

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 213TTFND6530
Catalog No: E671A
7.50 HP Severe Duty Motor, 3 phase, 1800 RPM, 575 V, 213T Frame, TEFC
Severe Duty Motors



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RegalRexnord

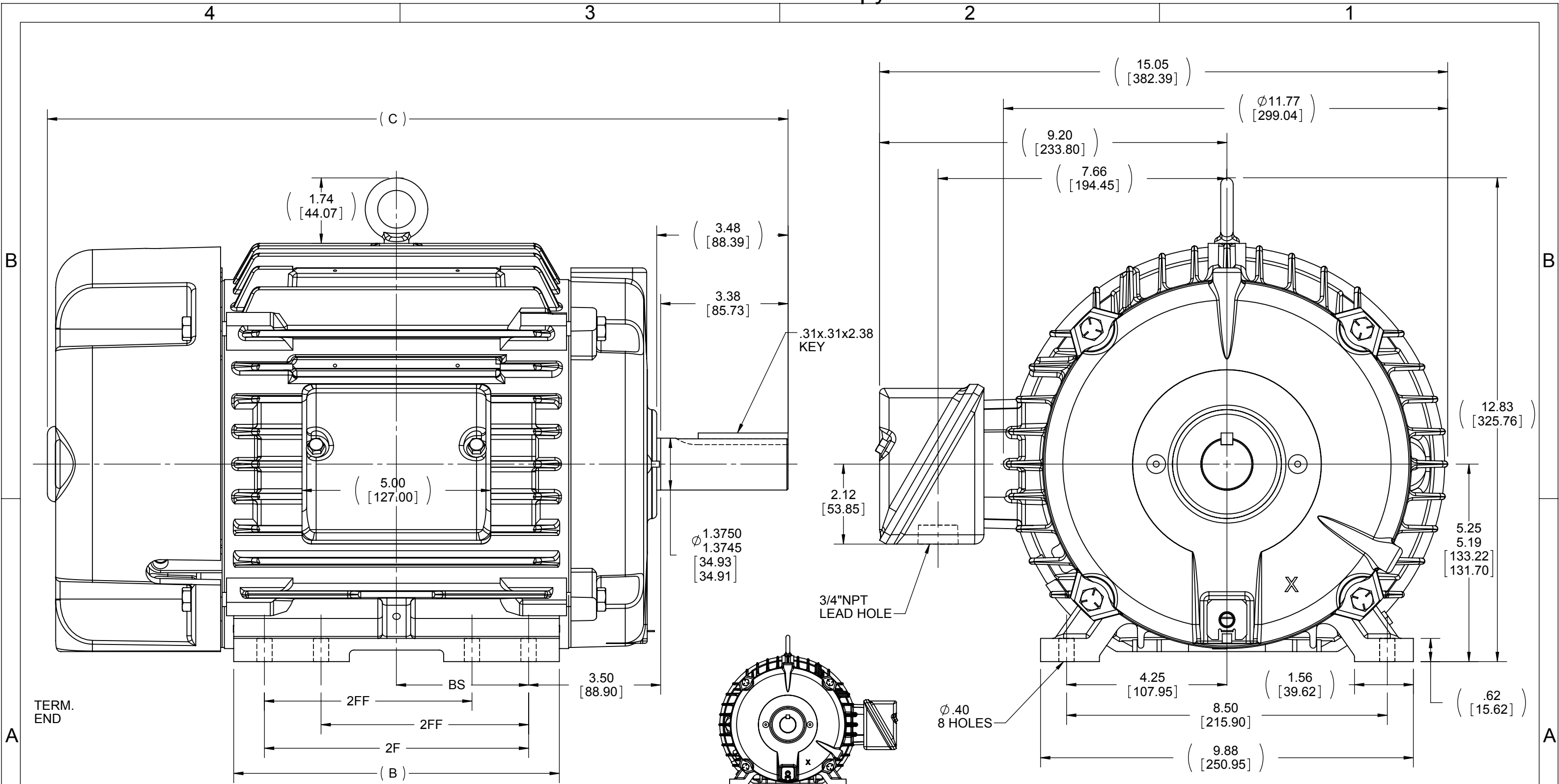
Nameplate Specifications

Output HP	7.50 Hp	Output KW	5.6 kW
Frequency	60 Hz	Voltage	575 V
Current	7.7 A	Speed	1765 rpm
Service Factor	1.15	Phase	3
Efficiency	91.7 %	Power Factor	79.2
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Frame	213T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	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
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	1.18 Ohms	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 Drawing	EE7300

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


- NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
 2. CONDUIT BOX CAN BE MOUNTED IN OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°.
 3. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.

1212	213/215	22.63	11.76	10	7	5
912	213/215	19.63	8.63	7	5.5	3.5
DASH	FRAME	C	B	2F	2FF	BS

DRAWING REVISION E	REVISION BY UD	DATE 02/13/14
ECO ECO-0044824	APPROVED BY SR	DATE 02/13/14
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TOLERANCES UNLESS OTHERWISE SPECIFIED:		
DEC.	INCH	mm
.X	± 0.1	[± 2.5]
.XX	± 0.01	[± 0.25]
.XXX	± 0.005	[± 0.127]
.XXXX	± 0.0005	[± 0.0127]
REMOVE BURRS & BREAK SHARP		
EDGES: .003/.015 [0.076/.381]		
CORNER FILLETS: .02 [51]		
MACHINED SURFACES: 125 INCH 3.2 mm		
mm SHOWN IN [BRACKETS]		

DRAWN BY AK	 Regal Beloit America, Inc.	
DATE 09/09/2009		
APPROVED BY	DESCRIPTION OUTLINE	
DATE		
PROCESS/FINISH	MATERIAL	
THIRD ANGLE PROJECTION 	SIZE B	DRAWING NUMBER 037657
		SHEET 1 OF 1

THREE PHASE - SINGLE VOLTAGE MOTOR - CONDUIT BOX @ 'A'

TO REVERSE ROTATION:
INTERCHANGE ANY TWO
LINE LEAD CONNECTIONS.

