

# PRODUCT INFORMATION PACKET

Model No: 811621.00

Catalog No: 811621.00

Speed Ratio Motors, TENV, 3 HP, 3 Ph, 60 Hz, 230/460 V, 1160 RPM, 213TC Frame



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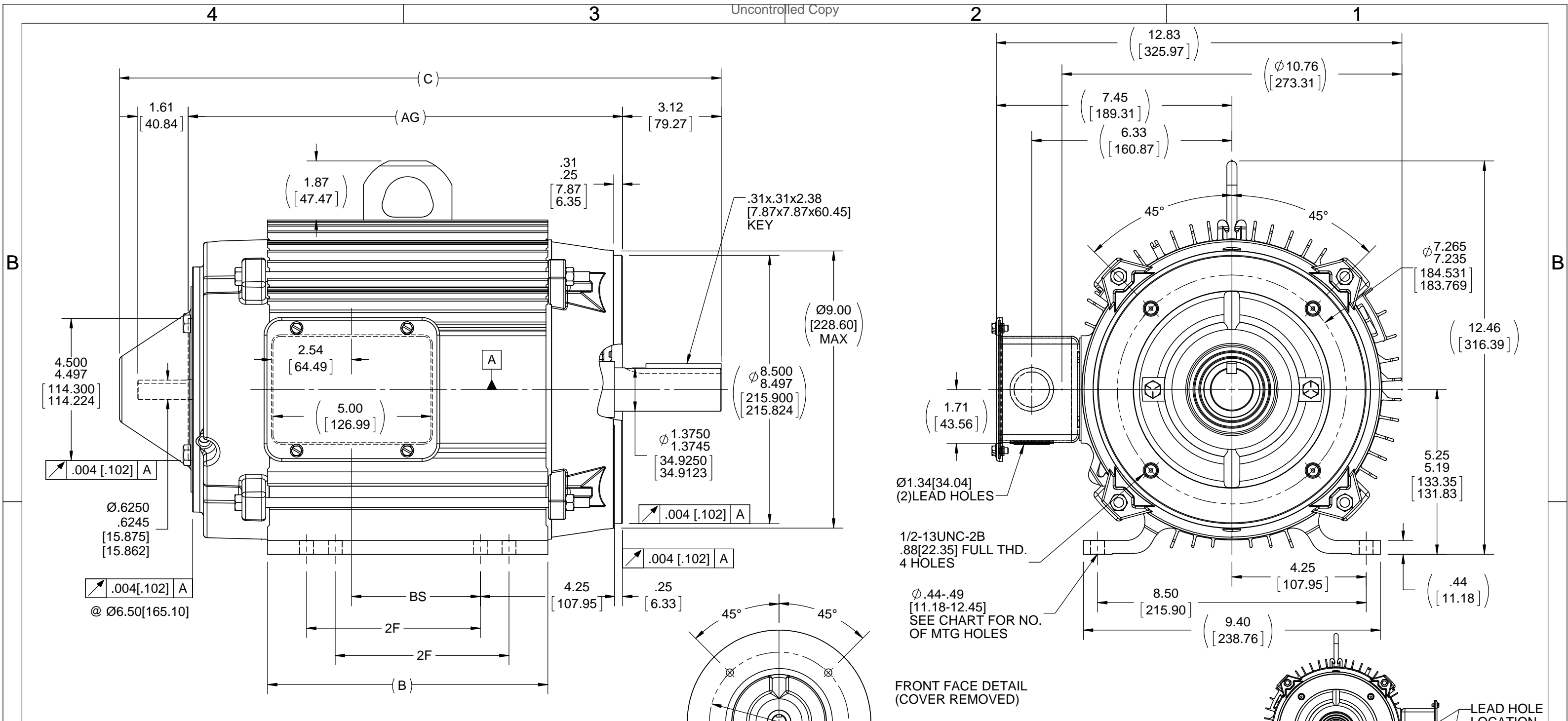
**Nameplate Specifications**

Output HP	<b>3 Hp</b>	Output KW	<b>2.2 kW</b>
Frequency	<b>60 Hz</b>	Voltage	<b>230/460 V</b>
Current	<b>9.4/4.7 A</b>	Speed	<b>1160 rpm</b>
Service Factor	<b>1</b>	Phase	<b>3</b>
Efficiency	<b>82.5 %</b>	Power Factor	<b>72.5</b>
Duty	<b>Continuous</b>	Insulation Class	<b>F</b>
Design Code	<b>INV</b>	KVA Code	<b>K</b>
Frame	<b>213TC</b>	Enclosure	<b>Totally Enclosed Non Ventilated</b>
Thermal Protection	<b>No Protection</b>	Ambient Temperature	<b>40 °C</b>
Drive End Bearing Size	<b>6309</b>	Opp Drive End Bearing Size	<b>6206</b>
UL	<b>Recognized</b>	CSA	<b>Y</b>
CE	<b>Y</b>	IP Code	<b>43</b>
Number of Speeds	<b>1</b>		

