PRODUCT INFORMATION PACKET

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

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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	**DP**	Overload Protector	**NOT**
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	**SQ CAGE IND RUN**	Starting Method	**ACROSS THE LINE**
Poles	**4**	Rotation	**REV**
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	**0.88 in**	Shaft Extension	**4.25 in**
Assembly/Box Mounting	**F1/F2 CAPABLE**		
Outline Drawing	**SS86596-1115**	Connection Diagram	**00501001ME**

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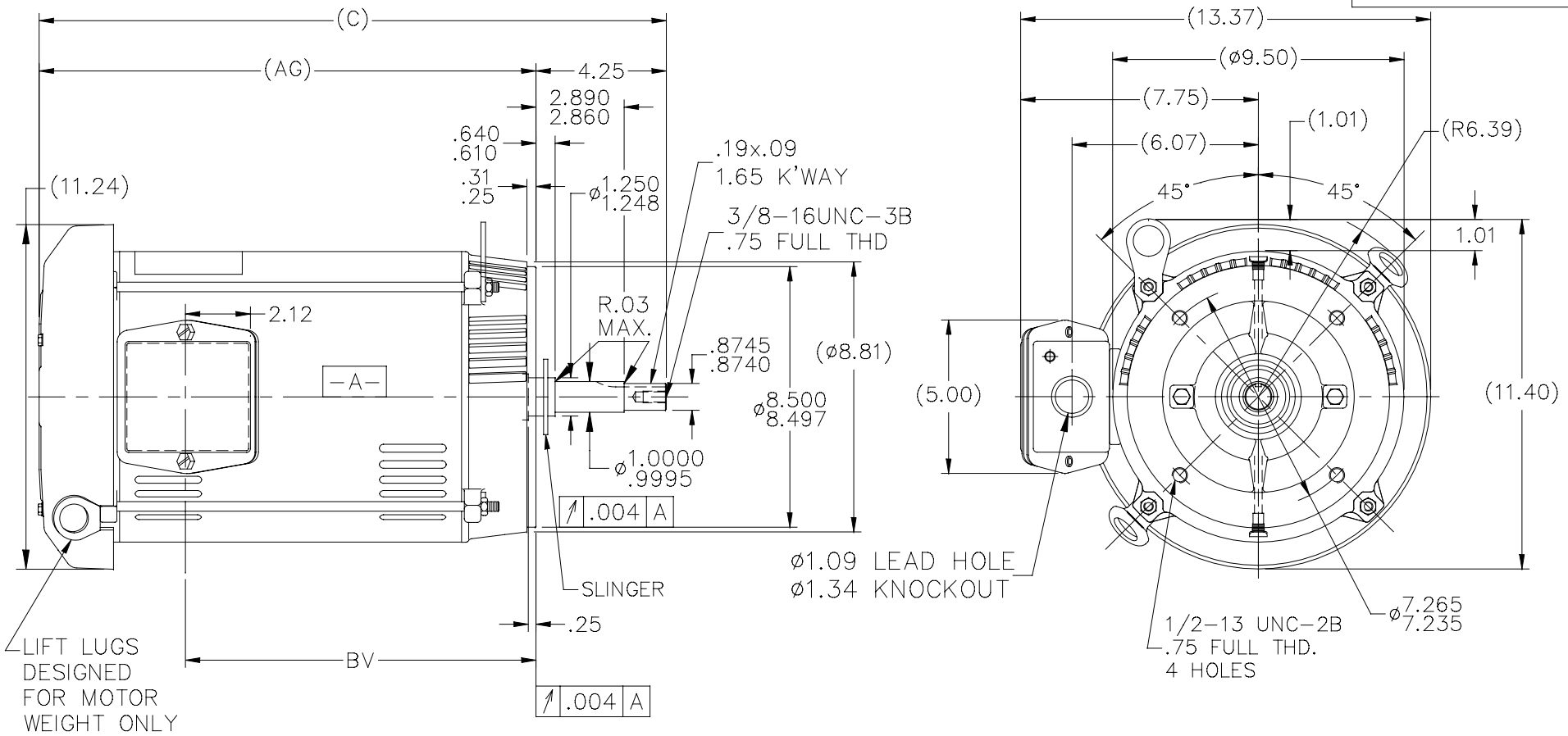
SS86596



