

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 213TTFW16082

Catalog No: E2161

General Purpose Motors, TEFC, 3 HP, 3 Ph, 60 Hz, 200 V, 1170 RPM, 213T

General Purpose Motors



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E

RegalRexnord

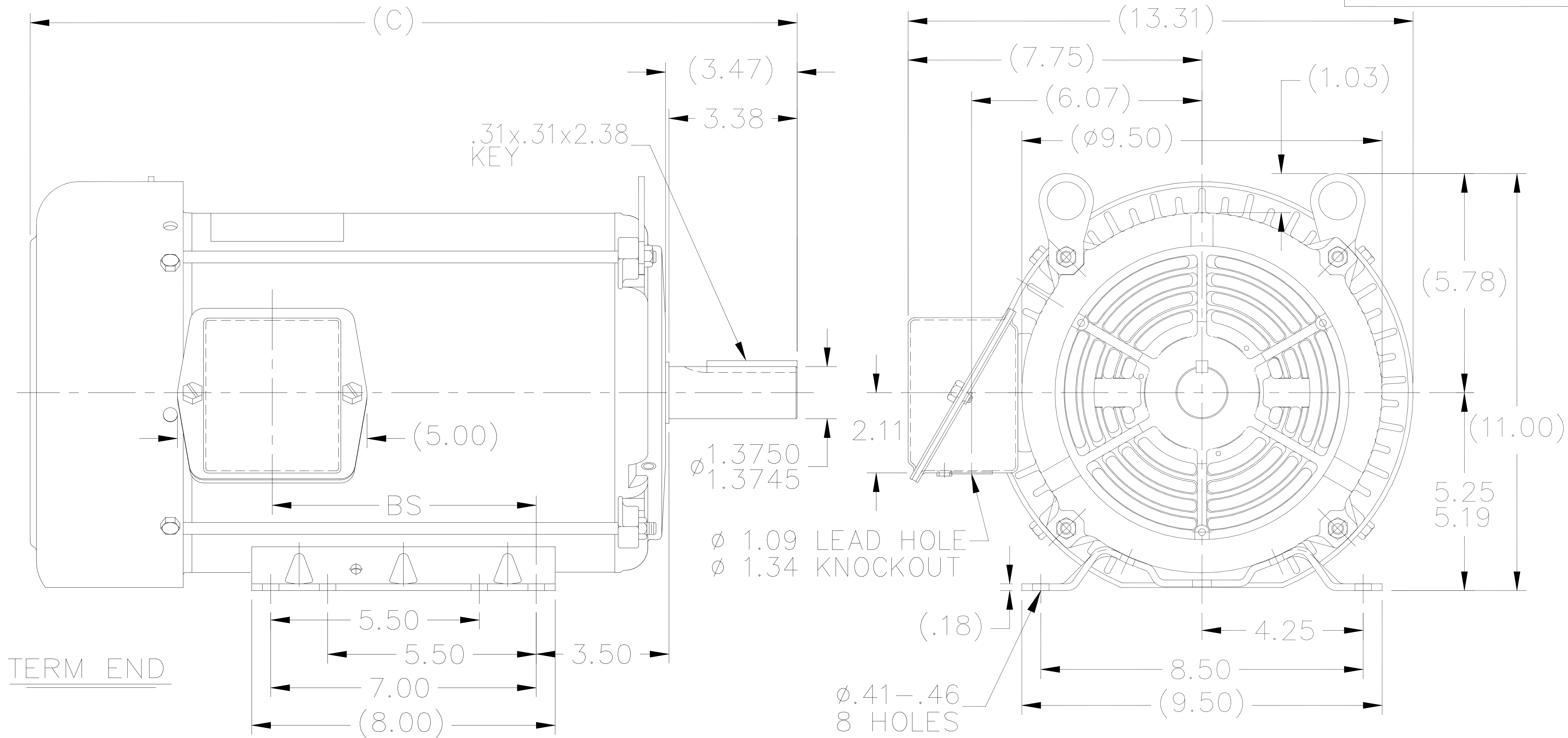
Nameplate Specifications

Output HP	3 Hp	Output KW	2.2 kW
Frequency	60 Hz	Voltage	200 V
Current	10.1 A	Speed	1170 rpm
Service Factor	1.15	Phase	3
Efficiency	89.5 %	Power Factor	70
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	6206
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

Technical Specifications


Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	6	Rotation	Reversible
Resistance Main	2.785 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	18.73 in
Frame Length	9.65 in	Shaft Diameter	1.375 in
Shaft Extension	3.47 in	Assembly/Box Mounting	F1/F2 Capable
Inverter Load	CONSTANT 10:1		
Outline Drawing	A-SS86560-965	Connection Drawing	A-EE7300

SS86560



- 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	213/15T	18.73	5.43	
1115	213/15T	20.23	6.93	
1240	213/15T	21.48	8.18	F1 ONLY

