

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 215TTDWD16073
Catalog No: U431B-P
10,1800,DP,215T,3/60/208-230/460
Open Drip Proof (ODP)



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REGAL

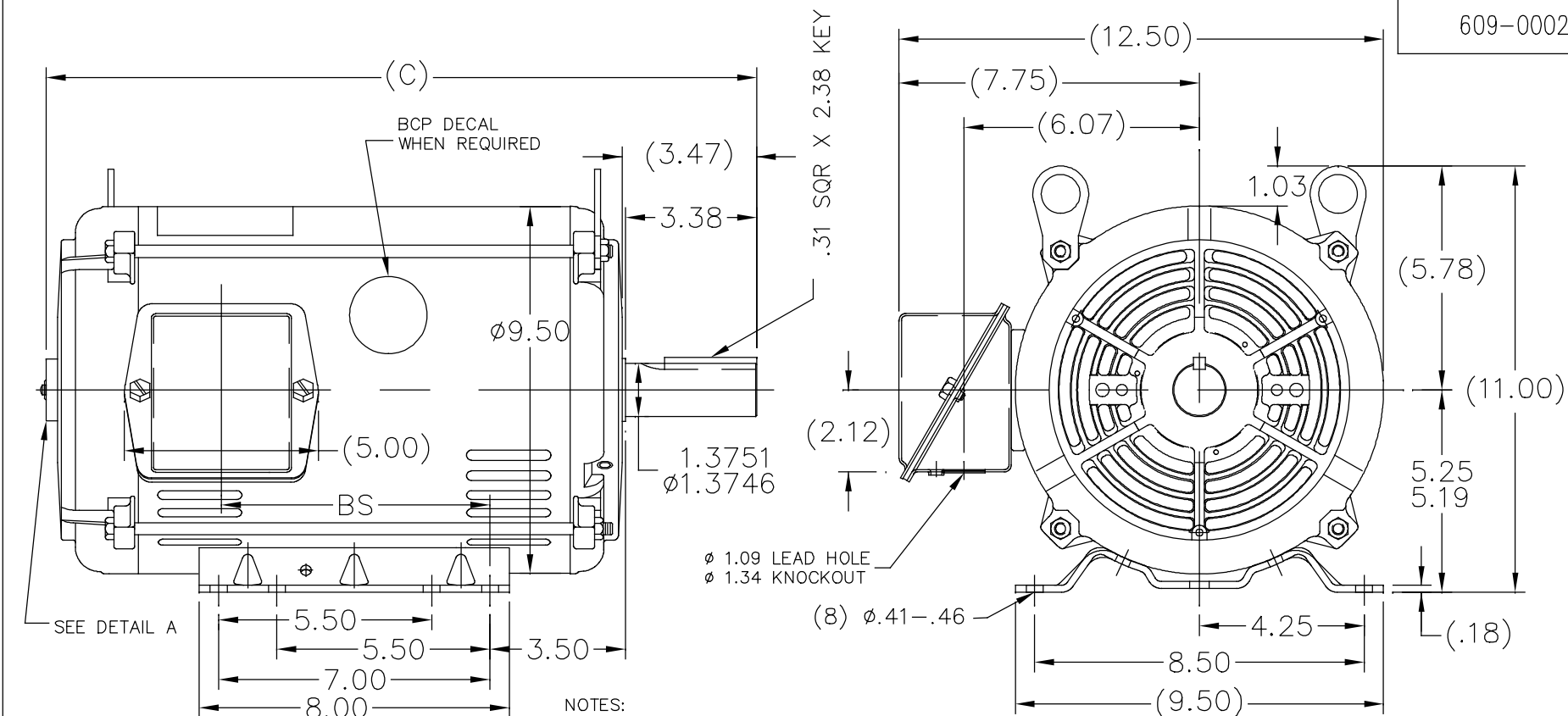
Nameplate Specifications

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	F	Design Code	B
KVA Code	H	Frame	215T
Enclosure	Drip Proof	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6307
Opp Drive End Bearing Size	6206	UL	Recognized
CSA	Y	CE	Y
IP Code	12		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	HORIZONTAL
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	Rolled Steel	Shaft Type	T
Overall Length	18.25 in	Frame Length	11.15 in
Shaft Diameter	1.375 in	Shaft Extension	3.38 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	609-0002-1115	Connection Diagram	005010.01

