

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 215TTFW16079

Catalog No: C388A

XRI® General Purpose General Purpose Motor, 5 & 3 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,  
1200 & 1000 RPM, 215TC Frame, TEFC



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**RegalRexnord**

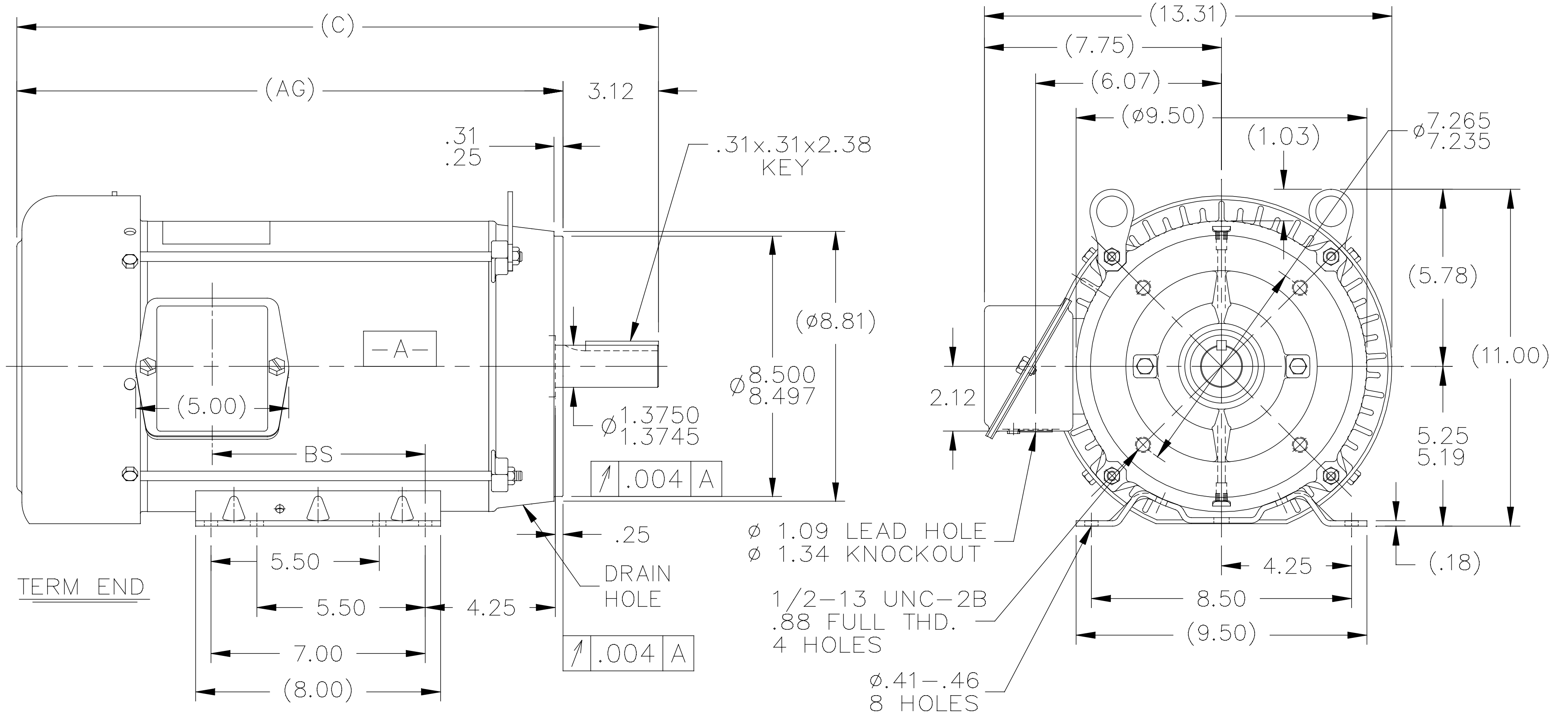
### Nameplate Specifications

Phase	3	Output HP	5 & 3 Hp
Output KW	3.7 & 2.2 kW	Voltage	230/460 & 190/380 V
Speed	1170 & 980 rpm	Service Factor	1.15 & 1.15
Frame	215TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	90.2 & 90.2 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	14/7 & 11.2/5.6 A	Power Factor	75
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	J
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 Induction Run	Starting Method	Across The Line
Poles	6	Rotation	Reversible
Resistance Main	1.65 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	22.22 in
Frame Length	12.40 in	Shaft Diameter	1.375 in
Shaft Extension	3.12 in	Assembly/Box Mounting	F1 ONLY
Outline Drawing	SS88652-1240	Connection Drawing	A-EE7308


