

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 213THFND9076

Catalog No: W521A

3 HP Severe Duty Motor, 3 phase, 1200 RPM, 460 V, 213T Frame, TEFC
Severe Duty Motors



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RegalRexnord

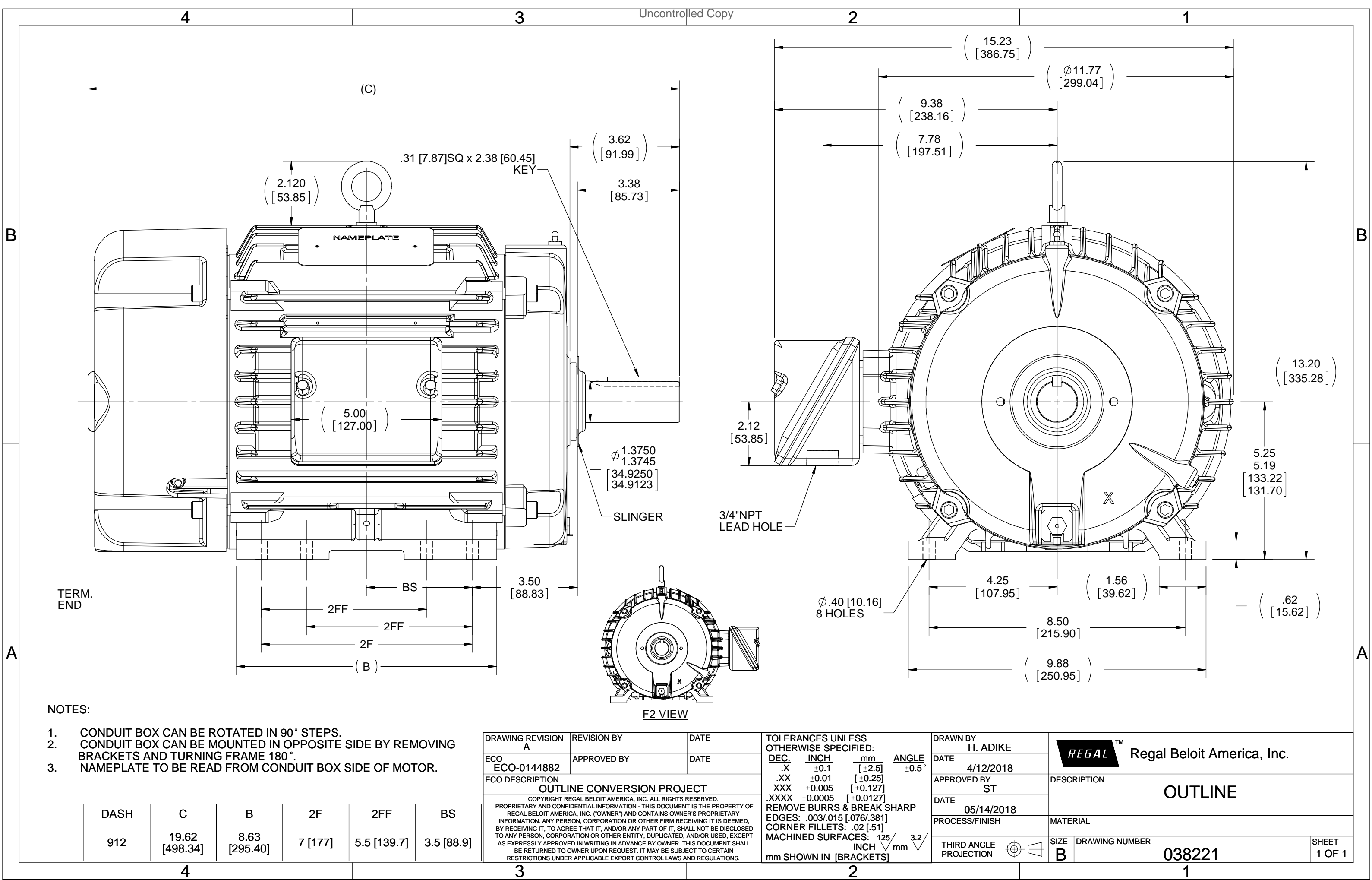
Nameplate Specifications

Output HP	3 Hp	Output KW	2.2 kW
Frequency	60 Hz	Voltage	460 V
Current	4.4 A	Speed	1175 rpm
Service Factor	1.15	Phase	3
Efficiency	89.5 %	Power Factor	71.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	K
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	56
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	2.7431 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	19.62 in
Frame Length	9.12 in	Shaft Diameter	1.375 in
Shaft Extension	3.38 in	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	038221-912	Connection Drawing	EE7300