7	TITLE BLOCK LOGO CHANGE PER ECO-0078542	MDV 06/09/2015		TOLERANCES UNLESS SPECIFIED		 Regal Beloit America, Inc.				DRAWN DA 08-26-1994		
6	RE-ISSUED: REDRAWN AND REVISED DASH 965	ERH 12-04-2003		DEC.	INCHES					CHK ML 08-29-1994		
5	UPDATED C'BOX GEOMETRY CN 28425	DRS 01-31-2000		.X	±.1					APPD DRN 08-29-1994		
4	REMOVED GRD. SCREW FROM FRAME CN 24453	MJD 10-01-1997		.XX	±.03	TITLE OUTLINE 210T FR. - BB - TS - TEFC - R/S				SCALE 1=4		
3	REV.(13.21) WAS (12.39)&(3.47) WAS 3.47 CN23925-481	MH 09-10-1997		.XXX	±.005					REF		
2	UPDATED PER REDESIGN CN 21725-775	DA 08-13-1996		.XXXX	±.0005	MAT'L.				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 ss86560				SIZE	DRAWING NO.	PAGE OF	REV.
			DIST LB						A	SS86560		7

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		
<small>COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED, BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.</small>		

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
-----------	--------------------------	-----------------

CERTIFICATION DATA SHEET

Model#: 213TTFW16082 AA
 CONN. DIAGRAM: A-EE7300
 OUTLINE: A-SS86560-965

WINDING#: K213660 R11 1
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3	2.24	1200	1170	213T	TEFC	K	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	200	10.1	LINE OR INVERTER	CONTINUOU S	F3	1.15	40	3300

FULL LOAD EFF: 89.5	3/4 LOAD EFF: 89.5	1/2 LOAD EFF: 87.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 70	3/4 LOAD PF: 62	1/2 LOAD PF: 49.5	88.5	SQ CAGE INV RATED	5.8

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
13.5 LB-FT	73.6	34 LB-FT 252	47.5 LB-FT 352	45

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
55 dBA	65 dBA	0.8 LB-FT^2	90 LB-FT^2	25 SEC.	2	150 LBS.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
STANDARD	STANDARD	RIGID	HORIZONTAL	FALSE	NONE	FALSE	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6307	6206	POLYREX EM	T	NONE	NONE	1144 STRESSPROOF (C-223)	ROLLED STEEL

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE /n HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	NONE VOLTS

If Inverter equals NONE, contact factory for further information

INVERTER TORQUE: CONSTANT 10:1
INV. HP SPEED RANGE: NONE
ENCODER: NONE
NONE NONE
NONE NONE PPR
BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
- FT-LB NONE V NONE Hz

*
N
O
T
E
S
*

DATE: 06/22/2017 05:56:12 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 20-06-2017

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA



213TTFW16082

Submittal

Data @ 200 V

Motor Load Data

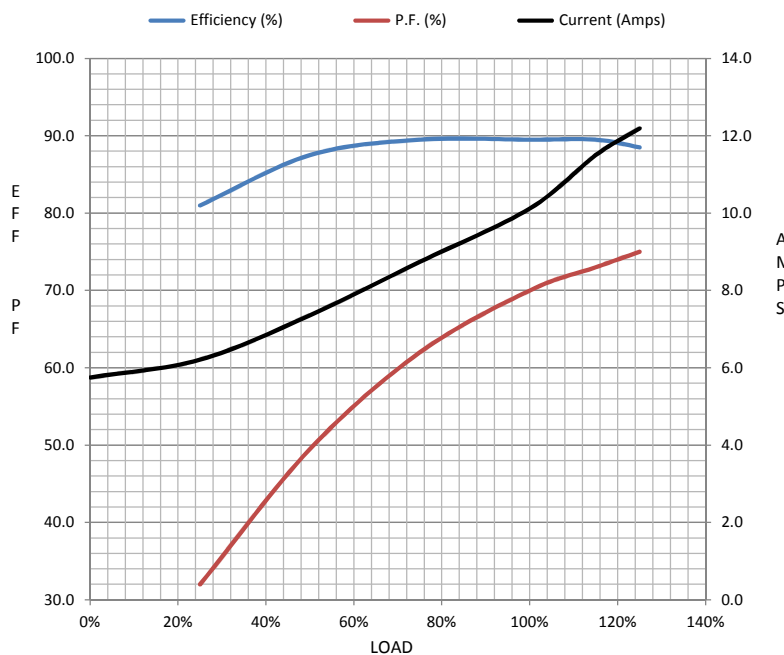
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	5.8	6.2	7.4	8.7	10.1	11.5	12.2	73.6	
Torque (ft-lb)	0.00	3.3	6.7	10.0	13.5	15.5	17.0	34.0	
RPM	1200	1194	1186	1180	1170	1,168	1166	0	
Efficiency (%)		81.0	87.5	89.5	89.5	89.5	88.5		
P.F. (%)	6.0	32.0	49.5	62.0	70.0	73.0	75.0	40.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1025	1170	1200
Current (Amps)	73.6	64.4	46.0	10.1	5.8
Torque (ft-lb)	34.0	32.0	47.5	13.5	0.00

Information Block

HP	3.0			
Sync. RPM	1200			
Frame	213			
Enclosure	TEFC			
Construction	TFW			
Voltage	200 V			
Frequency	60 Hz			
Design	B			
LR Code letter	K			
Service Factor	1.15			
Temp Rise @ FL	45 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk²	0.80 Lb-Ft²			
Ref Wdg	K213660 R11			
Sound Pressure @ 1M	55 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	A-SS86560-965			
Conn. Diag	A-EE7300			
Additional Specifications:				
0				
365THFS8036				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.3080	0.3000	1.2780	1.4720	17.9700



Speed -Torque Curve