**Technical Specifications**

Electrical Type	<b>Squirrel Cage Inverter Duty</b>	Starting Method	<b>Inverter Only</b>
Poles	<b>6</b>	Rotation	<b>Reversible</b>
Resistance Main	<b>3.45 Ohms</b>	Mounting	<b>Rigid Base</b>
Motor Orientation	<b>Horizontal</b>	Drive End Bearing	<b>Ball</b>
Opp Drive End Bearing	<b>Ball</b>	Frame Material	<b>Aluminum</b>
Shaft Type	<b>T</b>	Overall Length	<b>19.04 in</b>
Frame Length	<b>8.75 in</b>	Shaft Diameter	<b>1.375 in</b>
Shaft Extension	<b>3.37 in</b>	Assembly/Box Mounting	<b>F1/F2 CAPABLE</b>
Inverter Load	<b>CONSTANT 1000:1</b>		
Outline Drawing	<b>SS330216-875</b>	Connection Drawing	<b>EE7308T-LE</b>





- NOTES:
1. BOX CAN BE ROTATED IN 180° STEPS.
  2. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.
  3. SEE CHART FOR F2 CAPABILITY. IF YES, BOS CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°

DASH	FRAME	B	C	AG	2F	BS	F2 CAPABLE	NO. OF MTG HOLES
875	213	8.87 [225.30]	19.04 [483.62]	13.75 [349.25]	5.50 [139.70]	4.08 [103.63]	YES	8

DRAWING REVISION D	REVISION BY W. JOERGER	DATE 05-24-2017
ECO ECO-0124253	APPROVED BY E. HEIL	DATE 05-24-2017
ECO DESCRIPTION CHANGED TO CORRECT DRAWING FORMAT		
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TOLERANCES UNLESS OTHERWISE SPECIFIED:

DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±7° 30"
.XX	±0.03	[±0.76]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	

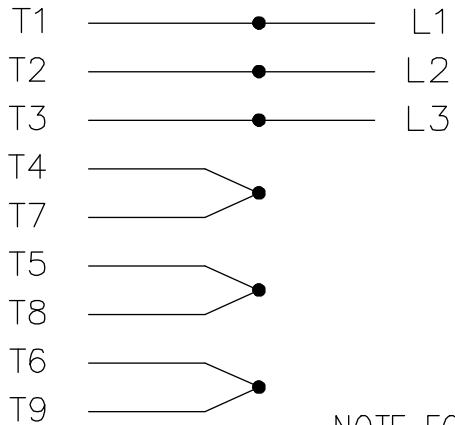
REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45°  
 CORNER FILLETS: R.02 [0.51]  
 MACHINED SURFACES: 200 INCH/mm 5.1

DRAWN BY RWR	DATE 06-15-2007
APPROVED BY GK	DATE 06-15-2007
REFERENCE	
THIRD ANGLE PROJECTION	

<b>REGAL</b> ™ Regal Beloit America, Inc.	
DESCRIPTION <b>OUTLINE</b> 210 FR.-TENV-DBL. C'FACE	
MATERIAL	PROCESS/FINISH
SIZE <b>B</b>	DRAWING NUMBER <b>SS330216</b>
	SHEET 1 OF 1

