

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 215TTFW16040

Catalog No: E2144

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



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RegalRexnord

Nameplate Specifications

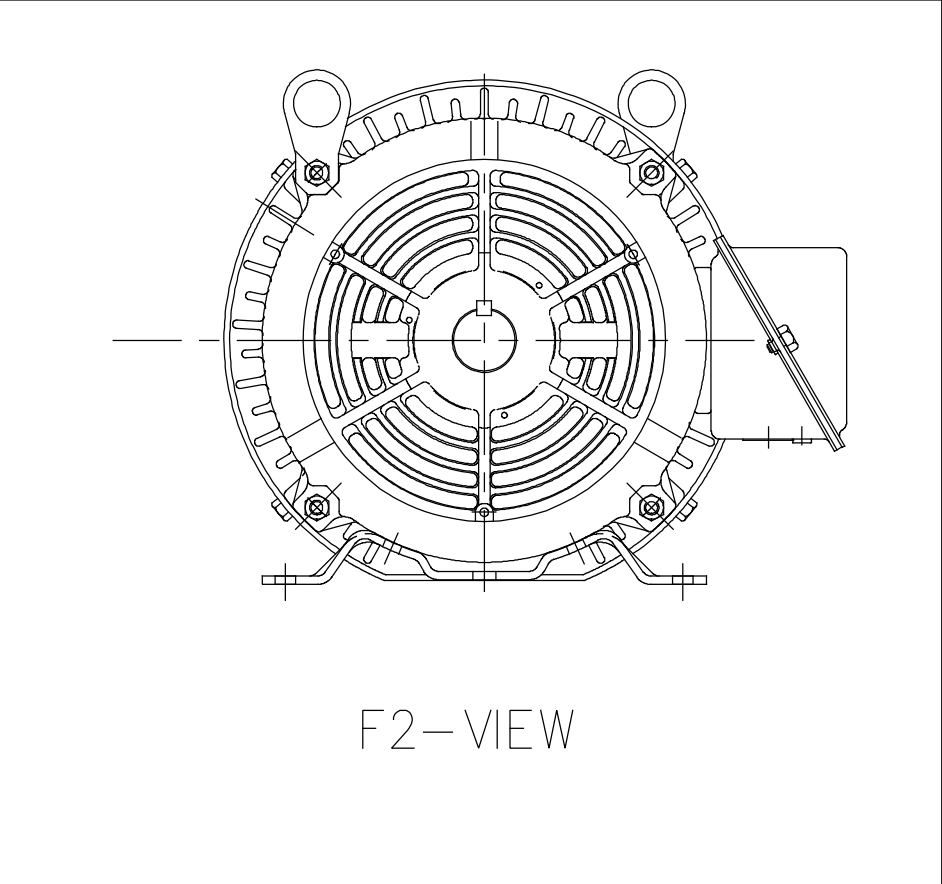
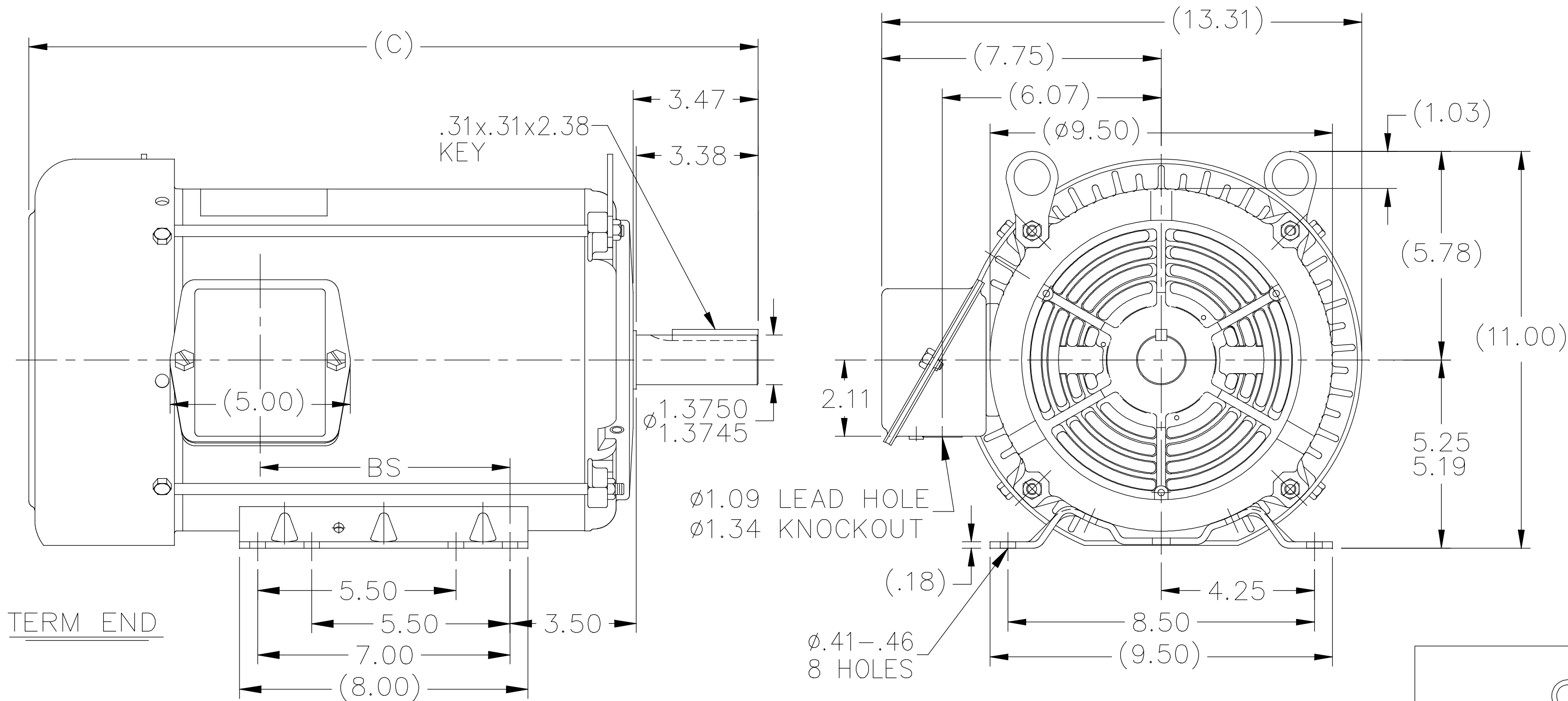
Output HP	10 Hp	Output KW	7.5 kW
Frequency	60 Hz	Voltage	575 V
Current	10.4 A	Speed	1760 rpm
Service Factor	1.15	Phase	3
Efficiency	91.7 %	Power Factor	78.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Frame	215T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No	Ambient Temperature	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	4	Rotation	Reversible
Resistance Main	.839 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	21.48 in
Frame Length	12.40 in	Shaft Diameter	1.375 in
Shaft Extension	3.47 in	Assembly/Box Mounting	F1/F2 Capable
Connection Drawing	A-EE7300	Outline Drawing	A-SS88975-1240