TERMINAL BLOCK WHEN SPECIFIED



IF MOTOR HAS 6 LEADS



A-9806 DECAL

OPTIONAL CORD CONNECTION



VIEW OF TERMINAL END

DRAWING REVISION AB	REVISION BY JJB	DATE 06-27-2017
ECO ECO-0125361	APPROVED BY TB	DATE 06-27-2017
ECO DESCRIPTION UPDATED TO CURRENT STANDARDS		
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DRAWN BY DA
DATE 03-26-1993
APPROVED BY TB
DATE 03-26-1993
REFERENCE
THIRD ANGLE PROJECTION



Regal Beloit America, Inc.

DESCRIPTION
CONNECTION DIAGRAM
EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR

MATERIAL PROCESS/FINISH

SIZE A	DRAWING NUMBER EE7300	SHEET 1 OF 1
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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 #: 213TTFND6530
CONN. DIAGRAM: EE7300 CAT #: E671A
OUTLINE: 037657-912 CUSTOMER PART #: _____
WINDING: K2134279 NONE 3 MOUNTING: F1/F2 CAPABLE
SPEED: _____

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
7.5	5.6	1800	1765	213T	TEFC	TFN	H	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	575	7.7	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	91.7	3/4 LD EFF	92.2	1/2 LD EFF	91.6	GTD EFF	91.0	ELECT. TYPE	SQ CAGE INV RATED
F.L. PF	79.2	3/4 LD PF	72.9	1/2 LD PF	61.1				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
22.3 LB-FT	54.0	52.9 LB-FT 237%	75.0 LB-FT 336%	50

@ 3 FT.	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
62 dBA	71 dBA	0.85 LB-FT²	45 LB-FT²	25 SEC.	2	140 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 BALL BALL 6307 6208	POLYREX EM	T	NONE	NONE	1144 STRESSPROOF (C-223)	CAST IRON

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
1.188	1.731	3.841	4.958	78.772	0.080	ODE

* N O T E *		INVERTER TORQUE: CONSTANT 20:1 INV. HP SPEED RANGE: 1.5 X BASE SPEED
	ENCODER: NONE NONE NONE	NONE PPR

PREPARED BY: FAREEDA DUDEKULA DATE: 9/12/2018	BRAKE: NONE NONE NONE	NONE
	FT-LB: NA VOLTAGE: NONE	HZ:
FORM: 3531 REV_4 2/27/06	UL: V-INS, CONST UL REC	

Data Sheet

Date: 12/3/2018

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



213TTFND6530

Submittal

Data @ 575 V

Motor Load Data

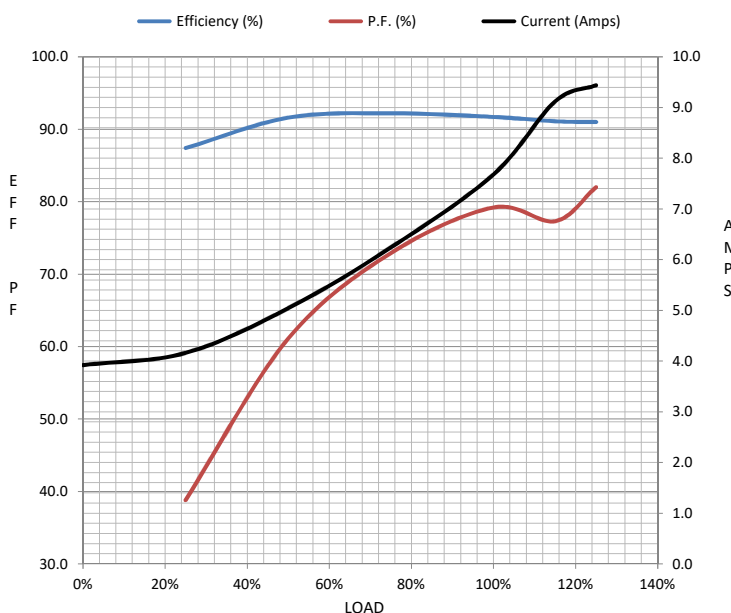
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	3.9	4.2	5.0	6.2	7.7	9.1	9.4	54.0	
Torque (ft-lb)	0.00	5.5	11.0	16.6	22.3	25.5	28.0	52.9	
RPM	1800	1792	1784	1775	1765	1,765	1756	0	
Efficiency (%)		87.4	91.6	92.2	91.7	91.1	91.0		
P.F. (%)	4.7	38.8	61.1	72.9	79.2	77.3	82.0	42.6	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1600	1765	1800
Current (Amps)	54.0	45.6	32.8	7.7	3.9
Torque (ft-lb)	52.9	49.0	75.0	22.3	0.00

Information Block

HP	7.5			
Sync. RPM	1800			
Frame	213			
Enclosure	TEFC			
Construction	TFS			
Voltage	575 V			
Frequency	60 Hz			
Design	A			
LR Code letter	H			
Service Factor	1.15			
Temp Rise @ FL	50 °C			
Duty	CONT			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk²	0.85 Lb-Ft²			
Ref Wdg	K2134279 NONE			
Sound Pressure @ 1M	62 dBA			
VFD Rating	CONSTANT 20:1			
Outline Dwg	037657-912			
Conn. Diag	EE7300			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
1.1880	1.7310	3.8410	4.9580	78.7720



Speed -Torque Curve