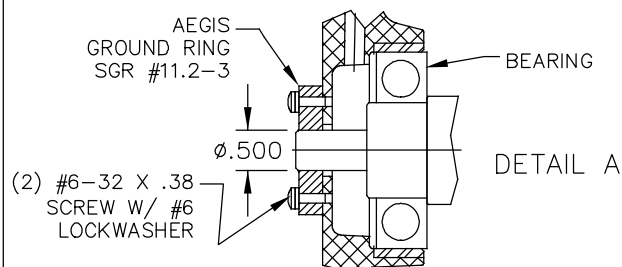
609-0002



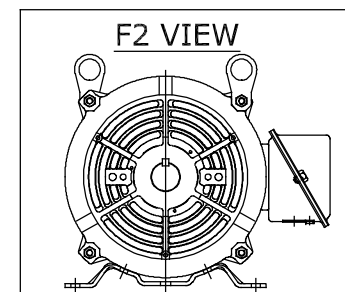
NOTES:

1. NAMEPLATE TO BE READ FROM C'BOX SIDE OF MOTOR.
2. BOX CAN BE MOUNTED IN 90° STEPS.
3. BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°. (EXCEPT AS NOTED.)

DASH	FR.	C	BS	MOUNTING
965	213T	16.75	5.43	
1115	213/15T	18.25	6.93	
1240	213/15T	19.50	8.18	F1 ONLY
1545	215T	22.88	11.23	F1 ONLY



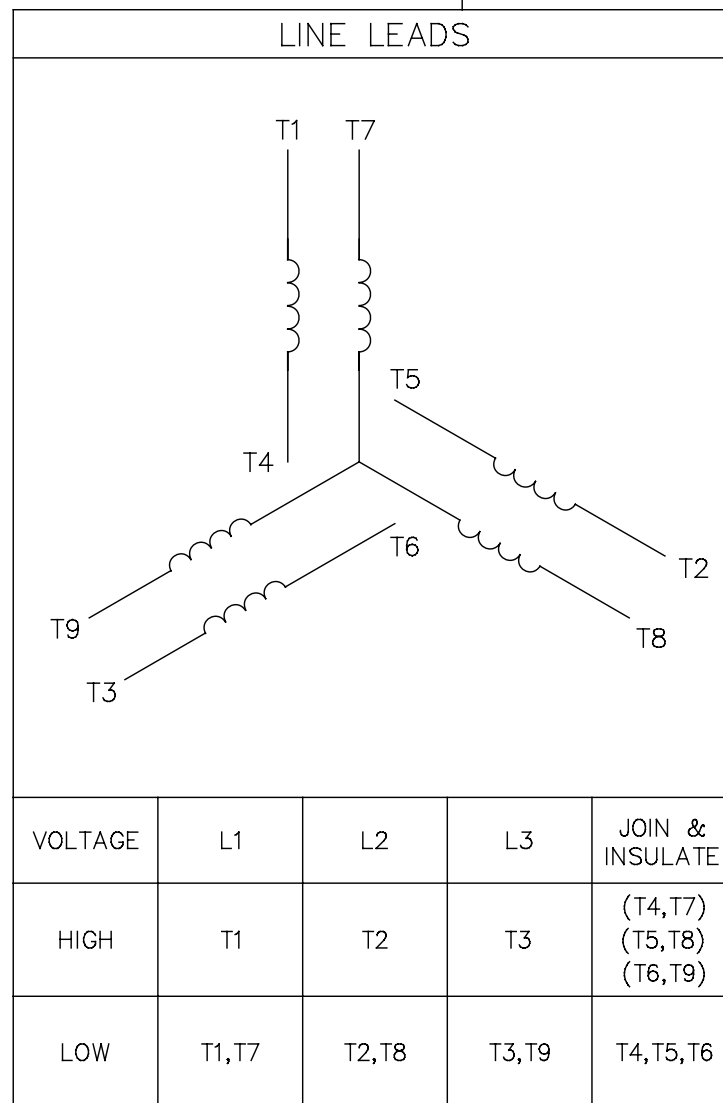
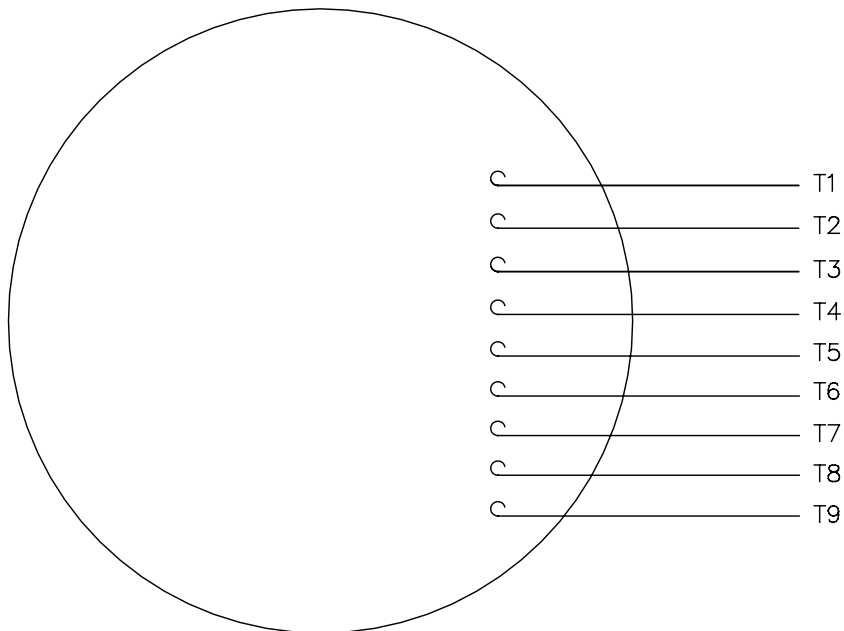
GROUND RING SCREWS ARE MOUNTED IN HORIZONTAL POSITION.



