

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 215TTFW16042

Catalog No: C394A

10 HP General Purpose Motor, 3 phase, 1800 RPM, 575 V, 215TC Frame, TEFC
General Purpose Motors



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RegalRexnord

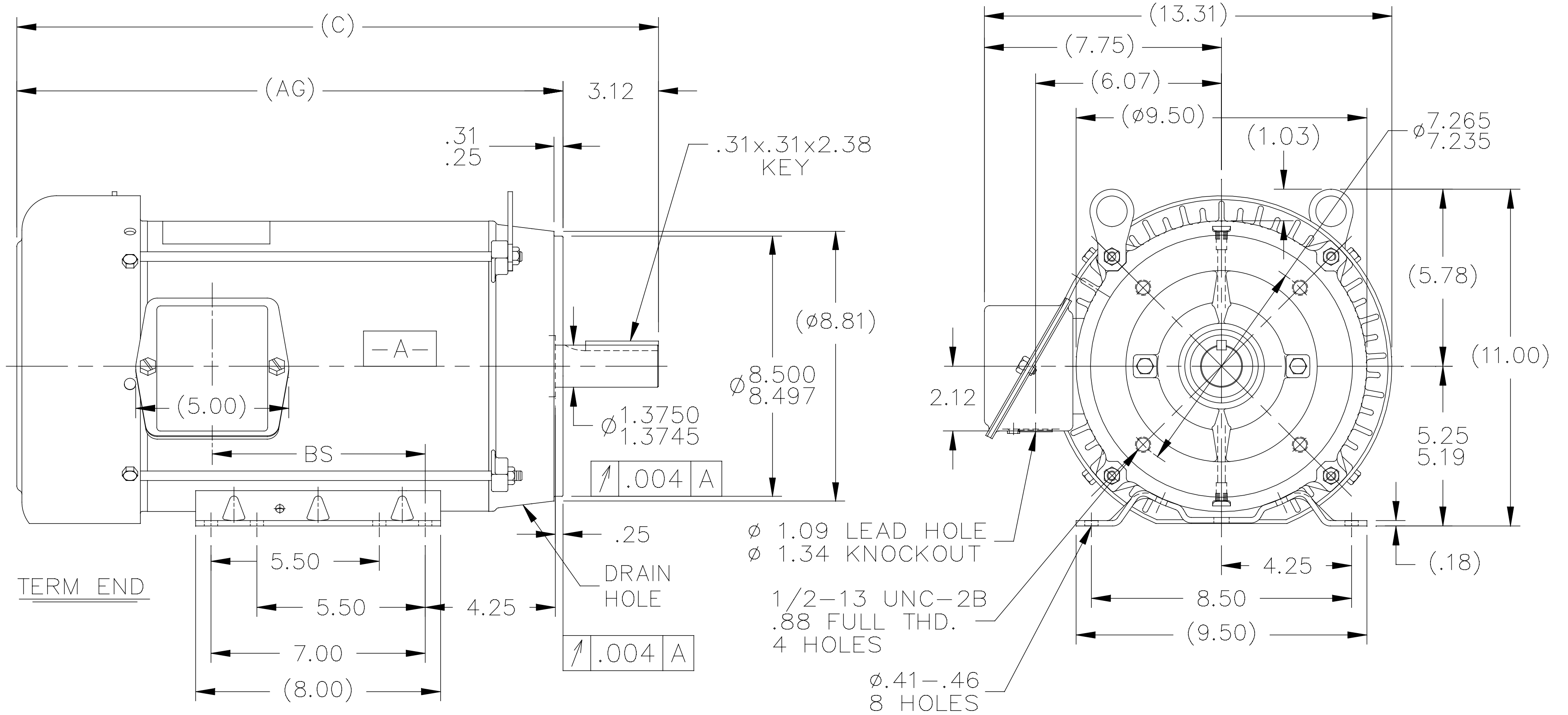
Nameplate Specifications

Output HP	10 Hp	Output KW	7.5 kW
Frequency	60 Hz	Voltage	575 V
Current	10.3 A	Speed	1760 rpm
Service Factor	1.15	Phase	3
Efficiency	91.7 %	Power Factor	80
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Frame	215TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6309	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	4	Rotation	Reversible
Resistance Main	.9 Ohms	Mounting	Bolt-on Base
Motor Orientation	Horizontal Or Shaft Down	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	T	Overall Length	20.97 in
Frame Length	11.15 in	Shaft Diameter	1.375 in
Shaft Extension	3.12 in	Assembly/Box Mounting	F1/F2 Capable
Outline Drawing	A-SS88652-1115	Connection Drawing	A-EE7300


SS88652



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.)
4. BASE IS REMOVABLE.
5. PROVISIONS ONLY FOR DRIP COVER.