SS88652

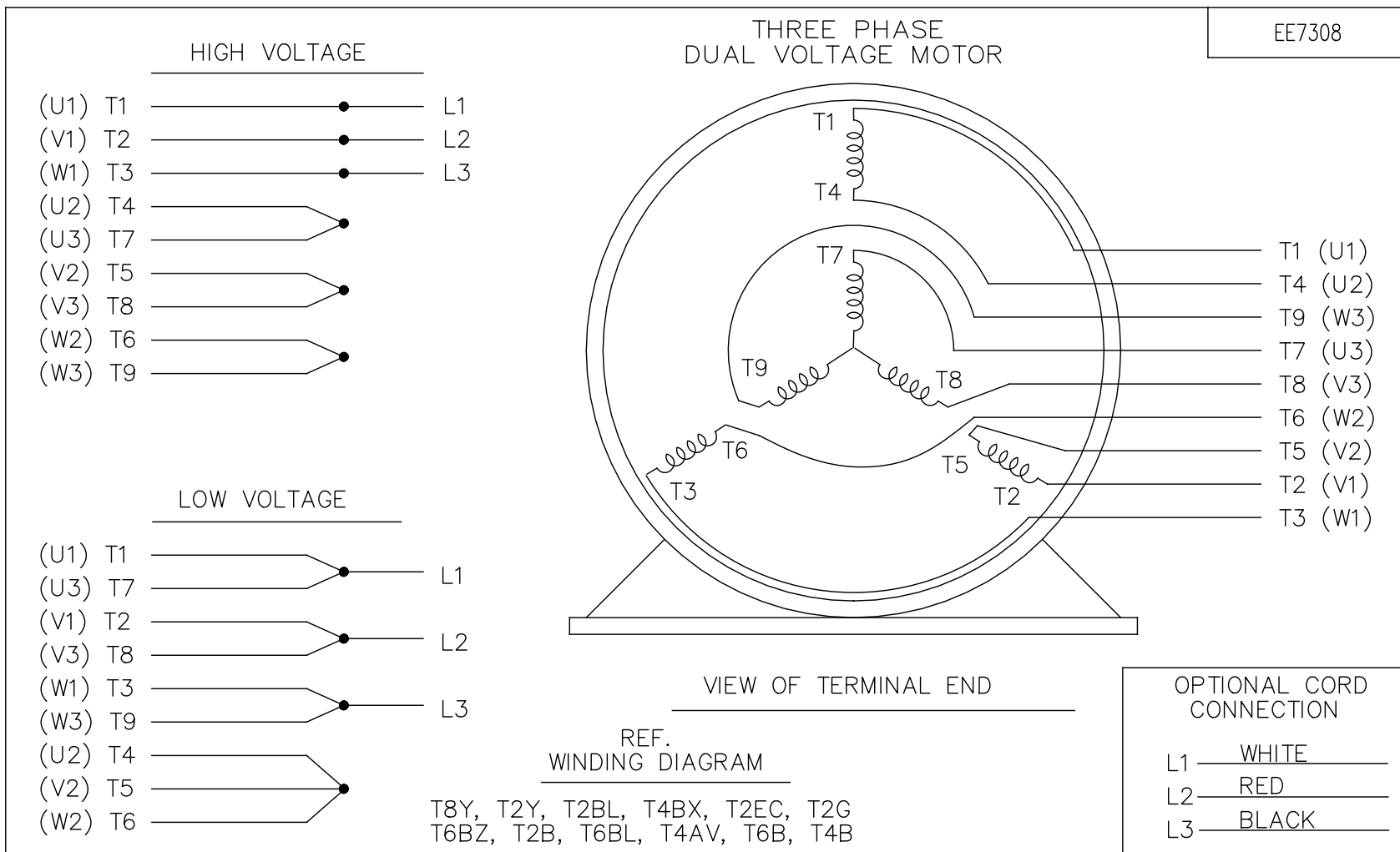


NOTES:

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		 <b>Regal Beloit America, Inc.</b>			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. SS88652	PAGE OF	REV. 5
			DIST LB								



NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED		FINISH	SIZE	DRAWING NO.	PAGE	OF	REV.
					DEC.	INCHES						
5	CHG TO REGAL LOGO	SL 09/10/2015	AB		DEC.	INCHES						
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN	.X		±.1						
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS	.XX		±.02						
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XXX		±.005						
1	REDRAWN	RM 11/20/1990		.XXXX		±.0005						
						±7'30"						
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 ee7308			
								DIST WP		A	EE7308	5



Regal Beloit America, Inc.