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SS88975



DASH	FR.	C	BS	MOUNTING
965	213T	18.73	5.43	
1115	213/15T	20.23	6.93	F2 ONLY
1240	213/15T	21.48	8.18	F1 ONLY OR F2 ONLY

- 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.)

				TOLERANCES UNLESS SPECIFIED		 Regal Beloit America, Inc.	DRAWN ERH 12-08-2003			
				DEC.	INCHES		CHK	ML	12-08-2003	
4	UPDTED F2 ONLY FOR 1115 CONFIG PER ECO-0168214	VMR 06/03/2019	RG	.X	±.1	TITLE OUTLINE 210T FR.-BB-TS-TEFC-R/S	APPD	DR	12-09-2003	
3	NOTE UPDATED	SAJ 08/24/15	SR	.XX	±.03		SCALE 1=4			
2	TITLE BLOCK LOGO CHANGE PER ECO-0078542	MDV 06/09/2015		.XXX	±.005		REF			
1	REMOVE HOLE AND BOLT SIDE VIEW CN24453	RWR 01/30/2004	ML	.XXXX	±.0005	MAT'L.	FMF	MU	49283	
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	12-09-2003	CAD FILE ss88975	SIZE	DRAWING NO.	PAGE	OF
				DIST	LB		A	SS88975		REV.
								4		

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#: 215TTFW16040 AA
 CONN. DIAGRAM: A-EE7300
 OUTLINE: A-SS88975-1240

WINDING#: K2154485 NONE 2
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
10	7.50	1800	1760	215T	TEFC	H	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60	575	10.4	ACROSS THE LINE	CONTINUOUS	F4	1.15	40	3300

FULL LOAD EFF: 91.7	3/4 LOAD EFF: 91.7	1/2 LOAD EFF: 91.7	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 78.5	3/4 LOAD PF: 73	1/2 LOAD PF: 61.5	89.5	SQ CAGE IND RUN	4.9

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
29.8 LB-FT	66	73.5 LB-FT 247	88.7 LB-FT 298	60

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	0 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	AISI 1045 (C-240)	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: NONE
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 08:21:07 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/19/2017

Customer: _____

Attention: _____

Submitted by: FAREEDA DUDEKULA



215TTFW16040

Submittal

Data @ 575 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	4.9	5.4	6.6	8.3	10.4	11.8	12.6	66.0	
Torque (ft-lb)	0.00	7.4	14.8	22.2	29.8	34.5	37.6	73.5	
RPM	1800	1790	1780	1770	1760	1,750	1745	0	
Efficiency (%)		88.5	91.7	91.7	91.7	90.2	90.2		
P.F. (%)	4.5	39.0	61.5	73.0	78.5	80.5	81.5	43.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle																													
Speed (RPM)	0	900	1605	1760	1800																													
Current (Amps)	66.0	59.4	39.2	10.4	4.9																													
Torque (ft-lb)	73.5	66.2	88.7	29.8	0.00																													
<div><div><div>Efficiency (%)</div><div>P.F. (%)</div><div>Current (Amps)</div></div><table><caption>Graph Data (Approximate)</caption><thead><tr><th>Load (%)</th><th>Efficiency (%)</th><th>P.F. (%)</th><th>Current (Amps)</th></tr></thead><tbody><tr><td>25</td><td>88</td><td>38</td><td>5.4</td></tr><tr><td>50</td><td>92</td><td>65</td><td>6.5</td></tr><tr><td>75</td><td>91</td><td>78</td><td>7.8</td></tr><tr><td>100</td><td>91</td><td>85</td><td>9.0</td></tr><tr><td>125</td><td>90</td><td>88</td><td>10.4</td></tr></tbody></table></div>						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)	25	88	38	5.4	50	92	65	6.5	75	91	78	7.8	100	91	85	9.0	125	90	88	10.4					
						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)																									
						25	88	38	5.4																									
						50	92	65	6.5																									
						75	91	78	7.8																									
						100	91	85	9.0																									
						125	90	88	10.4																									
						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					60 ° C																													
Duty					CONT																													
Ambient					40 ° C																													
Elevation					1,000 feet																													
Rotor/Shaft wk²					1.10 Lb-Ft²																													
Ref Wdg					K2154485 NONE																													
Sound Pressure @ 1M					62 dBA																													
VFD Rating					NONE																													
Outline Dwg					A-SS88975-1240																													
Conn. Diag					A-EE7300																													
Additional Specifications:																																		
0																																		
0																																		
EQUIV CKT (OHMS / PHASE)																																		
R1		R2		X1		X2		Xm																										
0.8560		0.7230		2.8670		4.2070		67.0910																										

Speed -Torque Curve

