

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 213TTFW16076

Catalog No: E2111

XRI® General Purpose General Purpose Motor, 3 & 3 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V,
1200 & 1000 RPM, 213T Frame, TEFC



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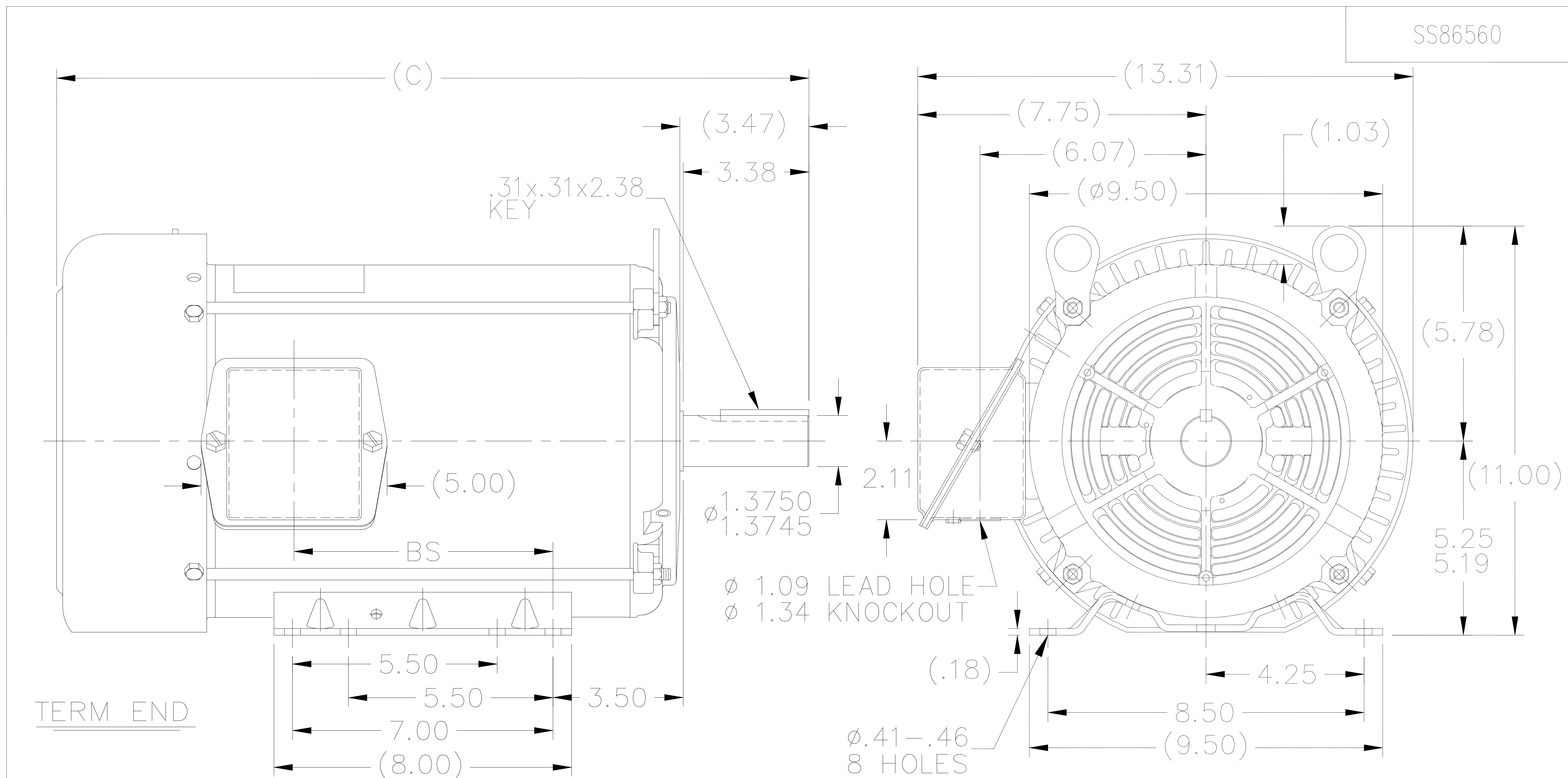
RegalRexnord

