

# PRODUCT INFORMATION PACKET

**marathon**<sup>®</sup>  
Motors

Model No: 213TTDWD16307  
Catalog No: E173A  
10,3600,DP,213JMV,3/60/50/230/460  
JM



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**REGAL**<sup>®</sup>

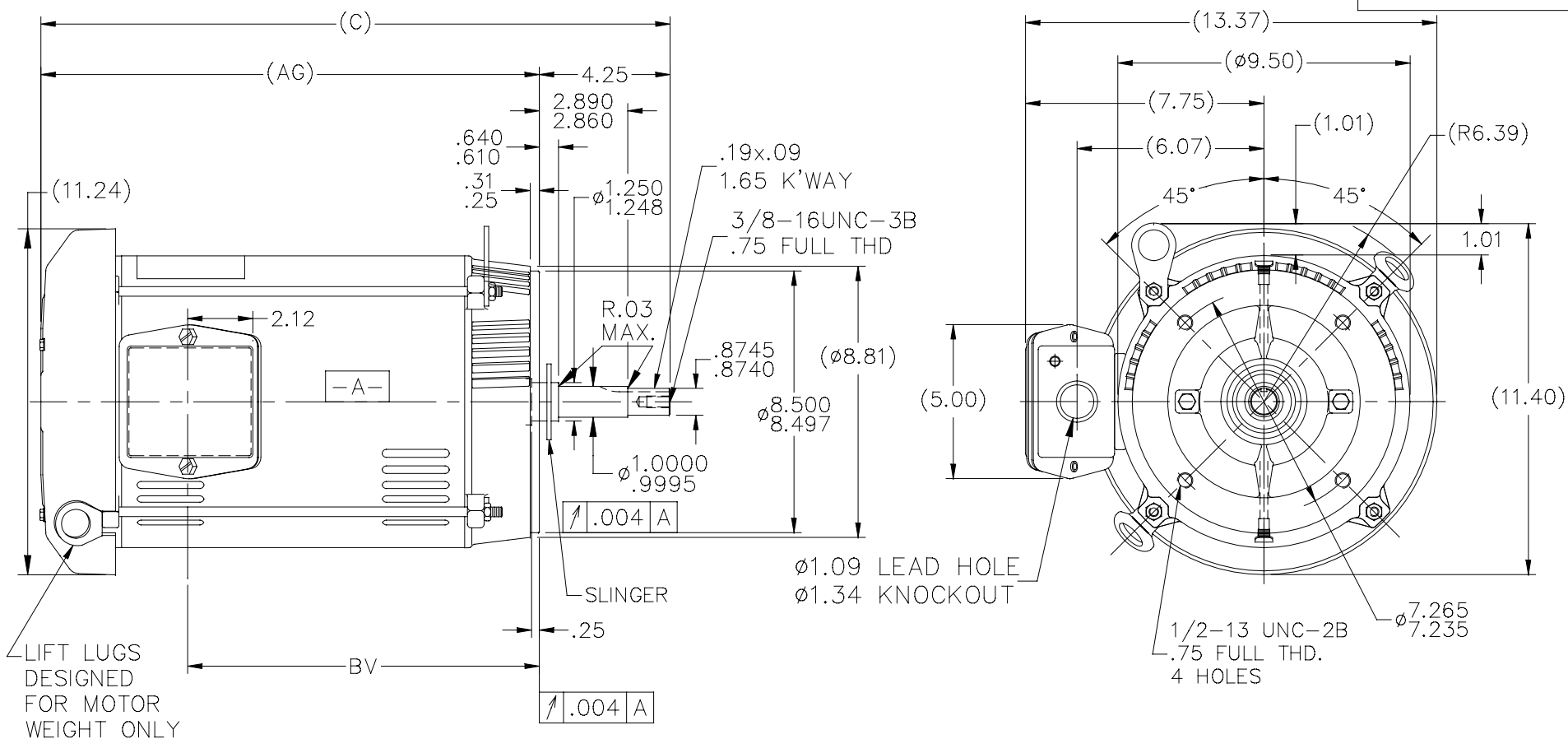
### Nameplate Specifications

Output HP	<b>10 Hp</b>	Output KW	<b>7.5 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>230/460 V</b>
Current	<b>24.2/12.1 A</b>	Speed	<b>3530 rpm</b>
Service Factor	<b>1.15</b>	Phase	<b>3</b>
Efficiency	<b>90.2 %</b>	Duty	<b>Continuous</b>
Insulation Class	<b>B</b>	Design Code	<b>B</b>
KVA Code	<b>G</b>	Frame	<b>213JMV</b>
Enclosure	<b>Drip Proof</b>	Overload Protector	<b>No</b>
Ambient Temperature	<b>40 °C</b>	Drive End Bearing Size	<b>6309</b>
Opp Drive End Bearing Size	<b>6206</b>	UL	<b>Recognized</b>
CSA	<b>Y</b>	CE	<b>Y</b>
IP Code	<b>12</b>		

