

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 215TTFWD16047

Catalog No: E2019B

XRI® General Purpose General Purpose Motor, 10 & 10 HP, 3 Ph, 60 & 50 Hz, 208-230/460 & 200/400 V,  
1800 & 1500 RPM, 215TC Frame, TEFC



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**RegalRexnord**

## Nameplate Specifications

Phase	3	Output HP	10 & 10 Hp
Output KW	7.5 & 7.5 kW	Voltage	208-230/460 & 200/400 V
Speed	1760 & 1450 rpm	Service Factor	1.15 & 1.0
Frame	215TC	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Efficiency	91.7 & 89.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	14-26.4/13.2 & 30/15.1 A	Power Factor	77.5
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	H
Drive End Bearing Size	6309	Opp Drive End Bearing Size	6206
UL	Recognized	CSA	Y
CE	Y	IP Code	43
Number of Speeds	1		

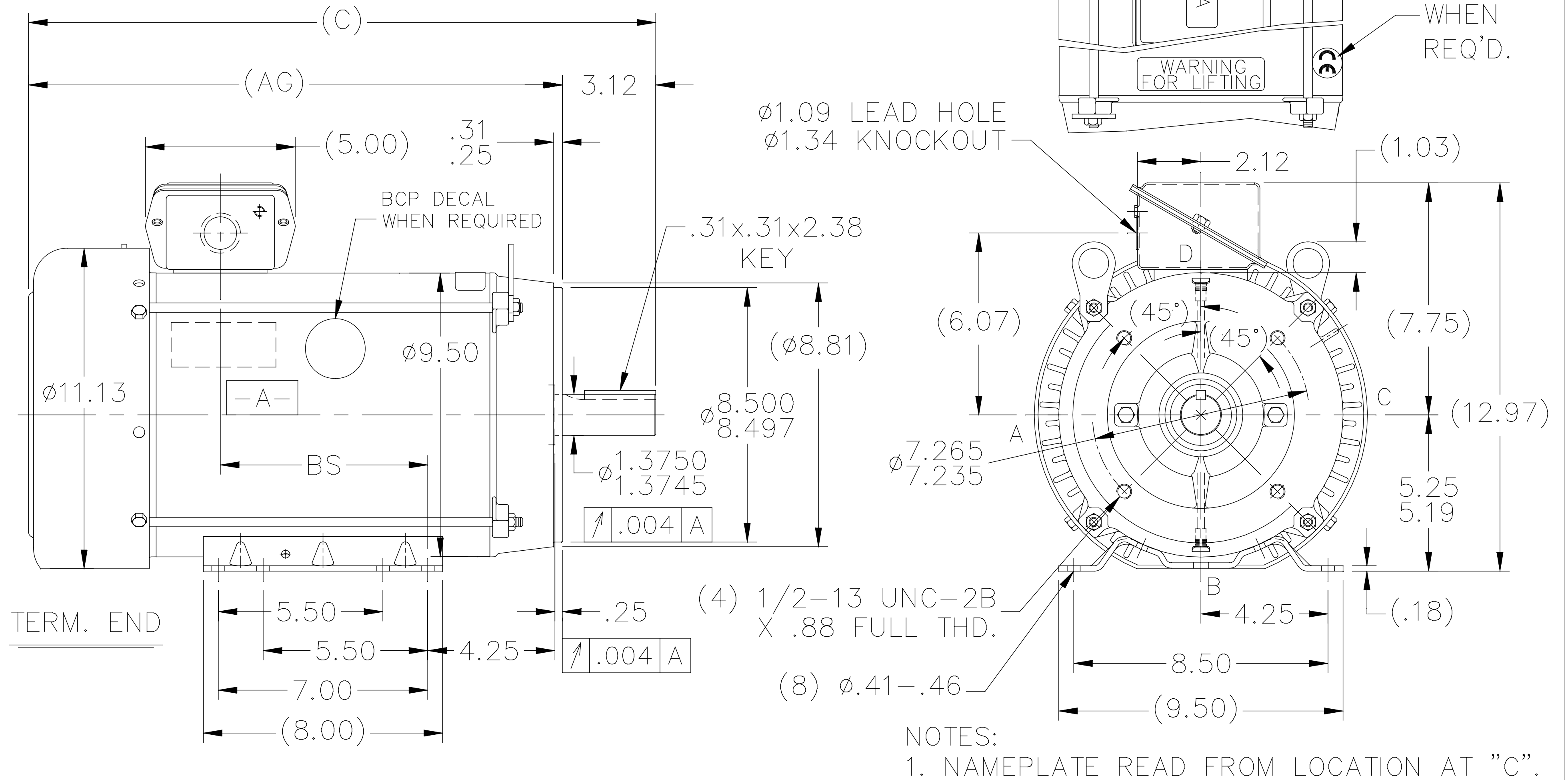
## Technical Specifications


Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Resistance Main	.9 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	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	F3
Inverter Load	CONSTANT 10:1		
Outline Drawing	SS88794-1240	Connection Drawing	005010.01



DASH	FR.	C	AG	BS
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

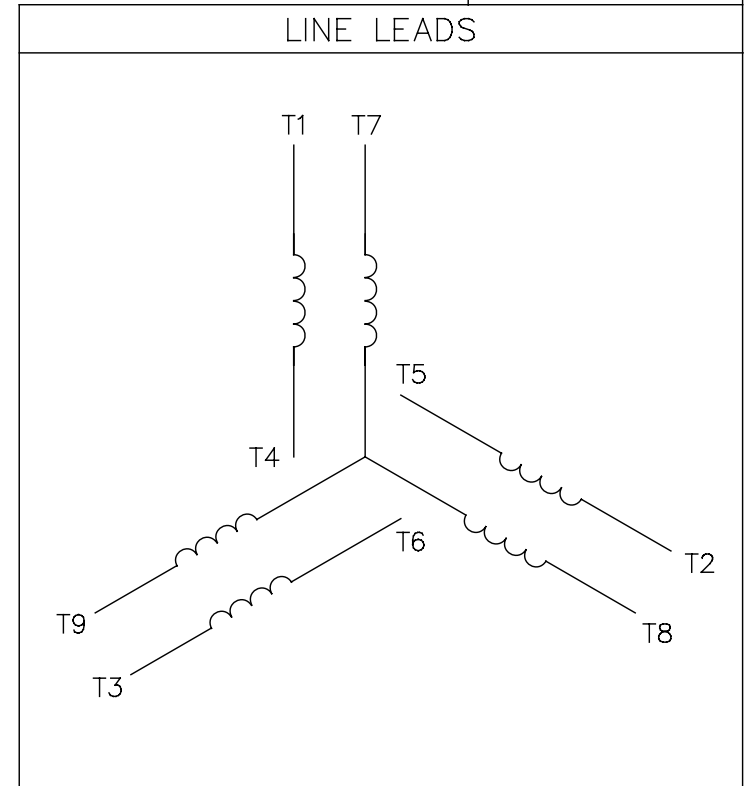
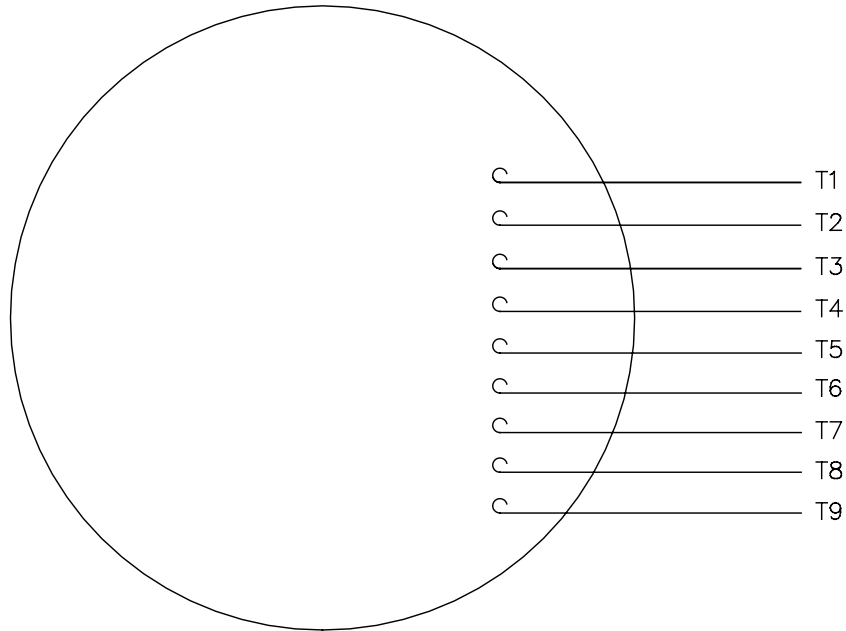
SS88794