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
6	TITLE BLOCK LOGO CHANGE PER ECO–0078542	MDV 06/09/2015
5	UPDATED DRAWING	TJW 04/30/2007
4	REDRAWN IN AUTOCAD	TAT 07–06–2004
3	UPDATED DRIP COVER GEOMETRY CN 29200–433	DRS 01–25–2002
2	UPDATED C' BOX GEOMETRY CN 28425	DRS 01–31–2001
1	NEW DRAWING – DES/DEV	DA 04–02–1996

TOLERANCES UNLESS SPECIFIED

CHK	DEC.	INCHES
ML	.X	±.1
	.XX	±.03
	.XXX	±.005
	.XXXX	±.0005
	ANG	±7'30"

REGAL™ Regal Beloit America, Inc.

TITLE OUTLINE – C' FACE
210JM FR. – DR. PR.

MAT'L.
FINISH
CAD FILE ss86596
RFP
DIST LB

DRAWN	DA 03 26 1996
CHK	ML 04–01–1996
APPD	DN 04–01–1996
SCALE	1=5
REF	
FMF	
PREV	

SIZE A | DRAWING NO. SS86596 | PAGE OF | REV. 6

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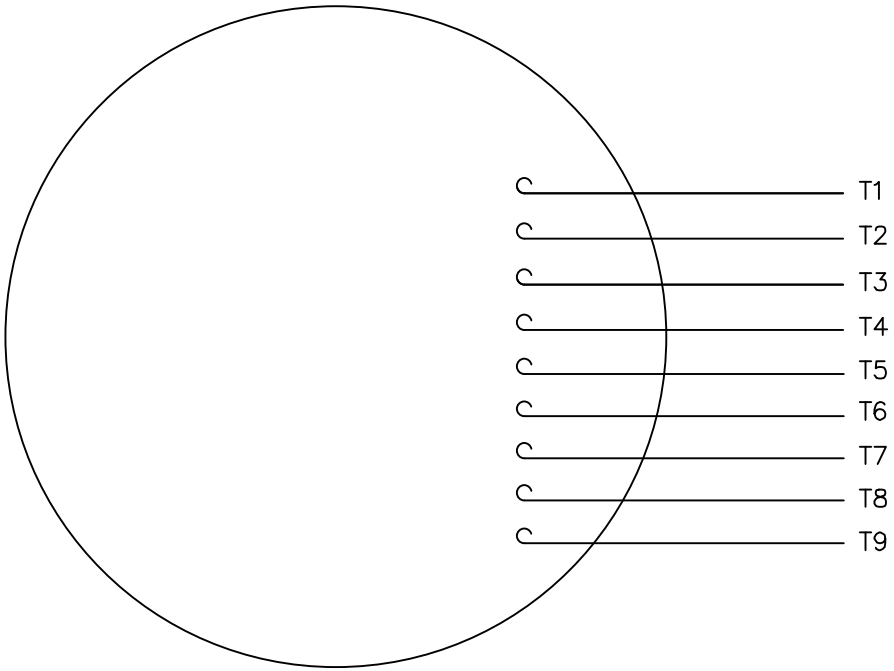
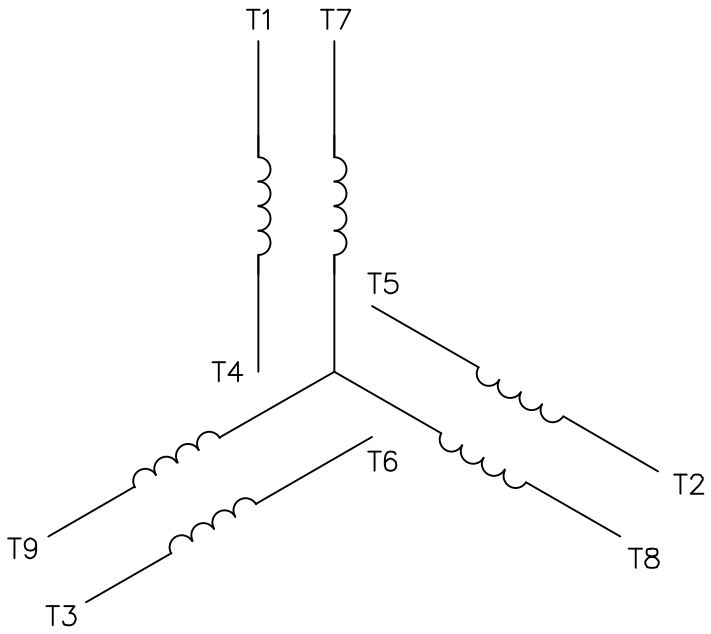
VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