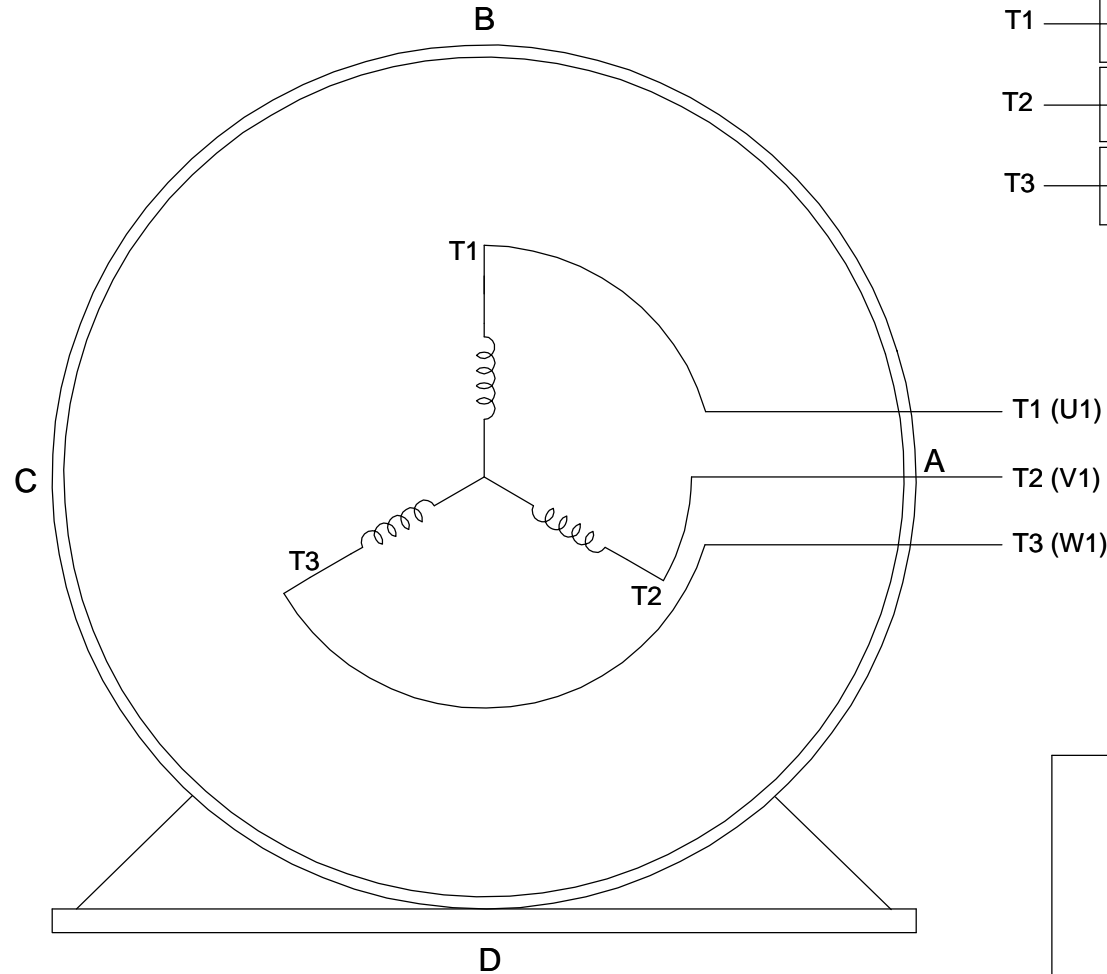
DASH	FR.	C	AG	BS	MOUNTING
965	213T	19.47	16.35	5.43	
1115	213/15T	20.97	17.85	6.93	
1240	213/15T	22.22	19.10	8.18	F1 ONLY