### Technical Specifications

Electrical Type	<b>Squirrel Cage Induction Run</b>	Starting Method	<b>Across The Line</b>
Poles	<b>2</b>	Rotation	<b>Reversible</b>
Mounting	<b>Round</b>	Motor Orientation	<b>SHAFT DOWN</b>
Drive End Bearing	<b>BALL</b>	Opp Drive End Bearing	<b>BALL</b>
Frame Material	<b>Rolled Steel</b>	Shaft Type	<b>JM</b>
Overall Length	<b>18.94 in</b>	Frame Length	<b>9.65 in</b>
Shaft Diameter	<b>0.875 in</b>	Shaft Extension	<b>4.25 in</b>
Assembly/Box Mounting	<b>F1/F2 CAPABLE</b>		
Outline Drawing	<b>SS86596-965</b>	Connection Diagram	<b>EE7308</b>


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		 <b>Regal Beloit America, Inc.</b>	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	
			DIST LB						
								SIZE A	DRAWING NO. SS86596
									PAGE OF 6
									REV. 6

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EE7308

THREE PHASE  
DUAL VOLTAGE MOTOR



VIEW OF TERMINAL END

REF.  
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G  
T6BZ, T2B, T6BL, T4AV, T6B, T4B

OPTIONAL CORD  
CONNECTION

L1 — WHITE  
L2 — RED  
L3 — BLACK

NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED	FINISH	PREV
5	CHG TO REGAL LOGO	SL 09/10/2015	AB	DEC.	INCHES		
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN	.X	±.1		
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS	.XX	±.02		
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XXX	±.005		
1	REDRAWN	RM 11/20/1990		.XXXX	±.0005		
					±7'30"		
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						DIST WP	
						CAD FILE ee7308	
						SIZE A	
						DRAWING NO. EE7308	
						PAGE OF 5	
						REV. 5	

**REGAL**™ Regal Beloit America, Inc. DRAWN RM 11/20/1990  
CHK ML 11/21/1990  
APPD SAS 04/24/2003

TITLE CONNECTION DIAGRAM  
3Ø - DUAL VOLTAGE MOTOR  
SCALE 1=1  
REF  
FMF



P.O. BOX 8003  
WAUSAU, WI 54401-8003  
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER: \_\_\_\_\_ CUSTOMER P.O. #: \_\_\_\_\_  
 ORDER #: \_\_\_\_\_ REFERENCE MODEL #: 213TTDWD16307  
 CONN. DIAGRAM: EE7308 CAT #: E173A  
 OUTLINE: SS96596-965 CUSTOMER PART #: \_\_\_\_\_  
 WINDING: K2132123 NONE 3 MOUNTING: F1/F2 CAPABLE  
 SPEED: \_\_\_\_\_

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN	
10	7.5	3600	3530	213LMV	DP	TDW	G	B	
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	230/460#190/380	24.2/121.8/22.6/11.3	ACROSS-THE LINE	CONT	B	1.15	40	3300
	F.L. EFF	90.2	3/4 LD EFF	91.0	1/2 LD EFF	91.0	GTD EFF	ELECT. TYPE	
	F.L. PF	85.4	3/4 LD PF	80.3	1/2 LD PF	68.9	88.5	SQ CAGE IND RUN	
F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)					
14.9 LB-FT	79.0	25.0 LB-FT	168%	43.2 LB-FT	290%	47			
@ 3 FT.	POWER	ROTOR WK <sup>2</sup>	MAX. LOAD WK <sup>2</sup>	SAFE STALL TIME	START/SHOUR	MOTOR WGT			
75 DBA	84 DBA	0.45 LB-FT <sup>2</sup>	5 LB-FT <sup>2</sup>	15 SEC.	2	105 LB.			

\*\*\* SUPPLEMENTAL INFORMATION \*\*\*

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	ROUND	SHAFT DOWN	NO	NONE	YES	NONE	BLUE (ENAMEL)
BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL		
DE BALL 6309	BALL POLYREX EM 6206	JM	NONE	NONE	EN8D STEEL BAR (C-242)	ROLLED STEEL		
THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS		
NONE	NOT	NONE	NONE	NONE	FALSE	NA		
R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT		
0.891	0.425	2.184	1.239	48.32	0.150	ODE		

\* INVERTER TORQUE: NONE  
 INV. HP SPEED RANGE: NONE  
 ENCODER: NONE  
 NONE  
 NONE  
 BRAKE: NONE  
 NONE  
 NONE  
 FT-LB: NA  
 VOLTAGE: NONE  
 HZ: \_\_\_\_\_

PREPARED BY: FAREEDA DUDEKULA  
 DATE: 9/17/2018  
 UL: V-INS, CONST UL REC