				TOLERANCES UNLESS SPECIFIED		<div> <b>Regal Beloit America, Inc.</b></div>				DRAWN TAT 08-13-2004				
				DEC.	INCHES					CHK ML 08-13-2004				
				.X	±.1					APPD TB 08-13-2004				
				.XX	±.03					SCALE 1=5				
				.XXX	±.005	TITLE OUTLINE – F3 C'BOX MOUNTING 210T FR. –BB–TS–TEFC–R/S – C'FACE				REF				
1	TITLE BLOCK LOGO CHANGE PER ECO-0078542		MDV 06/09/2015	.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 ss88794			SIZE A	DRAWING NO. PAGE OF		REV. 1	
				DIST LB							SS88794			

005010-01

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



VOLTAGE	L1	L2	L3	JOIN & INSULATE
HIGH	T1	T2	T3	(T4,T7) (T5,T8) (T6,T9)
LOW	T1,T7	T2,T8	T3,T9	T4,T5,T6

				TOLERANCES UNLESS SPECIFIED		 <b>Regal Beloit America, Inc.</b>			DRAWN RDW 04/12/02		
				DEC.	INCHES				CHK		
				.X	±.1				APPD		
				.XX	±.01				SCALE 1=1		
				.XXX	±.005	TITLE EXTERNAL WIRING DIAGRAM 3 PHASE W/O PROTECTOR			REF FIG.2-51		
A	UPDATED TO REGAL LOGO	SAJ 06/26/15	AJY	.XXXX	±.0005				MAT'L DECAL - 004014		
NO.	REVISION	BY & DATE	CHK	ANG	±1/2"	FINISH			PREV		
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				DIST BRF-NLV				A	005010-01		A



P.O. BOX 8003  
WAUSAU, WI 54401-8003  
PH. 715-675-3311

DATA VOLTS: 460

### CERTIFICATION DATA SHEET

CUSTOMER: \_\_\_\_\_ CUSTOMER P.O. #: \_\_\_\_\_  
ORDER #: \_\_\_\_\_ REFERENCE MODEL #: 215TTFWD16047  
CONN. DIAGRAM: 005010.01 CAT #: #VALUE!  
OUTLINE: SS88794-1240 CUSTOMER PART #: \_\_\_\_\_  
WINDING: K2154513 NONE 3 MOUNTING: F3  
SPEED: \_\_\_\_\_

### TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
10	7.5	1800	1760	215TC	TEFC	TFW	H	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60/50	208-230/460#200/400	14-26.4/13.2&30/15.1	LINE OR INVERTER	CONT	F	1.15	40	3300

F.L. EFF	91.7	3/4 LD EFF	91.7	1/2 LD EFF	91.0	GTD EFF	90.2	ELECT. TYPE	SQ CAGE INV RATED
F.L. PF	77.5	3/4 LD PF	69.6	1/2 LD PF	57.2				

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)	
29.9 LB-FT	81.0	76.0 LB-FT 254%	90.0 LB-FT 301%	65	

@ 3 FT.	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
62 dBA	71 dBA	1.10 LB-FT²	50 LB-FT²	20 SEC.	2	150 LB.