Nameplate Specifications

Phase	3	Output HP	3 & 3 Hp
Output KW	2.2 & 2.2 kW	Voltage	230/460 & 190/380 V
Speed	1170 & 965 rpm	Service Factor	1.15 & 1.0
Frame	213T	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	89.5 & 87.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	8.8/4.4 & 10/5 A	Power Factor	70
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	K
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 Induction Run	Starting Method	Across The Line
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
Outline Drawing	A-SS86560-965	Connection Drawing	A-EE7308

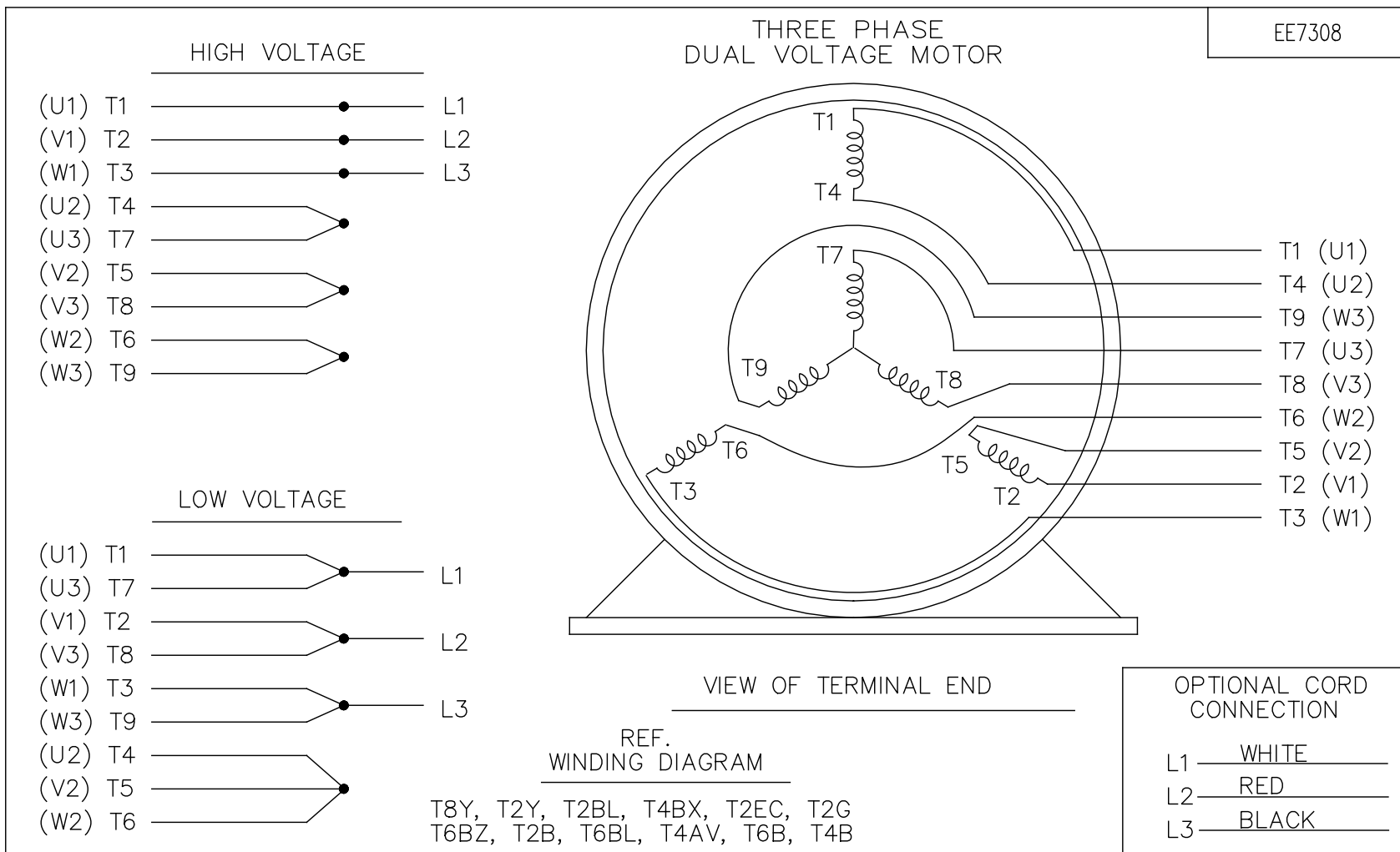


DASH	FR.	C	BS	MOUNTING
965	213/15T	18.73	5.43	
1115	213/15T	20.23	6.93	
1240	213/15T	21.48	8.18	F1 ONLY

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.)

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		SCALE 1=4				
3	REV.(13.21) WAS (12.39)&(3.47) WAS 3.47 CN23925-481	MH 09-10-1997	.XXX	±.005	TITLE OUTLINE 210T FR. - BB - TS - TEFC - R/S	REF				
2	UPDATED PER REDESIGN CN 21725-775	DA 08-13-1996	.XXXX	±.0005		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



NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED	DEC.	INCHES	DRAWN RM	11/20/1990
5	CHG TO REGAL LOGO	SL 09/10/2015	AB					CHK	ML 11/21/1990
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN	.X	±.1			APPD	SAS 04/24/2003
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS	.XX	±.02			SCALE	1=1
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS	.XXX	±.005			REF	
1	REDRAWN	RM 11/20/1990		.XXXX	±.0005			FINISH	
					±7'30"			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 ee7308	SIZE	DRAWING NO. PAGE OF REV.
						DIST WP		A	EE7308 5

CERTIFICATION DATA SHEET

Model#: 213TTFW16076 AA
 CONN. DIAGRAM: A-EE7308
