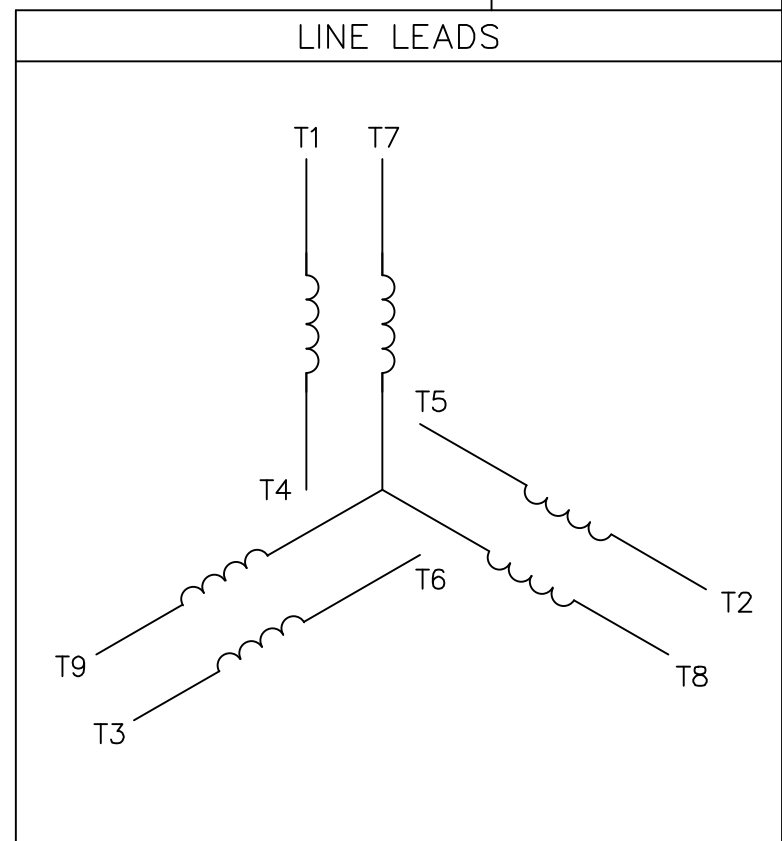
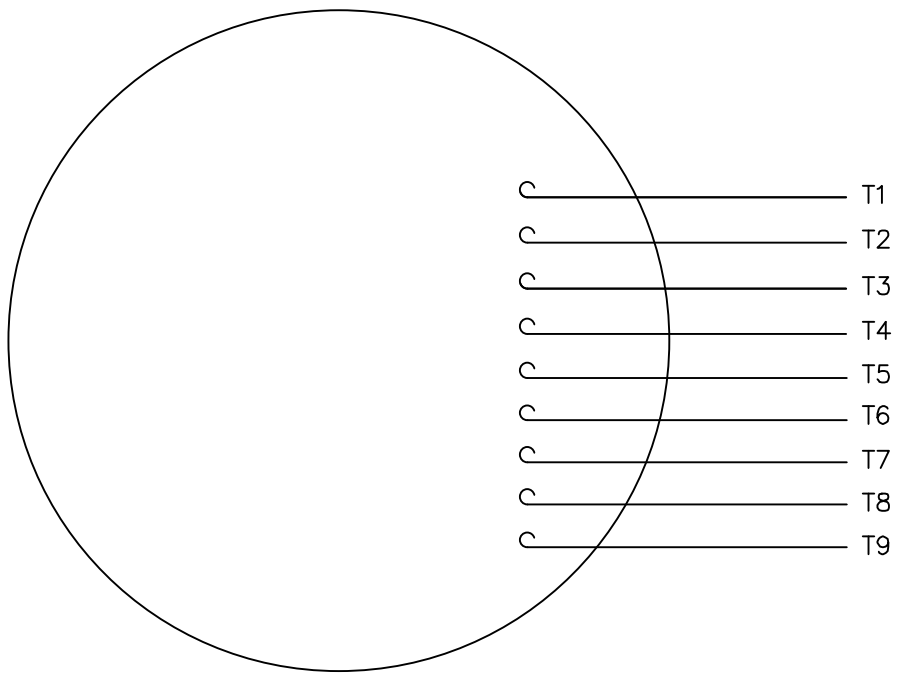
NOTES:

1. NAMEPLATE TO BE READ FROM SHAFT EXT. END OF MOTOR.
2. BOX CAN BE MOUNTED IN 90° STEPS.

NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	TOLERANCES UNLESS SPECIFIED		 Regal Beloit America, Inc.	DRAWN DA 03 26 1996
						DEC.	INCHES		
6	TITLE BLOCK LOGO CHANGE PER ECO-0078542	MDV 06/09/2015							CHK ML 04-01-1996
5	UPDATED DRAWING	TJW 04/30/2007							APPD DN 04-01-1996
4	REDRAWN IN AUTOCAD	TAT 07-06-2004	ML	.X	±.1				SCALE 1=5
3	UPDATED DRIP COVER GEOMETRY CN 29200-433	DRS 01-25-2002		.XX	±.03			TITLE OUTLINE - C' FACE	REF
2	UPDATED C' BOX GEOMETRY CN 28425	DRS 01-31-2001		.XXX	±.005			210JM FR. - DR. PR.	FMF
1	NEW DRAWING - DES/DEV	DA 04-02-1996		.XXXX	±.0005			MAT'L.	PREV
			RFP					CAD FILE ss86596	SIZE A
			DIST LB						DRAWING NO. SS86596
									PAGE OF 6
									REV. 6