				TOLERANCES UNLESS SPECIFIED		 Regal Beloit America, Inc.	DRAWN LST 6/27/13		
				DEC.	INCHES		CHK		
				.X	±.1		APPD		
C	F2 VIEW ADDED	NK 07/03/18	GNK	.XX	±.03	TITLE OUTLINE 210T FR. — BB — TS — DR.PR.	SCALE	1=4	
B	TITLE BLOCK LOGO CHANGE PER ECO-0078542	MDV 06-09-15	MDV	.XXX	±.005		REF		
A	LEAD HOLE & KNOCKOUT ADDED PER ECO-0059319	UD 09-03-14	ST	.XXXX	±.0005		FMF		
NO.	REVISION	BY & DATE	CHK	ANG	±7°30"	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 SS86668	SIZE A	DRAWING NO. PAGE OF 609-0002	REV. C	
			DIST LB						

005010-01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



				TOLERANCES UNLESS SPECIFIED		 Regal Beloit America, Inc.			DRAWN	RDW 04/12/02	
				DEC.	INCHES				CHK		
				.X	±.1				APPD		
				.XX	±.01				SCALE	1=1	
				.XXX	±.005	TITLE EXTERNAL WIRING DIAGRAM 3 PHASE W/O PROTECTOR			REF	FIG.2-51	
A	UPDATED TO REGAL LOGO	SAJ 06/26/15	AJY	.XXXX	±.0005				MAT'L.	DECAL - 004014	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	04/12/02	CAD FILE	00501001	SIZE A	DRAWING NO. 005010-01		REV A
				DIST BRF-NLV							



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 #:	215TTDWD16073
CONN. DIAGRAM:	005010.01	CAT #:	U431B-P
OUTLINE:	609-0002-1115	CUSTOMER PART #:	
WINDING:	K2154505	MOUNTING:	F1/F2 CAPABLE
SPEED:			