### \*\*\* SUPPLEMENTAL INFORMATION \*\*\*

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	NONE	BLUE (ENAMEL)

BEARINGS	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE ODE						
BALL BALL	POLYREX EM	T	NONE	NONE	AISI 1045 (C-240)	ROLLED STEEL
6309 6206						

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0.584	0.505	1.764	2.136	36.032	0.150	ODE

* N O T E S *		INVERTER TORQUE: CONSTANT 10:1 INV. HP SPEED RANGE: 1.5 X BASE SPEED
	ENCODER: NONE NONE NONE	NONE PPR

PREPARED BY: FAREEDA DUDEKULA DATE: 9/12/2018	BRAKE: NONE NONE NONE	NONE
	FT-LB: NA	
	VOLTAGE: NONE	HZ:
	UL: V-INS, CONST UL REC	

FORM: 3531 REV\_4 2/27/06

## Data Sheet

Date: 12/3/2018

Customer: \_\_\_\_\_

Attention: \_\_\_\_\_

Submitted by: FAREEDA DUDEKULA



215TTFWD16047

Submittal

Data @ 460 V

## Motor Load Data

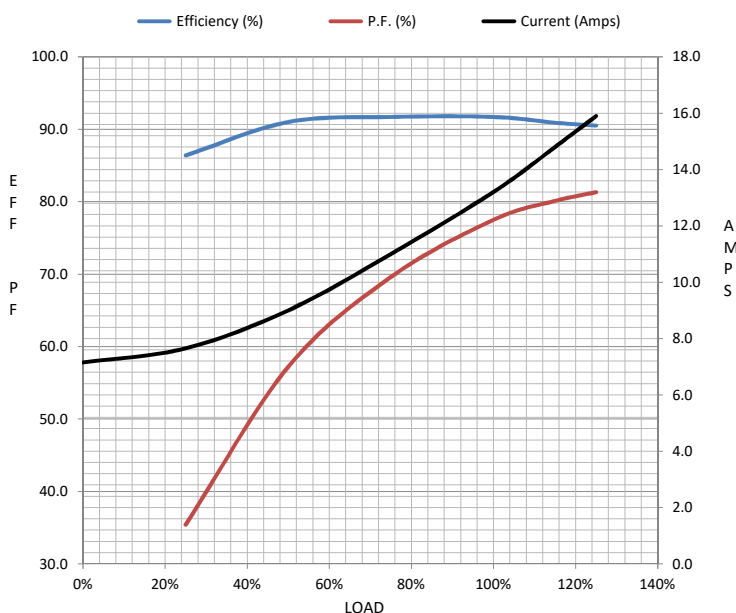
Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	7.2	7.7	9.0	11.0	13.2	14.8	15.9	81.0	
Torque (ft-lb)	0.00	7.3	14.8	22.3	29.9	34.5	37.6	76.0	
RPM	1800	1790	1780	1770	1760	1,754	1747	0	
Efficiency (%)		86.4	91.0	91.7	91.7	90.9	90.5		
P.F. (%)	4.8	35.4	57.2	69.6	77.5	80.1	81.3	42.0	

## Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1575	1760	1800
Current (Amps)	81.0	78.0	51.0	13.2	7.2
Torque (ft-lb)	76.0	70.0	90.0	29.9	0.00

## Information Block

HP	10.0			
Sync. RPM	1800			
Frame	215			
Enclosure	TEFC			
Construction	TFR			
Voltage	208-230/460#200/400 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	K2154513 NONE			
Sound Pressure @ 1M	62 dBA			
VFD Rating	CONSTANT 10:1			
Outline Dwg	SS88794-1240			
Conn. Diag	005010.01			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
0.5840	0.5050	1.7640	2.1360	36.0320



## Speed -Torque Curve