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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		DRAWN RDW 04/12/02	
		DEC.	INCHES	CHK	
		.X	±.1	APPD	
		.XX	±.01	TITLE EXTERNAL WIRING DIAGRAM 3 PHASE W/O PROTECTOR	
		.XXX	±.005	SCALE 1=1	
		.XXXX	±.0005	REF FIG.2-51	
				MAT'L. DECAL - 004014	
				FINISH	
NO.	REVISION	BY & DATE	CHK	ANG	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	00501001ME
		DIST		SIZE	DRAWING NO.
				A	005010-01ME
					REV.



CERTIFICATION DATA SHEET

Model#: 215TTDWD16349 AA **WINDING#:** K2154505 NONE 2
CONN. DIAGRAM: 00501001ME **ASSEMBLY:** F1/F2 CAPABLE
OUTLINE: SS86596-1115

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
10&7 1/2	7.50&5.60	1800	1765&1465	215JMV	DP	H	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	26.2/13.1&24. 4/12.2	ACROSS THE LINE	CONTINUOU S	B4	1.15/1.15	40	3300

FULL LOAD EFF: 91.7&91	3/4 LOAD EFF: 92.1	1/2 LOAD EFF: 91.4	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 77.8&77	3/4 LOAD PF: 72	1/2 LOAD PF: 60.2	90.2	SQ CAGE IND RUN	13.2 / 6.6

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
29.7 LB-FT	161 / 80.5	62.3 LB-FT 210	83.3 LB-FT 280	25

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
60 dBA	70 dBA	1 LB-FT^2	74 LB-FT^2	20 SEC.	2	150 LBS.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	ROUND	SHAFT DOWN	FALSE	NONE	TRUE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL	POLYREX EM	JM	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL
6309	6206						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	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
NONE FT-LB NONE V NONE Hz

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DATE: 06/22/2017 07:36:51 AM
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** Subject to change without notice.

Data Sheet

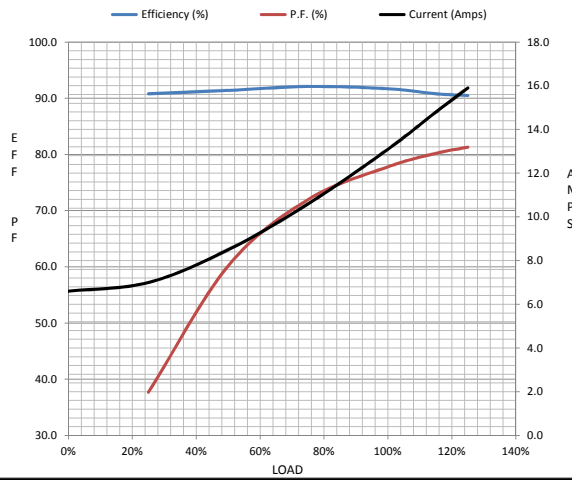
Date: 20-06-2017
 Customer: _____
 Attention: _____
 Submitted by: FAREEDA DUDEKULA



215TTDWD16349
Submittal
 Data @ 460 V

Motor Load Data									
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	6.6	7.0	8.5	10.6	13.1	14.8	15.9	80.5	
Torque (ft-lb)	0.00	7.5	14.7	22.2	29.7	34.4	37.4	62.3	
RPM	1800	1790	1784	1775	1765	1,758	1755	0	
Efficiency (%)		90.8	91.4	92.1	91.7	90.8	90.5		
P.F. (%)	4.7	37.7	60.2	72.0	77.8	80.2	81.3	42.0	

Motor Speed Data						Information Block	
	LR	Pull-Up	BD	Rated	Idle		
Speed (RPM)	0	900	1575	1765	1800	HP	10.0
Current (Amps)	80.5	79.0	49.0	13.1	6.6	Sync. RPM	1800
Torque (ft-lb)	62.3	58.0	83.3	29.7	0.00	Frame	215
						Enclosure	DP
						Construction	TDW
						Voltage	30/460#190/38V
						Frequency	60 Hz
						Design	B
						LR Code letter	H
						Service Factor	1.15
						Temp Rise @ FL	25 ° C
						Duty	CONT
						Ambient	40 ° C
						Elevation	1,000 feet
						Rotor/Shaft wk²	1.00 Lb-Ft²
						Ref Wdg	K2154505 NONE
						Sound Pressure @ 1M	60 dBA
						VFD Rating	NONE
						Outline Dwg	SS86596-1115
						Conn. Diag	005010.01



HP	10.0			
Sync. RPM	1800			
Frame	215			
Enclosure	DP			
Construction	TDW			
Voltage	30/460#190/38V			
Frequency	60 Hz			
Design	B			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	25 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk²	1.00 Lb-Ft²			
Ref Wdg	K2154505 NONE			
Sound Pressure @ 1M	60 dBA			
VFD Rating	NONE			
Outline Dwg	SS86596-1115			
Conn. Diag	005010.01			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.6240	0.4420	2.0540	2.3490	39.0020