LINE LEADS



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

NO.	REVISION	BY & DATE	CHK

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.01
.XXX	±.005
.XXXX	±.0005
ANG	±1/2°

MARATHON ELECTRIC

TITLE: EXTERNAL WIRING DIAGRAM
3 PHASE W/O PROTECTOR

MAT'L. DECAL – 004014

FINISH

DRAWN RDW 04/12/02
CHK
APPD
SCALE 1=1
REF FIG.2–51
FMF
PREV

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RFP 04/12/02
DIST

CAD FILE 00501001ME

SIZE	DRAWING NO.	REV.
A	005010–01ME	

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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	CONTINUOUS	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 6309	BALL 6206	POLYREX EM	JM	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL

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

* NOTES *

DATE: 06/22/2017 07:36:51 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.

Data Sheet

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

marathon electric

215TTDWD16349

Submittal

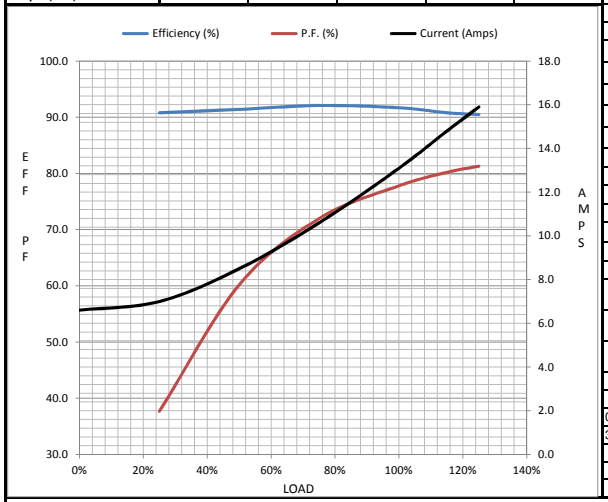
Data @ 460 V

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	

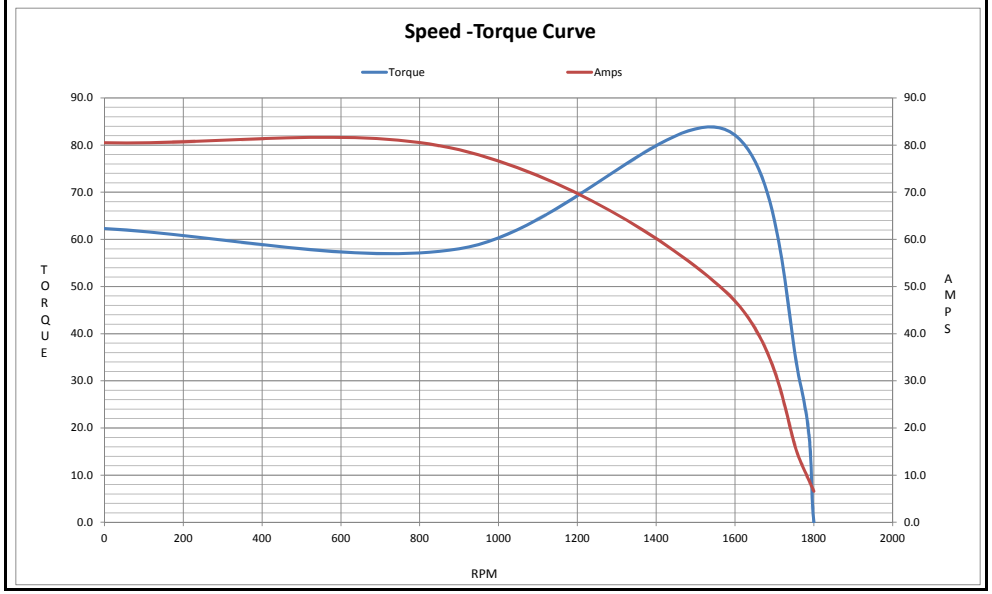
Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1575	1765	1800
Current (Amps)	80.5	79.0	49.0	13.1	6.6
Torque (ft-lb)	62.3	58.0	83.3	29.7	0.00



Information Block

HP	10.0
Sync. RPM	1800
Frame	215
Enclosure	DP
Construction	TDW
Voltage	230/460#190/380V
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