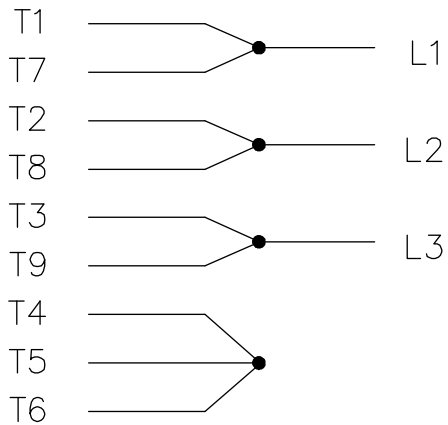
THREE PHASE  
DUAL VOLTAGE MOTOR

HIGH VOLTAGE

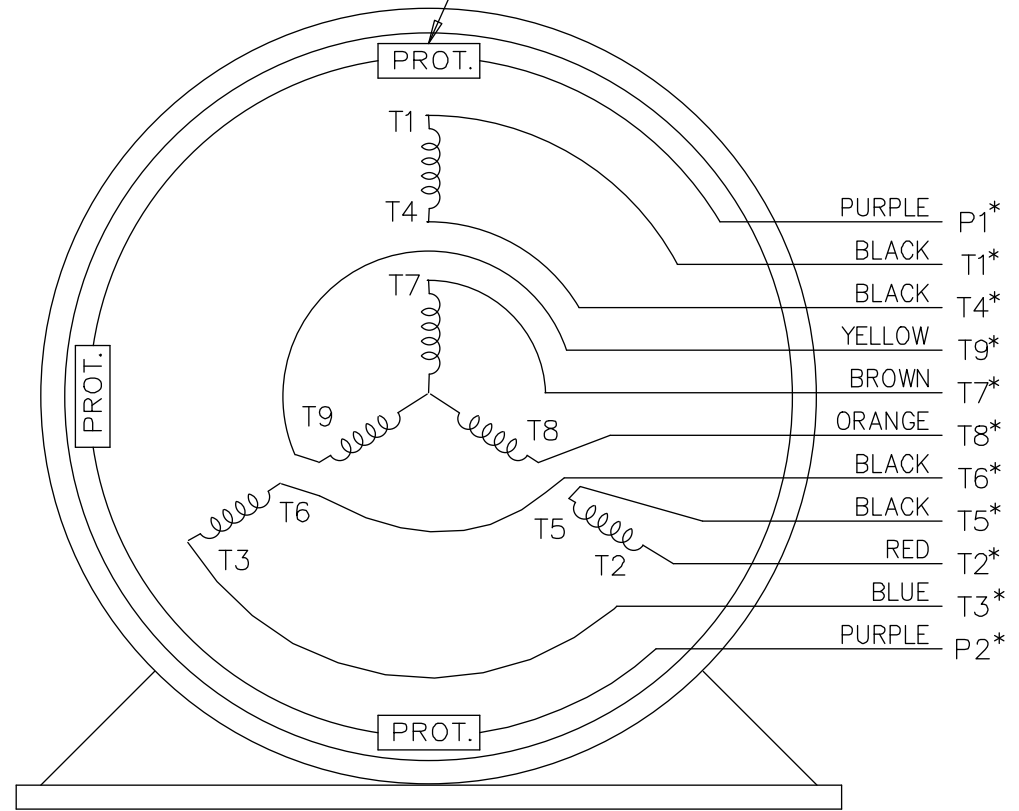


NOTE FOR FACTORY USE ONLY:  
 TO SURGE TEST FOR COMMON CONNECT:  
 HIGH VOLT: CONNECT P1 TO T1  
 THEN P2 TO L1  
 LOW VOLT: CONNECT P1 TO T1 & T7,  
 THEN P2 TO L1

LOW VOLTAGE



THREMO-PROTECTORS  
CONNECTED IN SERIES.



VIEW OF TERMINAL END

\* USE LEADS AS PER PLANT STANDARD IRRWSPECTIVE OF THEIR COLOUR.

NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED		FINISH	DRAWING NO.	PAGE OF	REV.	
					DEC.	INCHES					
05	ADDED * NOTE PER ECN # 26921	UD 01-30-2013	JD	DEC.	INCHES						
04	ADDED COLORS TO "T & P" LEADS CN 40494	MSG 08-08-2006	ML	.X	±.1						
03	RE-ISSUE	NJS 04-21-2004	JET	.XX	±.02						
02	REDRAWN	TAT 04-20-2004	ML	.XXX	±.005						
01	NEW DRAWING CN 34708	TJB 05-08-2002	ML	.XXXX	±.0005						
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							DIST LB-WP-LE				



ELECTRIC MOTORS  
GEARMOTORS  
AND DRIVES

TITLE CONNECTION DIAGRAM  
3 PHASE - DUAL VOLTAGE MOTOR

DRAWN	TJB	05-07-2002
CHK	ML	05-08-2002
APPD	TB	05-08-2002
SCALE	1=1	
REF		
FMF		
PREV		



1051 CHEYENNE AVE.  
GRAFTON, WI 53024  
PH. 262-277-8810

DATA VOLTS: 460

**CERTIFICATION DATA SHEET**

CONN. DIAGRAM: EE7308T-LE  
OUTLINE: SS330216-875  
WINDING: K213667

CAT #: 811621.00

NONE 6

**TYPICAL MOTOR PERFORMANCE DATA**

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
3	2.2	1200	1158	213TC	TENV	TTL	K	INF

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	9.4/4.7	INVERTER ONLY	CONT	F	1.15	40	3300

F.L. EFF	82.5	3/4 LD EFF	81.5	1/2 LD EFF	78.5	GTD EFF	ELECT. TYPE
F.L. PF	72.5	3/4 LD PF	64.0	1/2 LD PF	51.0	80.0	SQ CAGE INV DUTY

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (° C)
13.6 LB-FT	33.0	34.5 LB-FT 254%	49.0 LB-FT 360%	90

PRESSURE @ 3	SOUND	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
60 dBA	69 dBA		0.60 LB-FT²	0 LB-FT²	0 SEC.	0	130 LB.

