

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 213TTFND6594
Catalog No: E471A
3,1200,TEFC,213T,3/60/230/460
Severe Duty



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REGAL



Nameplate Specifications

Output HP	3 Hp	Output KW	2.2 kW
Frequency	60 Hz	Voltage	230/460 V
Current	8.8/4.4 A	Speed	1175 rpm
Service Factor	1.15	Phase	3
Efficiency	89.5 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	K	Frame	213T
Enclosure	Totally Enclosed Fan Cooled	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6307
Opp Drive End Bearing Size	6208	UL	Recognized
CSA	Y	CE	Y
IP Code	54		

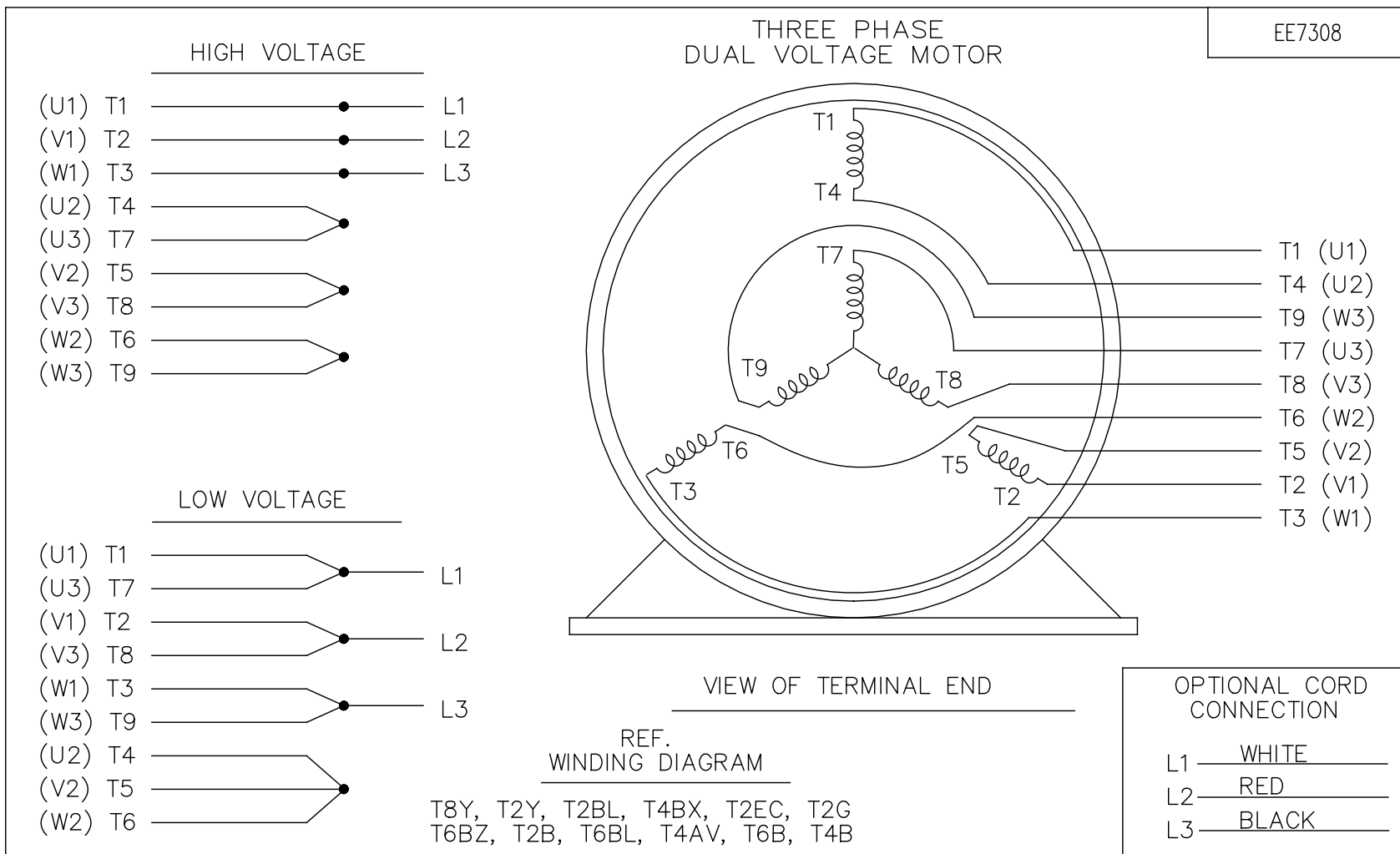
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	HORIZONTAL
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	Cast Iron	Shaft Type	T
Overall Length	19.63 in	Frame Length	9.12 in
Shaft Diameter	1.375 in	Shaft Extension	3.38 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	037657-912	Connection Diagram	EE7308



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SHEET
1 OF 1



				TOLERANCES UNLESS SPECIFIED		 Regal Beloit America, Inc.	DRAWN RM 11/20/1990	
5	CHG TO REGAL LOGO	SL 09/10/2015	AB	DEC.	INCHES		CHK ML 11/21/1990	
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN	.X	±.1	TITLE CONNECTION DIAGRAM 3Ø - DUAL VOLTAGE MOTOR MAT'L. FINISH	APPD SAS 04/24/2003	
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS	.XX	±.02		SCALE 1=1	
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XXX	±.005		REF	
1	REDRAWN	RM 11/20/1990		.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 ee7308		SIZE A	DRAWING NO. EE7308	PAGE OF 5
			DIST WP					