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN					
10	7.5	1800	1765	215T	DP	TDW	H	B					
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.				
3	60/50	230/460#190/380	26.2/13.1824.4/12.2	LINE OR INVERTER	CONT	F	1.15	40	3300				
F.L. EFF		91.7	3/4 LD EFF		92.1	1/2 LD EFF		91.4	GTD EFF	ELECT. TYPE			
F.L. PF		77.8	3/4 LD PF		72.0	1/2 LD PF		60.2	90.2	SQ CAGE INV RATED			
F.L. TORQUE		LR AMPS @ 460 V			L.R. TORQUE		B.D. TORQUE		F.L. RISE (°C)				
29.7	LB-FT	80.5			62.3	LB-FT	210%	83.3	LB-FT	280%	25		
@ 3 FT.		POWER		ROTOR WK²		MAX. LOAD WK²		SAFE STALL TIME		STARTS/HOUR		MOTOR WGT	
60	dba	69	dba	1.00	LB-FT²	74	LB-FT²	20	SEC.	2	150	LB.	

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE		ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD		STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	BLUE (ENAMEL)
BEARINGS			GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL
DE	ODE								
BALL	BALL	POLYREX EM	T	NONE	NONE	NONE	AISI 1045 (C-240)		ROLLED STEEL
6307	6206								
THERMOSTATS		PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS		
NONE		NOT	NONE	NONE	NONE	NONE	FALSE	NA	
R1 (ohms/ph)		R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)		FLOAT	
0.624		0.442	2.054	2.349	39.002	0.150		ODE	
INVERTER TORQUE: VARIABLE 10:1									
INV. HP SPEED RANGE: NONE									
ENCODER: NONE									
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PREPARED BY: FAREEDA DUDEKULA	
DATE: 9/11/2018	
FORM: 3531 REV 4 2/27/06	UL: V/INS, CONST UL REC

Data Sheet

Date: 9/11/2018

Customer:

Attention:

Submitted by:

FAREEDA DUDEKULA

215T1DW016073



Submittal

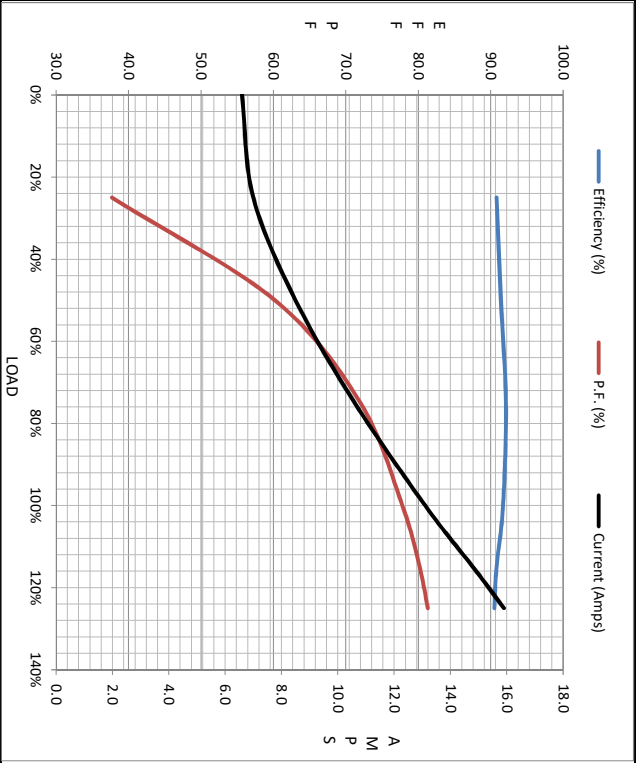
Data @ 460 V

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	Information Block	
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		
						HP	10.0
						Sync. RPM	1800



Frame	2151821TFc6080			
Enclosure	DP			
Construction	TDW			
Voltage	230/460#190/380 V			
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	VARIABLE 10:1			
Outline Dwg	609-0002-1115			
Conn. Diag	005010.01			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.6240	0.4420	2.0540	2.3490	39.0020

Speed - Torque Curve