				TOLERANCES UNLESS SPECIFIED		<div> Regal Beloit America, Inc.</div>			DRAWN NJS 05-01-2002		
5	TITLE BLOCK LOGO CHANGE PER ECO-0078542	MDV 06/09/2015		DEC.	INCHES				CHK ML 05-02-2002		
4	UPDATED DRAWING	TJW 05/04/2007		.X	±.1				APPD DR 05-02-2002		
3	RELOCATED DRAIN HOLE CN 35571	DRS 12-02-2002	ML	.XX	±.03	TITLE OUTLINE – TEFC 210T FR. – BB – TS – R/S – C'FACE			SCALE 1=5		
2	ADDED DRAIN HOLE CN 31828	MSG 09-23-2002		.XXX	±.005				REF		
1	NEW DRAWING MU41351	NJS 05-03-2002	DR	.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 ss88652			SIZE A	DRAWING NO. PAGE OF SS88652		REV. 5
			DIST LB								

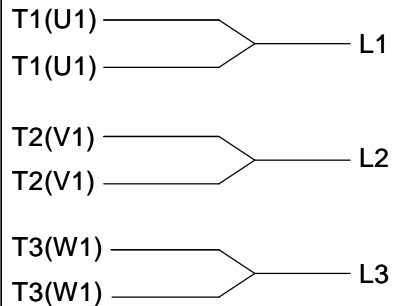
THREE PHASE - SINGLE VOLTAGE MOTOR - CONDUIT BOX @ 'A'

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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CERTIFICATION DATA SHEET

Model#: 215TTFW16042 AA
 CONN. DIAGRAM: A-EE7300
 OUTLINE: A-SS88652-1115

WINDING#: K2154425 NONE 5
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
10	7.5	1800	1760	215TC	TEFC	H	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	10.3	LINE OR INVERTER	CONTINUOU S	F3	1.15	40	3300

FULL LOAD EFF: 91.7	3/4 LOAD EFF: 91.7	1/2 LOAD EFF: 91	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 80	3/4 LOAD PF: 75	1/2 LOAD PF: 65	90.2	SQ CAGE INV RATED	4.4

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
29.8 LB-FT	64	65 LB-FT 218	90 LB-FT 302	65

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS /HOUR	APPROX. MOTOR WGT
62 dBA	72 dBA	1.1 LB-FT^2	50 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
C-FACE	STANDARD	BOLT-ON	HORIZONTAL OR SHAFT DOWN	FALSE	NONE	PROVISIONS ONLY	NONE	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	OPE						
BALL	BALL						
6309	6206	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	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

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DATE: 06/22/2017 08:22:16 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/29/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



215TTFW16042

Submittal

Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	4.4	5.0	6.2	8.2	10.2	11.6	12.6	64.0	
Torque (ft-lb)	0.00	7.5	14.5	22.0	29.8	34.5	37.5	65.0	
RPM	1800	1790	1780	1770	1760	1,750	1745	0	
Efficiency (%)		87.5	91.0	91.7	91.7	91.0	90.2		
P.F. (%)	5.5	44.0	65.0	75.0	80.0	82.0	82.0	42.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle					
Speed (RPM)	0	900	1575	1760	1800					
Current (Amps)	64.0	57.6	39.2	10.2	4.4					
Torque (ft-lb)	65.0	58.0	90.0	29.8	0.00					
<div><div>— Efficiency (%) — P.F. (%) — Current (Amps)</div><div>EFFICIENCY (%)</div><div>P.F. (%)</div><div>CURRENT (AMPS)</div><div>LOAD</div></div>						Information Block				
						HP		10.0		
						Sync. RPM		1800		
						Frame		215		
						Enclosure		TEFC		
						Construction		TFW		
						Voltage		575 V		
						Frequency		60 Hz		
						Design		B		
						LR Code letter		H		
						Service Factor		1.15		
						Temp Rise @ FL		65 ° C		
						Duty		CONT		
						Ambient		40 ° C		
						Elevation		1,000 feet		
						Rotor/Shaft wk²		1.10 Lb-Ft²		
						Ref Wdg		K2154425 NONE		
Sound Pressure @ 1M		62 dBA								
VFD Rating		CONSTANT 10:1								
Outline Dwg		A-SS88652-1115								
Conn. Diag		A-EE7300								
Additional Specifications:										
0										
0										
EQUIV CKT (OHMS / PHASE)										
R1		R2		X1		X2		Xm		
0.9320		0.7630		3.2620		5.1030		77.0790		

Speed -Torque Curve