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WAUSAU, WI 54401-8003
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DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:		CUSTOMER P.O. #:	
ORDER #:	EE7308	REFERENCE MODEL #:	213TTHND6594
CONN. DIAGRAM:	037657-912	CAT #:	E471A
OUTLINE:	K213699	CUSTOMER PART #:	
WINDING:	NONE	MOUNTING:	F1/F2 CAPABLE
SPEED:	2		

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
3	2.2	1200	1175	213T	TEFC	TEN	K	B
PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB
3	60	230/460	8.8/4.4	LINE OR INVERTER	CONT	F	1.15	40
F.L. EFF		89.5	3/4 LD EFF	88.7	1/2 LD EFF	86.7	GTD EFF	ELECT. TYPE
F.L. PF		71.5	3/4 LD PF	64.1	1/2 LD PF	52.4	87.5	SO CAGE INV RATED
F.L. TORQUE		LR AMPS @ 460 V		L.R. TORQUE		B.D. TORQUE		F.L. RISE (°C)
13.4	LB-FT	32.0		31.0	LB-FT	231%	47.0	LB-FT 351%
@ 3 FT.		POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT	
55	DBA	64	DBA	0.80	LB-FT²	90	LB-FT²	25
				SEC.				2
								160
								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	UM SEVERE	DIVISION 2 T2B	NO	NONE	BLUE (EPOXY)				
BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT	MATERIAL	FRAME MATERIAL				
DE	ODE	POLYREX EM	T	NONE	NONE	1144	STRESSPROOF (C-223)	CAST IRON				
6307	6208											
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)								
1.721	1.503	6.713	7.138	98.208								
				VIBRATION (in/sec)	FLOAT							
				0.080								
				ODE								
				INVERTER TORQUE: CONSTANT 20:1								
				INV. HP SPEED RANGE: 1.5 X BASE SPEED								
				ENCODER: NONE								
				BRAKE: NONE								
				FT-LB: NONE NA NONE								
				VOLTAGE: NONE NONE								
				UL: V/INS, CONST UL REC								
				HZ:								

Data Sheet

2131TFND6594

Date: 9/12/2018

Customer:

Attention:

Submitted by:

FAREEDA DUDEKULA



Submittal

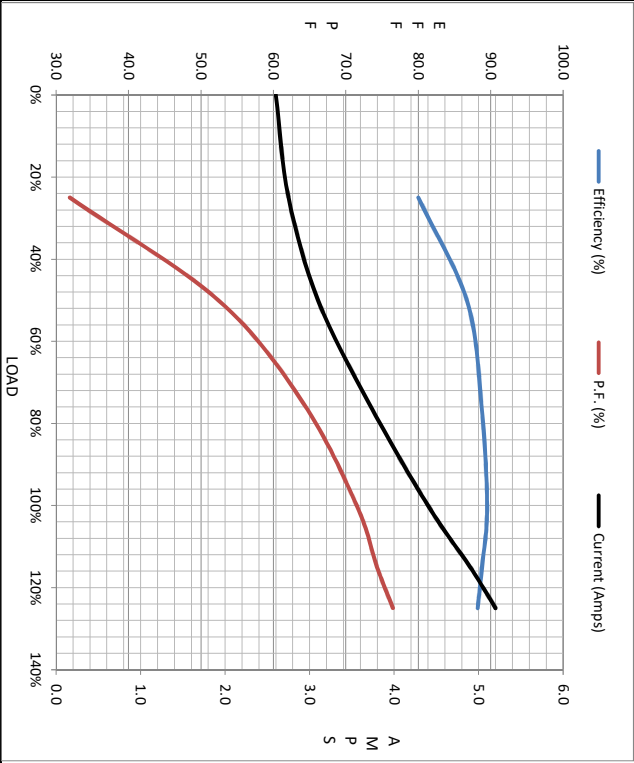
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	2.60	2.75	3.1	3.7	4.4	4.9	5.2	32.0
Torque (ft-lb)	0.00	3.3	6.7	10.0	13.4	15.5	16.9	31.0
RPM	1200	1194	1188	1180	1175	1,170	1166	0
Efficiency (%)		80.0	86.7	88.7	89.5	88.8	88.2	
P.F. (%)	7.2	31.9	52.4	64.1	71.5	74.3	76.5	40.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block	
Speed (RPM)	0	600	1025	1175	1200		
Current (Amps)	32.0	28.0	20.0	4.4	2.60		
Torque (ft-lb)	31.0	30.0	47.0	13.4	0.00		
						HP	3.0
						Sync. RPM	1200



Frame	2131821TFC6080			
Enclosure	TEFC			
Construction	TFN			
Voltage	230/460		V	
Frequency	60		Hz	
Design	B			
LR Code letter	K			
Service Factor	1.15			
Temp Rise @ FL	35		° C	
Duty	CONT			
Ambient	40		° C	
Elevation	1,000		feet	
Rotor/Shaft wk²	0.80		Lb-Ft²	
Ref Wdg	K213699		NONE	
Sound Pressure @ 1M	55		dBA	
VFD Rating	CONSTANT 20:1			
Outline Dwg	037657-912			
Conn. Diag	EE7308			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.7210	1.5030	6.7130	7.1380	98.2080

Speed - Torque Curve