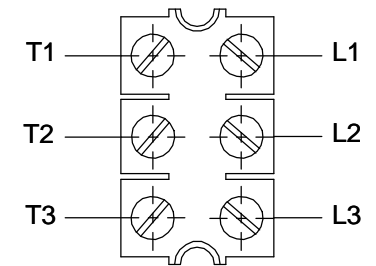
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THREE PHASE - SINGLE VOLTAGE MOTOR - CONDUIT BOX @ 'A'

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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DATA VOLTS: 460

CERTIFICATION DATA SHEET

CONN. DIAGRAM: EE7300
 REFERENCE MODEL #: 213THFND9076
 OUTLINE: 038221-912
 CAT #: W521A
 WINDING: K213699 NONE 1
 MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
3	2.2	1200	1175	213T	TEFC	TFN	K	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB (° C)	ELEV. (Ft)
3	60	460	4.4	LINE OR INVERTER	CONT	F	1.15	40	3300

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	SQ CAGE INV RATED

F.L. TORQUE	LR AMPS	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%	35

SOUND PRESSURE	SOUND	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	APROX.
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	PREMIUM SEVERE DUTY	DIVISION 2 T2B	NO	NONE	BLUE (EPOXY)

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
BALL BALL	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)	VIBRATION (in/sec)	FLOAT
1.721	1.503	6.713	7.138	98.208	0.080	ODE

* N O T E S *	If Inverter equals NONE, contact factory for further information	
	INVERTER TORQUE: CONSTANT 2:1	
	INV. HP SPEED RANGE: NONE	
	ENCODER: NONE	
	NONE PPR	

PREPARED BY: _____	BRAKE: NONE NONE FT-LB: NA VOLTAGE: NONE HZ:
DATE: 5/13/2020	

FORM: 3531 REV_4 2/27/06
** Subject to change without notice.

Data Sheet

Date: 5/6/2020
 Customer: _____
 Attention: _____
 Submitted by: _____

marathon
Motors

213THFND9076

Submittal

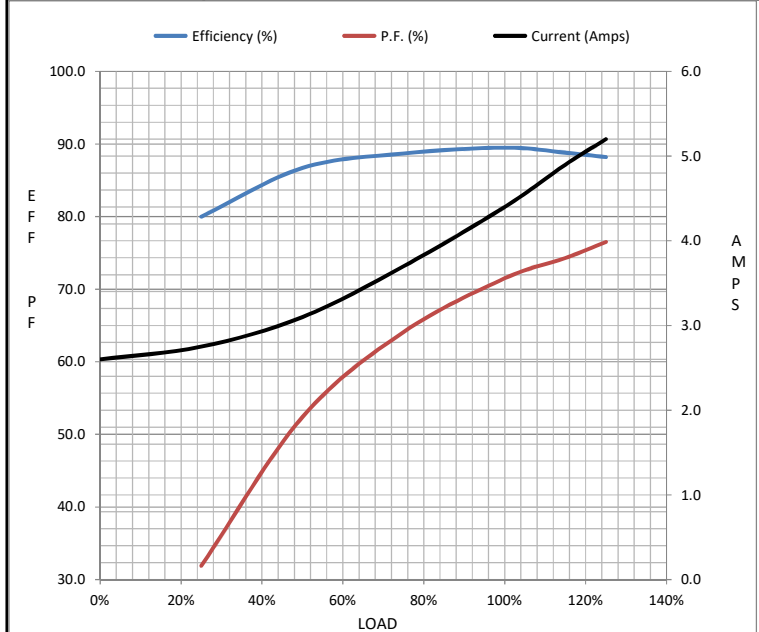
Data @ 460 V

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
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



Information Block				
HP		3.0		
Sync. RPM		1200		
Frame		213		
Enclosure		TEFC		
Construction		TFN		
Voltage		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		3,300	feet	
Rotor/Shaft wk²		0.80	Lb-Ft²	
Ref Wdg		K213699	NONE	
Sound Pressure @ 1M		55	dBA	
VFD Rating		CONSTANT 2:1		
Outline Dwg		038221-912		
Conn. Diag		EE7300		
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