DRAWN RM 11/20/1990

CHK ML 11/21/1990

APPD SAS 04/24/2003

SCALE 1=1

REF

FMF

PREV

TITLE CONNECTION DIAGRAM  
3Ø - DUAL VOLTAGE MOTOR

MAT'L.

## CERTIFICATION DATA SHEET

Model#: 215TTFW16079 AA  
 CONN. DIAGRAM: A-EE7308  
 OUTLINE: SS88652-1240

WINDING#: K2156166 NONE 2  
 ASSEMBLY: F1 ONLY

## TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
5&3	3.7&2.24	1200	1170&980	215TC	TEFC	J	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	14/7&11.2/5.6	ACROSS THE LINE	CONTINUOU S	F3	1.15/1.15	40	3300

FULL LOAD EFF: 90.2&90.2	3/4 LOAD EFF: 90.2	1/2 LOAD EFF: 89.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 75&67	3/4 LOAD PF: 67	1/2 LOAD PF: 55	88.5	SQ CAGE IND RUN	7.4 / 3.7

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
22.5 LB-FT	92 / 46	47 LB-FT 209	79 LB-FT 351	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	1 LB-FT^2	80 LB-FT^2	25 SEC.	2	140 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	POLYREX EM	T	NONE	NONE	1045 HOT ROLLED (C-204)	ROLLED STEEL
6309	6206						

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

\*  
N  
O  
T  
E  
S  
\*

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

DATE: 06/22/2017 08:23:42 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



215TTFW16079

Submittal

Data @ 460 V

## Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	3.7	4.0	4.7	5.8	7.0	7.7	8.4	46.0	
Torque (ft-lb)	0.00	5.5	11.0	16.8	22.5	26.0	28.5	47.0	
RPM	1200	1192	1185	1175	1170	1,165	1160	0	
Efficiency (%)		84.0	89.5	90.2	90.2	89.5	88.5		
P.F. (%)	5.0	35.0	55.0	67.0	75.0	76.5	78.0	41.0	

## Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle	Information Block																												
Speed (RPM)	0	400	1000	1170	1200	HP		5.0																										
Current (Amps)	46.0	40.0	30.0	7.0	3.7	Sync. RPM		1200																										
Torque (ft-lb)	47.0	40.0	79.0	22.5	0.00	Frame		215																										
<div><div>Efficiency (%)</div><div>P.F. (%)</div><div>Current (Amps)</div></div> <table border="1"><caption>Graph Data Points (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>84</td><td>35</td><td>3.8</td></tr><tr><td>50</td><td>89</td><td>55</td><td>5.5</td></tr><tr><td>75</td><td>90</td><td>68</td><td>7.2</td></tr><tr><td>100</td><td>90</td><td>75</td><td>8.0</td></tr><tr><td>125</td><td>88</td><td>78</td><td>8.5</td></tr></tbody></table>						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)	25	84	35	3.8	50	89	55	5.5	75	90	68	7.2	100	90	75	8.0	125	88	78	8.5	Enclosure		TEFC		
						Load (%)	Efficiency (%)	P.F. (%)	Current (Amps)																									
						25	84	35	3.8																									
						50	89	55	5.5																									
						75	90	68	7.2																									
						100	90	75	8.0																									
						125	88	78	8.5																									
						Construction		TFW																										
						Voltage		30/460#190/381V																										
						Frequency		60 Hz																										
						Design		B																										
						LR Code letter		J																										
						Service Factor		1.15																										
						Temp Rise @ FL		45 ° C																										
						Duty		CONT																										
						Ambient		40 ° C																										
						Elevation		1,000 feet																										
						Rotor/Shaft wk²		1.00 Lb-Ft²																										
						Ref Wdg		K2156166 NONE																										
						Sound Pressure @ 1M		55 dBA																										
						VFD Rating		NONE																										
						Outline Dwg		SS88652-1240																										
						Conn. Diag		A-EE7308																										
						Additional Specifications:																												
						0																												
						0																												
EQUIV CKT (OHMS / PHASE)																																		
R1	R2	X1	X2	Xm																														
1.1360	1.1930	4.4930	4.6860	67.7060																														

## Speed -Torque Curve