 OUTLINE: A-SS86560-965

WINDING#: K213660 R11 6
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
3&3	2.24&2.24	1200	1170&965	213T	TEFC	K	B

PH	Hz	VOLTS	FL AMPS	START TYPE	DUTY	INSL	S.F	AMB°C	ELEVATION
3	60/50	230/460#190/ 380	8.8/4.4&10/5	ACROSS THE LINE	CONTINUOU S	F4	1.15/1.0	40	3300

FULL LOAD EFF: 89.5&87.5	3/4 LOAD EFF: 89.5	1/2 LOAD EFF: 87.5	GTD. EFF	ELEC. TYPE	NO LOAD AMPS
FULL LOAD PF: 70&77	3/4 LOAD PF: 62	1/2 LOAD PF: 49.5	88.5	SQ CAGE IND RUN	5 / 2.5

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
13.5 LB-FT	64 / 32	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	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: 06/21/2017 09:47:29 AM
 FORM 3531 REV.3 02/07/99
 ** Subject to change without notice.

Data Sheet

Date: 6/16/2017

Customer: _____

Attention: _____

Submitted by: EARL BABBITTS



213TTFW16076

Submittal

Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	2.50	2.70	3.2	3.8	4.4	5.0	5.3	32.0	
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	Information Block				
Speed (RPM)	0	600	1025	1170	1200	HP	3.0			
Current (Amps)	32.0	28.0	20.0	4.4	2.50	Sync. RPM	1200			
Torque (ft-lb)	34.0	32.0	47.5	13.5	0.00	Frame	213			
— Efficiency (%) — P.F. (%) — Current (Amps) EFFICIENCY (%) P.F. (%) CURRENT (AMPS) LOAD						Enclosure	TEFC			
						Construction	TFW			
						Voltage	30/460#190/381V			
						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 wk ²	0.80 Lb-Ft ²			
						Ref Wdg	K213660 R11			
						Sound Pressure @ 1M	55 dBA			
						VFD Rating	NONE			
						Outline Dwg	A-SS86560-965			
						Conn. Diag	A-EE7308			
Additional Specifications:										
0										
0										
EQUIV CKT (OHMS / PHASE)										
R1		R2		X1		X2		Xm		
1.6270		1.5890		6.7630		7.7850		95.0630		

Speed -Torque Curve