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

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	BRAKE OR ENCODER	RIGID	HORIZONTAL	NO	NONE	NO	NONE	WATTS AVER

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

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
TSTATS (N/C)	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
2.469	2.308	6.508	4.125	83.91	0.150	ODE

* N O T E S *	INVERTER TORQUE: CONSTANT 1000:1 INV. HP SPEED RANGE: 2.0 X BASE SPEED					
	ENCODER: NORTHSTAR ST56 NONE NONE PPR					
	BRAKE: NONE NONE NONE					
	FT-LB: NA VOLTAGE: NONE HZ:					
	UL: Y-(LEESON UL REC)					

DATE: 9/10/2018

Data Sheet

Date: 9/10/2018

811621.00



Data @ **460 V**

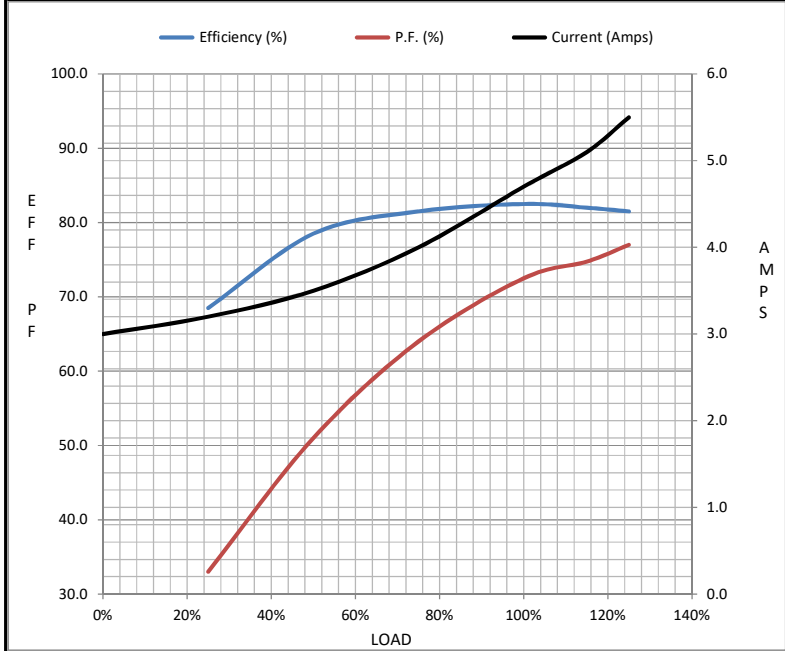
Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	3.0	3.2	3.5	4.0	4.7	5.1	5.5	33.0
Torque (ft-lb)	0.00	3.3	6.7	10.0	13.6	15.4	17.2	34.5
RPM	1200	1188	1180	1170	1158	1,153	1145	0
Efficiency (%)		68.5	78.5	81.5	82.5	82.0	81.5	
P.F. (%)	10.5	33.0	51.0	64.0	72.5	74.8	77.0	49.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1000	1158	1200
Current (Amps)	33.0	30.0	21.5	4.7	3.0
Torque (ft-lb)	34.5	31.0	49.0	13.6	0.00

Information Block				
HP	3.0			
Sync. RPM	1200			
Frame	213			
Enclosure	TENV			
Construction	TTL			
Voltage	230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	K			
Service Factor	1.0			
Temp Rise @ FL	90 ° C			
Duty	CONT			
Ambient	40 ° C			
Elevation	1,000 feet			
Rotor/Shaft wk <sup>2</sup>	0.60 Lb-Ft <sup>2</sup>			
Ref Wdg	K213667 NONE			
Sound Pressure @ 1M	60 dBA			
VFD Rating	CONSTANT 1000:1			
Outline Dwg	SS330216-875			
Conn. Diag	EE7308T-LE			
Additional Specifications:				
0				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
2.4690	2.3080	6.5080	4.1250	83.9100



Speed - Torque Curve

